



Grumman Road Private Industrial Landfill

Port Wentworth, Georgia

PERMIT #: 025-061D(LI)

Chatham County

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

The logo for Atlantic Coast Consulting, Inc., featuring the letters "ACC" in a white, stylized, cursive font.

ATLANTIC COAST
CONSULTING, INC.

PROFESSIONAL CERTIFICATION

This *2023 Annual Groundwater Monitoring and Corrective Action Report*, Grumman Road Private Industrial Landfill has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

ATLANTIC COAST CONSULTING, INC.



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SUMMARY

This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2022 through June 2023 for Georgia Power Company (Georgia Power) Grumman Road Private Industrial Landfill (GRL). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power.

GRL (the Site) is located on Gulfstream Road, in Chatham County, Georgia, approximately 0.8 miles east of Savannah/Hilton Head International Airport and 1.3 miles west of the city of Port Wentworth. GRL received coal combustion residuals (CCR) from Georgia Power – Plant Kraft and operated under Georgia Environmental Protection Division (GA EPD) solid waste handling permit number 025-061D(LI). GRL is comprised of four cells or parcels: Parcel A [originally operated under permit number 025-034D(LI)], B1, B2, and B3.



Grumman Road Private Industrial Landfill

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III and IV parameters to meet the requirements of the GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) and 40 Code of Federal Regulations (CFR) § 257.95. Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and July 2018.

Based on Site groundwater conditions, Georgia Power submitted a notification for the implementation of assessment monitoring under GA EPD Rule 391-3-4-.10(6)(a) on November 13, 2019. An Assessment of Corrective Measures (ACM) was initiated on July 9, 2020 based on the requirements of GA EPD Rule 391-3-4-.10(6)(a) which incorporates United States Environmental Protection Agency (USEPA) CCR Rule (40 CFR Part 257, Subpart D) by reference. Georgia Power submitted an ACM report on December 4, 2020 pursuant to GA EPD Rule 391-3-4-.10(6)(a) (Anchor 2020). The 2020 ACM supersedes previous documents submitted for the Site under the existing GA EPD Permit No. 025-061D(LI) (SCS 2013; ACC 2017, 2019).

During the 2023 annual reporting period, ACC completed groundwater sampling events in August 2022 and January 2023. Groundwater samples were submitted to GEL Laboratories, LLC (GEL) for analysis. Per the CCR Rule, groundwater results for August 2022 and January

2023 were evaluated in accordance with the certified statistical methods. That evaluation identified statistically significant values of Appendix III¹ constituents above background and statistically significant levels (SSLs) of Appendix IV² parameters above groundwater protection standards (GWPS), as summarized below.

Appendix III Parameter	August 2022	January 2023
Calcium	GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21	GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21
Chloride	GWC-17	GWC-17
Fluoride	GWC-17	GWC-17
pH	GWC-12, GWC-15	GWC-12, GWC-15
Sulfate	GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21	GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21
Appendix IV Parameter ³	August 2022	January 2023
Arsenic	GWC-15, GWC-16, GWC-20	GWC-15, GWC-16, GWC-20
Molybdenum	GWC-16, GWC-20	GWC-16, GWC-20

Based on review of the statistical results completed for the groundwater monitoring and corrective action program from July 2022 through June 2023, the Site will continue assessment monitoring and groundwater remedy selection. Georgia Power will continue routine groundwater monitoring and reporting at the Site, and reports will be posted to the website and provided to GA EPD. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on July 31, 2023, under separate cover.

¹ Appendix III: Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).

² Appendix IV: Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226+228, selenium, and thallium.

³ An SSL parameter is determined by comparing the confidence intervals developed to either the constituent's maximum contaminant level (MCL), if available, the USEPA Rule Specified Level, if no MCL is available, or the calculated background interwell prediction limit.

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1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted during the second half of 2022 and the first half of 2023 at Georgia Power Company's Grumman Road Private Industrial Landfill (GRL). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D.

To comply with GA EPD's Rule 391-3-4-.10, a permit application package for GRL was submitted to GA EPD in November 2018 and is currently under review. To meet the requirements of GA EPD Rule 391-3-4-.10(6), Appendix III and IV parameters listed in 40 CFR § 257 were incorporated into the routine groundwater monitoring program through a minor modification in August 2017. Semiannual reporting is completed pursuant to GA EPD Rule 391-3-4-.10(6)(c). This report documents groundwater activities conducted from July 2022 through June 2023.

Georgia Power submitted an Assessment of Corrective Measures (ACM) report in December 2020 pursuant to GA EPD Rule 391-3-4-.10(6)(a) (Anchor 2020). The 2020 ACM supersedes previous documents submitted for the Site under the existing GA EPD Permit No. 025-061D(LI) [Southern Company Services (SCS) 2013; ACC 2017, 2019]. The ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic and molybdenum in groundwater at statistically significant levels (SSLs) at GRL.

1.1 Site Description and Background

GRL is located on Gulfstream Road, in Chatham County, Georgia, approximately 0.8 miles east of Savannah/Hilton Head International Airport and 1.3 miles west of the city of Port Wentworth. GRL occupies approximately 33 acres. The Site ceased accepting CCR prior to October 19, 2015 and is therefore not subject to Federal monitoring requirements. GRL received CCR from Georgia Power – Plant Kraft and operated under GA EPD solid waste handling permit number 025-061D(LI). GRL is comprised of four cells or parcels: Parcel A [originally operated under permit number 025-034D(LI)], B1, B2, and B3. Closure of parcels B1, B2, and B3 was completed after CCR disposal ceased. Capping of the last remaining uncapped portion of Parcel A has been completed and was documented to GA EPD in a submittal dated November 27, 2019. Isolated areas of ongoing CCR removal near site utility structures are underway and should be completed in 2024.

GRL is adjacent to two other permitted solid-waste disposal facilities. The closed Clifton Rental Company, Inc., Landfill (Clifton Landfill; Permit No. 025-030D(L)) is located east of the Site, hydraulically upgradient and cross gradient of the Site. The active Savannah Regional Industrial Landfill (SRIL; Permit No. 025-072D(L)), operated by Republic Services, Inc., is located south of the Site and hydraulically downgradient of both Clifton Landfill and GRL. Figure 1, Site Location Map, depicts the location of GRL relative to the surrounding area. Figure 2, Well Location Map, depicts the general configuration of GRL and the location of the monitoring wells.

1.2 Regional Geology and Hydrogeologic Setting

GRL is underlain by Atlantic Coastal Plain Physiographic Province strata consisting of unconsolidated to consolidated layers of sand, silt, and clay and semi-consolidated to dense layers of limestone and dolomite (Clarke et al, 2010). These sediments constitute three major

aquifer systems, which are, from shallow to deep, the surficial aquifer system, the Brunswick aquifer system, and the Floridan aquifer system. In the Atlantic Coastal Plain, the surficial aquifer system consists of Miocene and younger interlayered sand, silt, clay, and thin limestone beds (Clarke et al, 2010). The surficial aquifer system is unconfined and generally at a depth less than 80 feet below ground surface.

The surficial aquifer is underlain by a confining unit that separates it from the Brunswick aquifer. The confining unit consists of silty clay and dense thin, phosphatic Miocene limestone. The Oligocene to Miocene Brunswick aquifer consists of two water-bearing zones. The upper Brunswick and lower Brunswick aquifers are separated by a low permeability, sandy phosphatic clay confining unit. The Brunswick aquifer is separated from the Upper Floridan aquifer with the Upper Confining unit and a non-water bearing limestone (NWBL) layer. The Floridan aquifer is confined by the overlying clay and NWBL layers.

1.3 Site Geology and Hydrogeologic Setting

The sediments immediately underlying the Site are part of the regional surficial aquifer system described previously and consist of variable interbedded sands, silts, and clay comprising a near-surface aquifer system (SCS, 1998). Though complex with subtle distinctions, approximately 50 feet of the near-surface aquifer system (soil) can be divided into four units as described below:

- Upper Sands and Topsoil
- Unit 1 Uppermost Aquifer: Silty Fine Sand
- Unit 2 Low Permeability Zone: Interbedded Sand, Silt, and Clay
- Unit 3 Lower Sand Aquifer: Silty and/or Clayey Fine to Medium Sand

Unit 1 comprises the water-bearing soil unit monitored at the Site and has a thickness ranging from approximately 22 to 28 feet across GRL. Although Units 1 through 3 are classified as the surficial aquifer system, layers of lower permeability may be present in the surficial aquifer system (Clarke, Hacke, and Peck 1990; SCS 1998). Generally, groundwater in the near-surface aquifer system flows from north to south at GRL but is influenced by topography. Groundwater elevations observed across the Site and adjacent landfills suggest that hydraulic communication exists between Units 1, 2, and 3. Unit 2 has a lower permeability than Units 1 and 3 and locally may act as an impediment to downward migration, creating perched water within Unit 1 or impeding migration within the near-surface aquifer system. Unit 2 does not appear to be continuous across the Site such that it creates distinct groundwater flow systems. The geologic and hydrogeologic conditions at GRL were described in detail in the ACM report (Anchor 2020).

1.4 Groundwater Monitoring System

A groundwater monitoring plan was submitted in November 1999 and approved by GA EPD in January 2000. Pursuant to GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.91, a comprehensive monitoring system was designed to monitor groundwater passing the waste boundary of GRL within the uppermost aquifer. Wells were located to serve as upgradient, sidegradient, and downgradient monitoring points based on groundwater flow direction (Table 1A, Detection Monitoring Well Summary). Additional existing locations are presented in Table 1B, Assessment Well and Piezometer Summary.

As part of the assessment monitoring program, assessment wells (formerly known as “delineation monitoring wells”) were installed in December 2020 and January 2021. Pursuant to GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.95(g)(1)(iv), the wells, classified as

assessment wells, will be sampled in addition to the compliance monitoring wells as part of the ongoing assessment groundwater monitoring program.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed at the Site from July 2022 through June 2023 (the reporting period) and discusses any change in status of the monitoring program.

2.1 Monitoring Well Installation/Maintenance

There were no changes to the groundwater monitoring system during the current reporting period; the detection monitoring system remained the same as in the previous reporting year and is shown in Figure 2.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). Well inspection checklists completed during the August 2022 and January 2023 semiannual sampling events are included in Appendix A, Laboratory Analytical and Field Sampling Reports. The documentation was performed under the direction of a professional geologist registered in the State of Georgia.

On March 22, 2023, the groundwater monitoring network and property boundary were resurveyed by Gunnin Land Surveying, LLC. The vertical and horizontal data for the site wells have been revised accordingly, and the survey data for the groundwater monitoring network is included in Appendix B, Survey Data.

2.2 Assessment Monitoring Program

Georgia Power has initiated an assessment monitoring program for CCR Appendix IV constituents. A notification for the implementation of assessment monitoring under GA EPD Rule 391-3-4-.10(6) was submitted on November 13, 2019. The facility had previously implemented an assessment monitoring program for an Appendix II metal (arsenic) included in its state permit. Currently identified SSLs of Appendix IV constituents exceeding their respective groundwater protection standards (GWPS) at GRL are arsenic at GWC-15, GWC-16, and GWC-20 and molybdenum in GWC-16 and GWC-20.

Table 2, Groundwater Sampling Event Summary, presents a summary of the groundwater sampling events completed at the Site during the reporting period. Semiannual assessment monitoring events were completed in August 2022 and January 2023. Groundwater samples were collected for the state-specific list of Appendix I/II metals specified in the permit and all Appendix III and Appendix IV constituents. A summary of the analytes required by Appendix III, Appendix IV, and the existing permit is provided in Table 3, Summary of Groundwater Monitoring Parameters. Samples were collected from each well in the detection monitoring system, as well as three assessment wells, shown on Figure 2.

Details of these events and analytical results are discussed in Section 3, while the statistical results are discussed in Section 4. Results of sampling activities conducted during the reporting period are presented in Appendix A.

2.3 Assessment of Corrective Measures

Based on statistical analysis of assessment monitoring results presented in the 2020 Annual Groundwater Monitoring and Corrective Action Report, a Notice of Assessment of Corrective Measures was placed in the operating record on July 9, 2020 for the State CCR Rule. An ACM for arsenic was previously established under GA EPD Rule 391-3-4-.14. An ACM completed by Anchor QEA, LLC in December 2020 (Anchor, 2020) under GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.96 supersedes the previous ACM and incorporates arsenic and an additional Appendix IV constituent, molybdenum. In lieu of a *Semiannual Remedy Selection and Design Progress Report* for this period, a *Draft Remedy Selection Report* was submitted for GA EPD review on July 31, 2023 under separate cover.

2.4 Additional Sampling

As summarized in previous reporting, an active above-ground leachate seep has been observed on aerial imagery on the north side of the Clifton Landfill since approximately 2009. The seepage flows onto the Site near GWA-7. Samples of the leachate seepage were collected on the Site near GWA-7 during the January 2023 sampling event. The laboratory reports are included in Appendix A. An attempt was made to sample the leachate seepage on the Site near GWA-7 during the August 2022 sampling event, but no flow was observed.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe the methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater elevations are recorded from the certified detection well system, assessment wells, and piezometers at GRL. Groundwater elevations recorded during the monitoring events are summarized in Tables 4A and 4B, Summary of Groundwater Elevations – August 2022 and January 2023, respectively. Groundwater elevation data were used to develop Figures 3A and 3B, August 2022 Potentiometric Surface Map and January 2023 Potentiometric Surface Map, respectively. Following resurvey of the Site groundwater wells in March 2023, the data from the August 2022 monitoring event have been adjusted to utilize the new vertical datum; therefore, Table 4A and Figure 3A are revised from what was presented in the 2022 *Semiannual Groundwater Monitoring and Corrective Action Report* (ACC, 2023). A potentiometric high exists near well GWA-7 in the northern portion of the Site and groundwater flows semi-radially from this high. In the southern portion of the Site, groundwater flows to the south and southeast. The groundwater flow pattern observed during the monitoring event is consistent with historical patterns.

The groundwater flow velocity at GRL was calculated using a derivation of Darcy's Law.

Specifically:

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where:} \quad \begin{array}{l} v = \text{groundwater velocity} \\ K = \text{hydraulic conductivity} \\ dh/dl = \text{hydraulic gradient} \\ P_e = \text{effective porosity} \end{array}$$

The groundwater flow velocity was calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll, 1986; USEPA, 1989; Freeze and Cherry, 1979). The groundwater flow velocity has been calculated and is tabulated on Tables 5A and 5B, Groundwater Flow Velocity Calculations – August 2022 and January 2023, respectively. As noted above, vertical datum from the March 2023 resurvey was utilized to adjust the flow velocity calculations shown on Table 5A. The calculated maximum flow velocity was 0.32 feet per day during the August 2022 event and 0.31 feet per day during the January 2023 event.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using a peristaltic pump. Tubing was lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). Peristaltic pump samples were collected using new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll or Aqua Troll (In-Situ field instruments) was used to monitor and record field water quality parameters (pH, specific conductance, oxidation-reduction potential [ORP], dissolved oxygen [DO], and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH.
- $\pm 10\%$ for specific conductance.
- $\pm 10\%$ for dissolved oxygen or 0.2 milligrams per liter (mg/L), whichever is greater where $DO > 0.5$ mg/L. No criterion applies if $DO < 0.5$ mg/L.
- Turbidity measurements less than 5 nephelometric turbidity units (NTU), or measured between 5 and 10 NTU following three additional hours of purging.

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories, LLC (GEL) of Charleston, South Carolina following chain-of-custody protocol. Stabilization logs and equipment calibration forms for each well during the reporting period are included in Appendix A.

3.3 Laboratory Analyses

Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Analytical data collected in the monitoring events during the reporting period are summarized in Table 6A, Summary of Groundwater Analytical Data – August 2022, Table 6B, Summary of Groundwater Analytical Data – January 2023, Table 6C, Summary of Groundwater Anion and Cation Data – January 2023, Table 6D, Summary of Analytical Data from the Clifton Seep – January 2023, and Table 6E, Summary of Geochemistry Data from the Clifton Seep – January 2023.

Laboratory analyses were performed by GEL. GEL is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, GEL is certified to perform analysis by the State of Georgia.

Laboratory reports and chain-of-custody records for the monitoring event are presented in Appendix A.

3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of one QA/QC sample per every 10 groundwater monitoring samples. Equipment blanks (where non-dedicated sampling equipment is used) and duplicate samples were collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). The data are considered usable for meeting project objectives and the results are considered valid.

The initial lab analyses of antimony data in GWC-17 and radium data in GWB-5R, GWC-9, GWC-11, and GWC-21 collected in January 2023 were anomalous with historical data, and reanalyses were performed by the laboratory. After data quality review of both datasets, the reanalysis data are considered more representative. Based on comparisons with duplicate data, the original data are considered outliers, and the reanalysis data are used (see laboratory data validation reports in Appendix A).

4.0 STATISTICAL ANALYSIS

The statistical method used at GRL was developed by Groundwater Stats Consulting, LLC (GSC), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, USEPA 530/ R-09-007 (USEPA, 2009).

Statistical analysis of the reporting period groundwater monitoring data was performed by GSC following the appropriate certified statistical methodology for GRL. Sanitas groundwater statistical software was used to screen the data and perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations.

Appendix I and Appendix III statistical analysis was performed to determine if groundwater has returned to background levels. Appendix II and Appendix IV constituents were evaluated to determine if concentrations statistically exceeded the established GWPS.

A summary of the statistical methodology used at GRL for routine groundwater monitoring is provided in Table 7, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix C, Statistical Analysis Reports, and summarized in the following sections.

4.1 Appendix I and III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix I and III parameters. Interwell PLs are constructed using pooled data from upgradient wells GWA-7 and GWA-8 to establish a background limit for an individual

constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix I or III constituent reported in a downgradient groundwater compliance monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample verifies the initial exceedance. If the resample result is less than its relevant PL, the initial exceedance is not verified.

4.2 Appendix II and IV Statistical Methods

Appendix II constituents and Appendix IV constituents were sampled during the semiannual assessment sampling event. To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix II and IV parameters in each downgradient well. Those confidence intervals are compared to the respective GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If there is an exceedance of the established standard, an SSL exceedance is identified. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data points are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to non-routine (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing numbers of analytical data points.

USEPA revised the Federal CCR Rule on July 30, 2018, updating the GWPS for cobalt, lead, lithium, and molybdenum. USEPA's updated GWPS were incorporated by reference into GA EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022. As described in 40 CFR § 257.95(h)(1-3), GWPS are established as follows:

- (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; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix II and Appendix IV constituents and are presented in Tables 8A and 8B, Summary of Background Levels and Groundwater Protection Standards – August 2022 and January 2023, respectively.

4.3 Statistical Analyses Results

Based on review of the Appendix I and III statistical analyses presented in Appendix C, constituents have not returned to background levels and assessment monitoring should continue pursuant to GA EPD Rule 391-3-4-.10(6)(a).

Based on a review of the statistical analysis presented in Appendix C, the following parameters were found to statistically exceed the GWPS for the annual reporting period:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWC-16 and GWC-20

Based on GA EPD guidance, groundwater trends at wells with SSLs were further evaluated by GSC using the Sen's Slope/Mann Kendall trend tests. The full report generated from the analyses is provided in Appendix C. Statistically significant trends were identified for the following well/constituent pairs:

- An increasing trend of arsenic was identified at GWC-15.
- No statistically significant trends were identified in GWC-16 and GWC-20.

The SSL results are consistent with those presented in the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* (ACC, 2023). An ACM report was submitted in December 2020 for arsenic and molybdenum, per GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.96, and potential corrective measures are under evaluation.

5.0 NATURE AND EXTENT

Wells MW-23D, MW-24D, and MW-25D were installed for vertical delineation of arsenic and molybdenum at wells GWC-20, GWC-16, and GWC-15, respectively.

Data from the August 2022 semiannual monitoring event at SRIL show that arsenic concentrations in groundwater samples collected from monitoring wells GWA-6 and GWA-12B located along the northern boundary of SRIL, due south of the Site, are less than the analytical method reporting limit (0.01 mg/L; CEC, 2022). These results support the findings from the Transport Modeling Report submitted to GA EPD in November 2021 and suggest the arsenic impacts have not migrated far off-site (Anchor QEA, 2021). Molybdenum, however, is not a routine parameter analyzed at SRIL.

Horizontal delineation of molybdenum to the south is dependent on securing access from adjacent property owners. Per GA EPD guidance, where “denial of access prevents the installation of off-site assessment wells, a USEPA approved fate and transport model analysis may be used to delineate the limit of the contaminant plume” (GA EPD, 2018). Because off-site access has not been secured, a transport model was developed to complete horizontal delineation (Anchor QEA, 2021). Based on the Transport Modeling Report, molybdenum concentrations in groundwater above the GWPS that originate from the Site have likely migrated a short distance beneath SRIL but have not reached the southern boundary of SRIL. The fate and transport model developed to delineate the extent of molybdenum was accepted by GA EPD in a letter dated May 16, 2023 (GA EPD 2023). SRIL representatives were notified of the arsenic and molybdenum detections in neighbor notification correspondence dated September 25, 2020.

6.0 MONITORING PROGRAM STATUS

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor the groundwater at the Site in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of arsenic and molybdenum. Pursuant to 40 CFR § 257.94(e)(1), Georgia Power will continue assessment monitoring in accordance with 40 CFR § 257.95. Pursuant to 40 CFR § 257.95(g)(1)(iv), the assessment wells will continue to be sampled as part of the ongoing semiannual assessment groundwater monitoring program.

6.1 Assessment of Corrective Measures

During the annual reporting period, a *Draft Remedy Selection Report* was prepared in lieu of the *Semiannual Remedy Selection and Design Progress Report* previously included in the appendix

of this annual groundwater monitoring and corrective action report. The *Draft Remedy Selection Report* was submitted under separate cover on July 31, 2023. The report summarizes:

- The current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Anchor, 2020);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and,
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Annual Groundwater Monitoring and Corrective Action Report* was prepared to fulfill the requirements of GA EPD Rule 391-3-4-.10(6)(c). Statistical evaluations of the groundwater monitoring data identified the presence of SSLs of arsenic in three wells (GWC-15, GWC-16, and GWC-20) and molybdenum in two wells (GWC-16 and GWC-20) for the August 2022 and January 2023 events. The arsenic and molybdenum SSLs are vertically delineated below the GWPS by assessment wells MW-23D through MW-25D. Arsenic is horizontally delineated below the GWPS by upgradient SRIL wells GWA-6 and GWA-12B, just south of the Site. Based on the GA EPD-approved Transport Modeling Report, molybdenum is horizontally delineated to below the GWPS a short distance beneath SRIL but has not reached the southern boundary of SRIL. Georgia Power will continue to monitor groundwater under the assessment monitoring program as ongoing assessment of corrective measures are evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on July 31, 2023, under separate cover.

The next semiannual assessment sampling event is planned to begin August 2023. The semiannual assessment monitoring event will include sampling and analysis of all Appendix III and IV constituents along with the state-specific list of Appendix I/II metals specified in the permit. Progress made regarding the remedy selection will be documented in the next groundwater monitoring and corrective action report.

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TABLES

**Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report**

Table 1A
Detection Monitoring Well Summary
Grumman Road Landfill
Chatham County, Georgia

Well ID	Installation Date (mm/dd/yyyy)	Northing	Easting	Top of Casing Elevation (NAVD88)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Hydraulic Location
GWA-7	07/29/1998	780887.38	960560.31	46.58	21.20	25.38	16.20	30.38	Upgradient
GWA-8	07/29/1998	781167.00	960460.57	46.20	20.80	25.40	15.80	30.40	Upgradient
GWB-4R	10/09/2018	779975.18	960777.56	49.04	27.00	22.04	16.76	32.28	Sidegradient
GWB-5R	10/09/2018	780293.66	960693.28	47.21	26.50	20.71	16.51	30.70	Sidegradient
GWB-6R	10/08/2018	780572.76	960617.28	46.99	22.70	24.29	12.69	34.30	Sidegradient
GWC-1	03/10/1997	779573.38	960870.73	49.72	28.20	21.52	21.93	27.79	Downgradient
GWC-2	03/11/1997	779433.23	960360.53	51.22	32.73	18.49	26.73	24.49	Downgradient
GWC-9	07/24/1998	781006.70	959961.26	46.57	27.40	19.17	22.40	24.17	Downgradient
GWC-11	07/23/1998	780352.21	960122.47	48.81	22.60	26.21	17.60	31.21	Downgradient
GWC-12	07/22/1998	780098.49	960182.06	46.89	26.70	20.19	21.70	25.19	Downgradient
GWC-13	07/22/1998	779737.50	960276.20	47.68	23.80	23.88	18.80	28.88	Downgradient
GWC-14	07/22/1998	779112.24	960431.34	50.06	27.00	23.06	22.00	28.06	Downgradient
GWC-15	07/22/1998	778948.56	960666.68	47.36	26.80	20.56	21.80	25.56	Downgradient
GWC-16	07/21/1998	779034.89	960963.23	47.29	28.20	19.09	23.20	24.09	Downgradient
GWC-17	1998	781419.25	960048.28	43.60	23.50	20.10	18.20	25.40	Downgradient
GWC-20	05/07/2010	779293.82	960956.67	49.43	25.59	23.84	20.29	29.14	Downgradient
GWC-21	05/07/2010	779030.28	960948.11	47.18	24.54	22.64	19.24	27.94	Downgradient
GWC-22	05/07/2010	780712.09	960063.85	46.25	19.21	27.04	13.91	32.34	Downgradient

Notes:

1. Northings and Eastings are Georgia State Plane East Zone in feet relative to North American Datum 1983 (NAD83).
2. NAVD88 indicates feet North American Vertical Datum of 1988.
3. ft BTOC indicates feet below top of casing.
4. Elevations and coordinates were resurveyed on March 22, 2023.

Table 1B
Assessment Well and Piezometer Summary
Grumman Road Landfill
Chatham County, Georgia

Well ID	Installation Date (mm/dd/yyyy)	Northing	Easting	Top of Casing Elevation (NAVD88)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Purpose
GWC-10	07/24/1998	780703.08	960037.03	46.77	20.60	26.17	15.60	31.17	Piezometer
MW-23D	12/17/2020	779279.75	960955.66	49.46	63.30	-13.84	58.00	-8.54	Assessment
MW-24D	01/04/2021	779042.22	960971.12	47.86	66.30	-18.44	61.00	-13.14	Assessment
MW-25D	01/06/2021	778944.28	960654.43	47.67	70.20	-22.53	64.90	-17.23	Assessment
MW-26D	01/10/2021	779993.34	960774.89	48.72	69.90	-21.18	64.60	-15.88	Piezometer
MW-27D	01/08/2021	779558.89	960874.59	49.80	72.43	-22.63	67.13	-17.33	Piezometer

Notes:

1. Northings and Eastings are Georgia State Plane East Zone in feet relative to North American Datum 1983 (NAD83).
2. NAVD88 indicates feet North American Vertical Datum of 1988.
3. ft BTOC indicates feet below top of casing.
4. Elevations and coordinates were resurveyed on March 22, 2023.

Table 2
Groundwater Sampling Event Summary
Grumman Road Landfill
Chatham County, Georgia

Well	Hydraulic Location	Aug. 30-Sep. 1, 2022	Jan. 31-Feb. 2, 2023
Purpose of Sampling Event		Assessment	Assessment
GWA-7	Upgradient	X	X
GWA-8	Upgradient	X	X
GWB-4R	Sidegradient	X	X
GWB-5R	Sidegradient	X	X
GWB-6R	Sidegradient	X	X
GWC-1	Downgradient	X	X
GWC-2	Downgradient	X	X
GWC-9	Downgradient	X	X
GWC-11	Downgradient	X	X
GWC-12	Downgradient	X	X
GWC-13	Downgradient	X	X
GWC-14	Downgradient	X	X
GWC-15	Downgradient	X	X
GWC-16	Downgradient	X	X
GWC-17	Downgradient	X	X
GWC-20	Downgradient	X	X
GWC-21	Downgradient	X	X
GWC-22	Downgradient	X	X
MW-23D	Assessment	X	X
MW-24D	Assessment	X	X
MW-25D	Assessment	X	X

Notes:

1. X indicates sample was collected.
2. Assessment Events included Appendix III and Appendix IV analytes.

Table 3
Summary of Groundwater Monitoring Parameters
Grumman Road Landfill
Chatham County, Georgia

Appendix III (40 CFR 257)	Appendix IV (40 CFR 257)	State Permit Appendix I and II Metals
Boron	Antimony	Antimony
Calcium	Arsenic	Arsenic
Chloride	Barium	Barium
Fluoride	Beryllium	Chromium
pH	Cadmium	Lead
Sulfate	Chromium	Selenium
TDS	Cobalt	Vanadium
	Fluoride	Zinc
	Lead	
	Lithium	
	Mercury	
	Molybdenum	
	Radium 226 and 228 combined	
	Selenium	
	Thallium	

Table 4A
Summary of Groundwater Elevations
August 2022
Grumman Road Landfill
Chatham County, Georgia

Well ID	Top of Casing Elevation (NAVD88)	Depth to Water (ft BTOC)	Groundwater Elevation (NAVD88)
GWA-7	46.58	5.94	40.64
GWA-8	46.20	6.91	39.29
GWB-4R	49.04	14.58	34.46
GWB-5R	47.21	9.52	37.69
GWB-6R	46.99	7.10	39.89
GWC-1	49.72	18.86	30.86
GWC-2	51.22	19.44	31.78
GWC-9	46.57	8.93	37.64
GWC-11	48.81	13.14	35.67
GWC-12	46.89	12.67	34.22
GWC-13	47.68	14.43	33.25
GWC-14	50.06	19.52	30.54
GWC-15	47.36	19.28	28.08
GWC-16	47.29	20.51	26.78
GWC-17	43.60	5.26	38.34
GWC-20	49.43	20.95	28.48
GWC-21	47.18	20.27	26.91
GWC-22	46.25	9.13	37.12
MW-23D	49.46	22.84	26.62
MW-24D	47.86	22.65	25.21
MW-25D	47.67	20.90	26.77
MW-26D	48.72	19.87	28.85
MW-27D	49.80	21.55	28.25

Notes:

1. ft BTOC indicates feet below top of casing.
2. NAVD88 indicates feet North American Vertical Datum of 1988.
3. Depths to water measured on August 29, 2022.
4. Elevations and coordinates were resurveyed on March 22, 2023.

Table 4B
Summary of Groundwater Elevations
January 2023
Grumman Road Landfill
Chatham County, Georgia

Well ID	Top of Casing Elevation (NAVD88)	Depth to Water (ft BTOC)	Groundwater Elevation (NAVD88)
GWA-7	46.58	6.37	40.21
GWA-8	46.20	7.65	38.55
GWB-4R	49.04	14.86	34.18
GWB-5R	47.21	9.93	37.28
GWB-6R	46.99	7.51	39.48
GWC-1	49.72	19.11	30.61
GWC-2	51.22	19.73	31.49
GWC-9	46.57	9.11	37.46
GWC-11	48.81	13.63	35.18
GWC-12	46.89	13.14	33.75
GWC-13	47.68	14.92	32.76
GWC-14	50.06	19.57	30.49
GWC-15	47.36	19.30	28.06
GWC-16	47.29	20.50	26.79
GWC-17	43.60	4.98	38.62
GWC-20	49.43	21.10	28.33
GWC-21	47.18	20.41	26.77
GWC-22	46.25	9.01	37.24
MW-23D	49.46	23.06	26.40
MW-24D	47.86	22.78	25.08
MW-25D	47.67	21.07	26.60
MW-26D	48.72	20.23	28.49
MW-27D	49.80	21.84	27.96

Notes:

1. ft BTOC indicates feet below top of casing.
2. NAVD88 indicates feet North American Vertical Datum of 1988.
3. Depths to water measured on January 31, 2023.
4. Elevations and coordinates were resurveyed on March 22, 2023.

Table 5A
Groundwater Flow Velocity Calculations
August 2022
Grumman Road Landfill
Chatham County, Georgia

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where: } v = \text{groundwater velocity}$$

K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K = 2.7E-03 cm/sec 7.60 ft/day	See note 1.
dh/dl _{max} = 13.11/1576 ft/ft 0.008 unitless	hydraulic gradient from GWB-6R to GWC-16
dh/dl _{min} = 2.3/737 ft/ft 0.003 unitless	hydraulic gradient from GWA-7 to GWC-17
P _e = 0.20	See note 2.

$$v_{\max} = \frac{(7.60)(0.0083)}{0.20} \quad v_{\max} = 0.32 \text{ ft/day}$$

$$v_{\min} = \frac{(7.60)(0.0031)}{0.20} \quad v_{\min} = 0.12 \text{ ft/day}$$

Notes

- (1) Grumman Road Monofill Groundwater Monitoring Plan (SCS, 1999)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 5B
Groundwater Flow Velocity Calculations
January 2023
Grumman Road Landfill
Chatham County, Georgia

Equation

$$v = \frac{K (dh/dl)}{P_e}$$

where: v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K = 2.7E-03 cm/sec 7.60 ft/day	See note 1.
dh/dl _{max} = 12.69/1576 ft/ft 0.008 unitless	hydraulic gradient from GWB-6R to GWC-16
dh/dl _{min} = 1.59/737 ft/ft 0.002 unitless	hydraulic gradient from GWA-7 to GWC-17
P _e = 0.20	See note 2.

$$v_{max} = \frac{(7.60)(0.008)}{0.20}$$

$$v_{max} = 0.31 \text{ ft/day}$$

$$v_{min} = \frac{(7.60)(0.002)}{0.20}$$

$$v_{min} = 0.08 \text{ ft/day}$$

Notes

- (1) Grumman Road Monofill Groundwater Monitoring Plan (SCS, 1999)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 6A
Summary of Groundwater Analytical Data
August 2022
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		8/30/2022	8/30/2022	8/30/2022	8/30/2022	8/30/2022	9/1/2022	9/1/2022	9/1/2022
APPENDIX III	Boron	5.72	0.152	4.95	4.66	7.13	0.728	0.0204	0.0187
	Calcium	3.56	15.0	79.3	70.3	81.8	46.9	0.236	5.00
	Chloride	74.4	9.93	65.0	76.8	52.0	9.17	6.59	17.6
	Fluoride	0.0391 J	0.0759 J	<0.0330	0.0428 J	<0.0330	<0.0330	<0.0330	0.0783 J
	pH	5.98	4.58	5.67	5.22	5.55	5.80	4.73	4.60
	Sulfate	10.6	77.4	379	403	978	44.0	10.3	28.7
	TDS	1340	154	882	886	1810	228	9.00 J	85.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.00321 J	<0.00200	0.00490 J	0.00253 J	0.00716	0.00568	<0.00200	<0.00200
	Barium	0.133	0.0512	0.134	0.0510	0.0266	0.0583	0.0508	0.151
	Beryllium	0.000219 J	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	Cadmium	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	0.0129	<0.00300	<0.00300	<0.00300	0.00356 J	<0.00300	<0.00300	<0.00300
	Cobalt	0.00134	0.000420 J	0.00198	0.00401	0.0476	<0.000300	<0.000300	0.000930 J
	Lead	0.00220	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	0.0175	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	0.0000870 J	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.000453 J	<0.000200	0.154	<0.000200	0.000649 J	0.0343	<0.000200	<0.000200
	Radium	2.75	1.97	5.57	3.36	3.20	0.911 U	2.09	2.35
	Selenium	0.00630	<0.00150	0.00265 J	<0.00150	0.00277 J	0.00252 J	<0.00150	<0.00150
Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	
See Note 8	Vanadium	0.110	0.00372 J	0.00943 J	0.0138 J	0.0192 J	0.00748 J	0.00450 J	0.00514 J
	Zinc	0.0110 J	<0.00330	<0.00330	<0.00330	0.0132 J	0.00578 J	0.0125 J	0.0163 J

Notes:

- Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
- Radium data are for Radium 226 & Radium 228 (combined).
- < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
- J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
- Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6A
Summary of Groundwater Analytical Data
August 2022
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		8/31/2022	8/30/2022	8/31/2022	8/30/2022	8/31/2022	9/1/2022	8/31/2022	8/30/2022
APPENDIX III	Boron	1.65	8.21	0.231	0.0460	0.719	15.9	2.51	8.14
	Calcium	115	70.8	2.54	144	135	255	102	193
	Chloride	110	58.4	6.69	26.7	4.83	57.2	694	24.4
	Fluoride	<0.0330	0.273	0.0510 J	<0.0330	<0.0330	0.0374 J	0.442	<0.0330
	pH	4.85	3.92	4.76	5.86	6.57	5.37	4.33	6.01
	Sulfate	653	415	29.0	410	88.5	1140	721	606
	TDS	1240	713	55.0	720	530	1720	2050	1210
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	<0.00200	<0.00200	<0.00200	<0.00200	0.259	0.0987	<0.00200	0.465
	Barium	0.115	0.0275	0.0379	0.0773	0.0550	0.165	0.0375	0.210
	Beryllium	<0.000200	0.000663	<0.000200	<0.000200	<0.000200	<0.000200	0.00258	<0.000200
	Cadmium	0.000431 J	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Cobalt	0.000646 J	0.000786 J	<0.000300	<0.000300	<0.000300	<0.000300	0.00358	<0.000300
	Lead	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	0.00688 J	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.000512 J	0.000205 J	<0.000200	0.0133	0.0786	0.154	0.00252	0.309
	Radium	6.34	3.37	1.90	2.62	2.88	1.64 U	2.72	4.95
	Selenium	0.00344 J	<0.00150	<0.00150	0.00544	0.00192 J	0.00334 J	<0.00150	0.00192 J
Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	
See Note 8	Vanadium	0.00481 J	0.00949 J	<0.00330	0.00933 J	0.00476 J	0.00650 J	0.00599 J	0.00647 J
	Zinc	<0.00330	0.0262	0.0266	<0.00330	0.00395 J	0.0119 J	0.00680 J	0.0171 J

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
8. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6A
Summary of Groundwater Analytical Data
August 2022
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID				
		GWC-21	GWC-22	MW-23D	MW-24D	MW-25D
		8/30/2022	8/31/2022	8/31/2022	9/1/2022	8/31/2022
APPENDIX III	Boron	5.08	0.271	0.0283	0.0303	0.0166
	Calcium	131	23.2	10.3	2.75	3.38
	Chloride	29.4	51.2	7.84	6.30	6.60
	Fluoride	<0.0330	<0.0330	0.0791 J	<0.0330	0.187
	pH	5.76	4.68	6.06	6.08	6.29
	Sulfate	451	45.3	54.6	0.682	1.12
	TDS	807	163	143	20.0	44.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.0271	<0.00200	<0.00200	<0.00200	<0.00200
	Barium	0.191	0.0741	0.0765	0.0267	0.0216
	Beryllium	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	Cadmium	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Cobalt	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Lead	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.0490	<0.000200	<0.000200	0.00174	0.000863 J
	Radium	2.56	3.07	1.79	3.54	0.645 U
	Selenium	0.00648	<0.00150	<0.00150	<0.00150	<0.00150
	Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600
See Note 8	Vanadium	0.00715 J	0.00396 J	<0.00330	0.00414 J	<0.00330
	Zinc	0.00814 J	<0.00330	0.0106 J	0.0102 J	0.0161 J

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
8. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6B
Summary of Groundwater Analytical Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		1/31/2023	1/31/2023	2/2/2023	2/1/2023	2/1/2023	2/2/2023	2/2/2023	2/1/2023
APPENDIX III	Boron	5.72	0.177	5.35	6.19	8.23	0.599	0.0220	0.0186
	Calcium	3.33	14.8	91.8	38.3	60.4	35.2	0.143 J	4.44
	Chloride	70.1	11.0	82.4	172	51.6	6.47	5.42	18.8
	Fluoride	0.0510 J	0.0842 J	<0.165	0.0546 J	<0.0330	<0.0330	<0.0330	0.0994 J
	pH	6.02	4.60	5.99	5.81	5.54	5.78	4.60	4.57
	Sulfate	7.88	79.3	337	190	842	35.3	11.9	25.2
	TDS	1230	122	1180	1240	1570	166	<2.38	59.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.00250 J	<0.00200	0.00556	0.00295 J	0.00420 J	0.00433 J	<0.00200	<0.00200
	Barium	0.126	0.0499	0.101	0.101	0.0233	0.0466	0.0461	0.128
	Beryllium	<0.000200	0.000206 J	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000215 J
	Cadmium	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	0.0112	<0.00300	0.00502 J	0.00655 J	0.00365 J	<0.00300	<0.00300	<0.00300
	Cobalt	0.00114	0.000378 J	0.00937	0.00291	0.0228	<0.000300	<0.000300	0.000830 J
	Lead	0.00126 J	0.0104	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	0.0184	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.000364 J	<0.000200	0.199	0.000690 J	0.000553 J	0.0433	<0.000200	<0.000200
	Radium	3.86	1.96 U	5.79	3.28	4.93	3.54	1.11 U	4.17
	Selenium	0.00443 J	<0.00150	0.00466 J	0.00187 J	0.00182 J	0.00220 J	<0.00150	<0.00150
Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	
See Note 8	Vanadium	0.106	<0.00330	0.0210	0.0255	0.0201	0.00497 J	<0.00330	<0.00330
	Zinc	0.00457 J	<0.00330	<0.00330	<0.00330	0.0121 J	<0.00330	<0.00330	<0.00330

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
8. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6B
Summary of Groundwater Analytical Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		2/1/2023	2/1/2023	2/1/2023	2/2/2023	2/2/2023	2/1/2023	2/1/2023	2/1/2023
APPENDIX III	Boron	4.49	10.1	0.208	0.0451	0.679	17.1	1.83	11.9
	Calcium	187	67.5	2.89	137	131	294	86.8	183
	Chloride	138	64.5	6.17	18.2	4.69	47.1	470	15.3
	Fluoride	<0.165	0.231	0.0423 J	<0.0330	<0.0330	0.0702 J	0.604	<0.0330
	pH	4.71	3.93	4.86	5.98	6.65	5.23	4.74	6.01
	Sulfate	1090	527	34.5	220	34.3	1160	547	596
	TDS	2010	694	37.0	566	440	2010	1470	2290
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00286 J	<0.00100
	Arsenic	<0.00200	<0.00200	<0.00200	0.00261 J	0.207	0.115	<0.00200	0.389
	Barium	0.146	0.0256	0.0367	0.0617	0.0557	0.163	0.0262	0.194
	Beryllium	<0.000200	0.000634	<0.000200	<0.000200	<0.000200	<0.000200	0.00206	<0.000200
	Cadmium	0.000926 J	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	0.00503 J
	Cobalt	0.00118	0.000753 J	<0.000300	<0.000300	<0.000300	<0.000300	0.00265	<0.000300
	Lead	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	0.00532 J	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.000613 J	<0.000200	<0.000200	0.0167	0.0748	0.136	0.00484	0.384
	Radium	5.87	2.07	2.85	1.31 U	3.14	3.17	2.83	5.77
	Selenium	0.00333 J	<0.00150	<0.00150	0.00350 J	<0.00150	<0.00150	<0.00150	<0.00150
	Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600
See Note 8	Vanadium	0.00373 J	0.00560 J	<0.00330	0.00594 J	0.00453 J	0.00361 J	0.00500 J	0.00526 J
	Zinc	<0.00330	0.00334 J	0.0250	<0.00330	<0.00330	<0.00330	0.00583 J	<0.00330

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
8. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6B
Summary of Groundwater Analytical Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID				
		GWC-21	GWC-22	MW-23D	MW-24D	MW-25D
		2/2/2023	2/2/2023	2/1/2023	2/2/2023	2/2/2023
APPENDIX III	Boron	5.15	0.302	0.0272	0.0218	0.0181
	Calcium	123	21.6	8.46	2.50	3.09
	Chloride	23.3	18.2	7.71	6.04	6.24
	Fluoride	<0.0330	<0.0330	0.0586 J	<0.0330	0.152
	pH	5.71	4.63	6.16	6.23	6.19
	Sulfate	447	71.6	40.3	<0.133	<0.133
	TDS	775	113	103	21.0	23.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.0323	<0.00200	<0.00200	<0.00200	<0.00200
	Barium	0.196	0.0456	0.0600	0.0268	0.0253
	Beryllium	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	Cadmium	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Cobalt	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Lead	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.0352	0.000334 J	<0.000200	0.00113	<0.000200
	Radium	3.73	4.13	2.44	2.52 U	2.98
	Selenium	0.00542	<0.00150	<0.00150	<0.00150	<0.00150
Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600	
See Note 8	Vanadium	0.00537 J	<0.00330	<0.00330	<0.00330	<0.00330
	Zinc	<0.00330	<0.00330	0.0121 J	<0.00330	<0.00330

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
8. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6C
Summary of Groundwater Anion and Cation Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		1/31/2023	1/31/2023	2/2/2023	2/1/2023	2/1/2023	2/2/2023	2/2/2023	2/1/2023
Anions	Alkalinity	672	11.2	380	424	105	85.6	3.00 J	<1.45
	Bicarbonate Alkalinity	672	11.2	380	424	105	85.6	3.00 J	<1.45
	Carbonate Alkalinity	<3.63	<1.45	<3.63	<3.63	<3.63	<1.45	<1.45	<1.45
	Chloride	70.1	11.0	82.4	172	51.6	6.47	5.42	18.8
	Sulfate	7.88	79.3	337	190	842	35.3	11.9	25.2
Cations	Aluminum	6.59	0.891	0.545	1.28	0.934	0.239	0.0939	0.347
	Calcium	3.33	14.8	91.8	38.3	60.4	35.2	0.143 J	4.44
	Iron	2.67	4.69	10.0	12.2	7.93	0.115	0.670	4.53
	Magnesium	0.779	2.98	27.6	16.7	10.8	5.42	0.730	2.24
	Manganese	0.0152	0.0203	0.290	0.312	1.12	0.0563	0.00776	0.0301
	Potassium	5.76	2.59	26.8	14.3	38.0	7.95	0.568	1.43
	Sodium	387	17.3	244	352	396	13.5	7.80	13.3
	Sulfide	<0.165	0.0466 J	<0.165	<0.165	<0.165	<0.165	<0.0330	<0.0330
Total Dissolved Solids		1230	122	1180	1240	1570	166	<2.38	59.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.

Table 6C
Summary of Groundwater Anion and Cation Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		2/1/2023	2/1/2023	2/1/2023	2/2/2023	2/2/2023	2/1/2023	2/1/2023	2/1/2023
Anions	Alkalinity	12.8	<1.45	8.40	211	348	54.8	17.0	234
	Bicarbonate Alkalinity	12.8	<1.45	8.40	211	348	54.8	17.0	234
	Carbonate Alkalinity	<1.45	<1.45	<1.45	<1.45	<1.45	<1.45	<1.45	<1.45
	Chloride	138	64.5	6.17	18.2	4.69	47.1	470	15.3
	Sulfate	1090	527	34.5	220	34.3	1160	547	596
Cations	Aluminum	0.775	10.3	0.256	<0.0193	0.100	0.860	11.3	0.136
	Calcium	187	67.5	2.89	137	131	294	86.8	183
	Iron	4.95	1.62	0.595	0.911	0.747	0.649	23.6	1.08
	Magnesium	87.4	22.2	7.63	29.1	17.1	90.5	68.0	70.2
	Manganese	0.0626	0.121	0.0152	0.582	0.158	0.218	0.255	0.146
	Potassium	42.5	12.5	2.49	3.47	11.7	41.7	8.22	21.5
	Sodium	256	79.5	3.39	20.6	6.38	134	300	46.9
	Sulfide	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330
Total Dissolved Solids		2010	694	37.0	566	440	2010	1470	2290

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.

Table 6C
Summary of Groundwater Anion and Cation Data
January 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID				
		GWC-21	GWC-22	MW-23D	MW-24D	MW-25D
		2/2/2023	2/2/2023	2/1/2023	2/2/2023	2/2/2023
Anions	Alkalinity	77.0	7.80	33.0	24.2	19.2
	Bicarbonate Alkalinity	77.0	7.80	33.0	24.2	19.2
	Carbonate Alkalinity	<1.45	<1.45	<1.45	<1.45	<1.45
	Chloride	23.3	18.2	7.71	6.04	6.24
	Sulfate	447	71.6	40.3	<0.133	<0.133
Cations	Aluminum	0.121	0.741	0.0528	0.0265 J	<0.0193
	Calcium	123	21.6	8.46	2.50	3.09
	Iron	0.216	0.340	3.90	2.92	1.46
	Magnesium	37.1	4.49	1.69	0.576	0.990
	Manganese	0.0858	0.0115	0.0780	0.0449	0.0271
	Potassium	18.3	6.25	2.33	1.33	1.13
	Sodium	54.8	9.61	25.4	8.52	6.50
	Sulfide	<0.0330	<0.0330	<0.0330	0.0623 J	<0.0330
Total Dissolved Solids		775	113	103	21.0	23.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.

Table 6D
Summary of Analytical Data from the Clifton Seep
January 2023
Grumman Road Landfill
Chatham County, Georgia

		Well ID
		Clifton Seep
Substance		2/2/2023
APPENDIX III	Boron	9.12
	Calcium	57.8
	Chloride	42.5
	Fluoride	0.277
	pH	8.27
	Sulfate	6.71
	TDS	1030
APPENDIX IV	Antimony	0.00532
	Arsenic	0.0173
	Barium	0.527
	Beryllium	<0.00100
	Cadmium	0.000346 J
	Chromium	0.0236 J
	Cobalt	0.00264 J
	Lead	0.0902
	Lithium	0.0699
	Mercury	<0.0000670
	Molybdenum	0.00384
	Radium	3.58
	Selenium	0.00167 J
	Thallium	<0.000600
See Note 8	Vanadium	0.0287 J
	Zinc	0.564

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. Appendix III = indicator parameters evaluated during Detection and Assessment Monitoring; Appendix IV = parameters included and evaluated during Assessment Monitoring.
7. Parameters required by Permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6E
Summary of Geochemistry Data from the Clifton Seep
January 2023
Grumman Road Landfill
Chatham County, Georgia

		Well ID
		Clifton Seep
Substance		2/2/2023
Anions	Alkalinity	722
	Bicarbonate Alkalinity	722
	Carbonate Alkalinity	<3.63
	Chloride	42.5
	Nitrate	<0.330
	Sulfate	6.71
Cations	Aluminum	13.8
	Calcium	57.8
	Iron	13.0
	Magnesium	25.1
	Manganese	0.144
	Potassium	60.2
	Sodium	280
	Sulfide	<0.0330
Nitrogen, Ammonia		1.49
Nitrogen, Total Kjeldahl		222
Total Dissolved Solids		1030
Total Organic Carbon		147

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).

**Table 7
Statistical Method Summary
Grumman Road Landfill
Chatham County, Georgia**

Statistical Method Summary		
Monitoring Well System	Upgradient Wells	GWA-7 and GWA-8
	Sidegradient Wells	GWB-4R, GWB-5R, and GWB-6R
	Downgradient Wells	GWC-1, GWC-2, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
CCR Monitoring Parameters	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
GA EPD Permit Metals	Appendix I (Detection Monitoring)	Antimony, Arsenic, Barium, Chromium, Lead, Selenium, Vanadium, and Zinc
	Appendix II (Assessment Monitoring)	Antimony, Arsenic, Barium, Chromium, Lead, Selenium, Vanadium, and Zinc
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits.

Table 8A
Summary of Background Levels and Groundwater Protection Standards
August 2022
Grumman Road Landfill
Chatham County, Georgia

Constituent	Site Background	MCL	CCR-Rule Specified	GWPS
Antimony	0.003	0.006	N/A	0.006
Arsenic	0.029	0.01	N/A	0.029
Barium	0.22	2	N/A	2
Beryllium	0.0017	0.004	N/A	0.004
Cadmium	0.001	0.005	N/A	0.005
Chromium	0.068	0.1	N/A	0.1
Cobalt	0.0102	N/A	0.006	0.0102
Fluoride	0.41	4	N/A	4
Lead	0.013	N/A	0.015	0.015
Lithium	0.03	N/A	0.04	0.04
Mercury	0.0002	0.002	N/A	0.002
Molybdenum	0.01	N/A	0.1	0.1
Radium	12.22	5	N/A	12.22
Selenium	0.044	0.05	N/A	0.05
Thallium	0.002	0.002	N/A	0.002
Vanadium	0.43	N/A	N/A	0.43
Zinc	0.16	N/A	N/A	0.16

Notes:

1. Site Background = Tolerance limits calculated from pooled upgradient well data through August 2022.
2. MCL = Maximum Contaminant Level, per GA EPD Rule 391-3-5-.18(1)(a).
3. GWPS = Groundwater protection standard, per GA EPD Rule 391-3-4-.10(6)(a).
4. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter (pCi/L).
5. CCR-Rule specified GWPS as stipulated in 40 CFR § 257.95(h)(1-3) and incorporated into GA EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022.
6. N/A = There is no established MCL, per GA EPD Rule 391-3-5-.18(1)(a).

Table 8B
Summary of Background Levels and Groundwater Protection Standards
January 2023
Grumman Road Landfill
Chatham County, Georgia

Constituent	Site Background	MCL	CCR-Rule Specified	GWPS
Antimony	0.003	0.006	N/A	0.006
Arsenic	0.029	0.01	N/A	0.029
Barium	0.17	2	N/A	2
Beryllium	0.0017	0.004	N/A	0.004
Cadmium	0.001	0.005	N/A	0.005
Chromium	0.068	0.1	N/A	0.1
Cobalt	0.01	N/A	0.006	0.01
Fluoride	0.49	4	N/A	4
Lead	0.013	N/A	0.015	0.015
Lithium	0.01	N/A	0.04	0.04
Mercury	0.0002	0.002	N/A	0.002
Molybdenum	0.0098	N/A	0.1	0.1
Radium	11.77	5	N/A	11.77
Selenium	0.044	0.05	N/A	0.05
Thallium	0.002	0.002	N/A	0.002
Vanadium	0.43	N/A	N/A	0.43
Zinc	0.16	N/A	N/A	0.16

Notes:

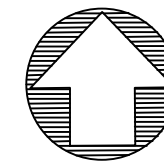
7. Site Background = Tolerance limits calculated from pooled upgradient well data through present.
8. MCL = Maximum Contaminant Level, per GA EPD Rule 391-3-5-.18(1)(a).
9. GWPS = Groundwater protection standard, per GA EPD Rule 391-3-4-.10(6)(a).
10. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter (pCi/L).
11. CCR-Rule specified GWPS as stipulated in 40 CFR § 257.95(h)(1-3) and incorporated into GA EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022.
12. N/A = There is no established MCL, per GA EPD Rule 391-3-5-.18(1)(a).

FIGURES

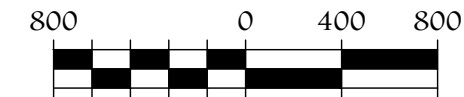
Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report



LOCATION IN THE STATE OF GEORGIA (NOT TO SCALE)



ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY

NOTES:

1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
2. AERIAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT

SITE LOCATION MAP

PROJECT NO. I054-116

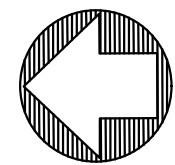
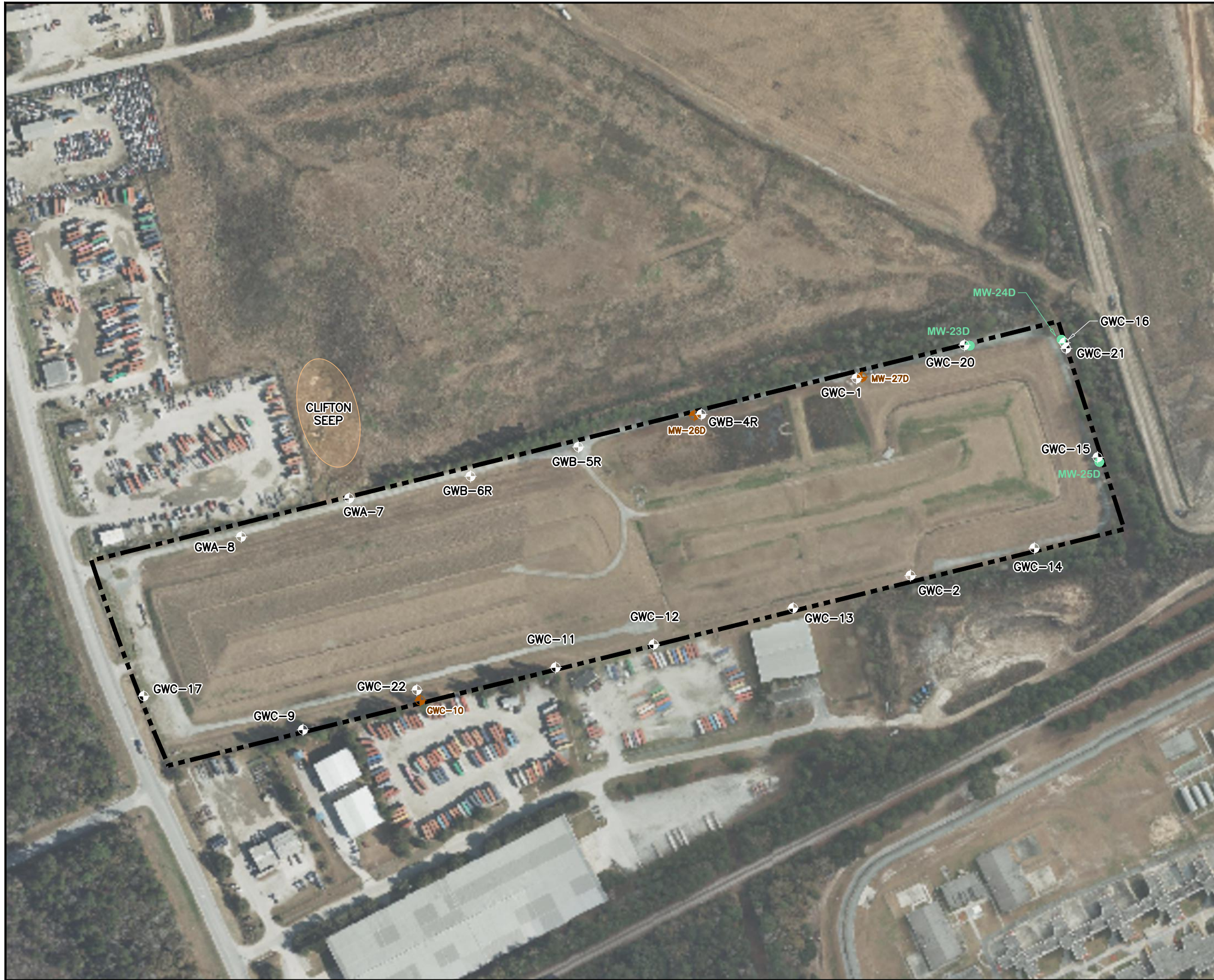
July 2023

DRAWN BY: MM

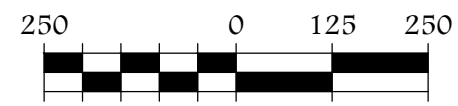
FIGURE:

CHECKED BY: AR

1



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY
	DETECTION MONITORING WELL
	PIEZOMETER
	ASSESSMENT WELL

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
 2. AERIAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT

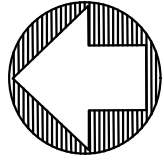



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL
2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT

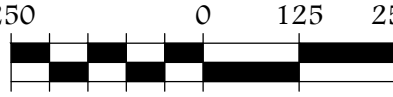
WELL LOCATION MAP

PROJECT NO. I054-116 July 2023

DRAWN BY:	MM	FIGURE:	2
CHECKED BY:	AR		


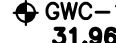








ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY
	DETECTION MONITORING WELL GROUNDWATER ELEVATION
	PIEZOMETER
	ASSESSMENT WELL
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
 2. AERIAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

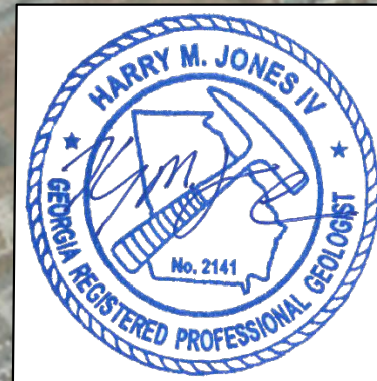
PROJECT

 Georgia Power

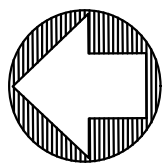
GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT

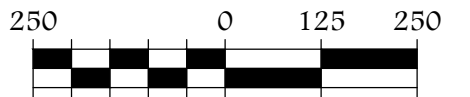
AUGUST 2022 POTENTIOMETRIC
SURFACE MAP



PROJECT NO. I054-116		July 2023
<u>DRAWN BY:</u>	MM	<u>FIGURE:</u> 3A
<u>CHECKED BY:</u>	AR	



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
--- (dashed black line)	PROPERTY BOUNDARY
⊕ GWC-1 31.96	DETECTION MONITORING WELL GROUNDWATER ELEVATION
⊕ GWC-10	PIEZOMETER
● MW-23D	ASSESSMENT WELL
36 (blue line)	GROUNDWATER ELEVATION CONTOUR
→ (blue arrow)	GROUNDWATER FLOW DIRECTION

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
 2. AERIAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL
2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT

JANUARY 2023 POTENTIOMETRIC
SURFACE MAP

PROJECT NO. I054-116 July 2023

DRAWN BY: MM

FIGURE:

CHECKED BY: AR

3B



APPENDICES

**Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report**

APPENDIX A

Laboratory Analytical and Field Sampling Reports

**Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report**

APPENDIX A

*Laboratory Analytical Reports
August 2022 Monitoring Event*



September 19, 2022

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Orders: 591891 and 591783


Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01, 2022 and September 02, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,


Adrian Melendrez for
Erin Trent
Project Manager

Purchase Order: GPC82177-0001
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 591891 GEL Work Order: 591891

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 591783 GEL Work Order: 591783

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-1	Project: GPCC00102
Sample ID: 591891001	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 13:19	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.80			SU			EOS1	09/01/22	1319	2312056	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.17	0.0670	0.200	mg/L		1	JLD1	09/03/22	2310	2312366	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		44.0	1.33	4.00	mg/L		10	JLD1	09/06/22	1437	2312366	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1123	2312733	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0046	2312380	5
Arsenic		0.00568	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0583	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	J	0.00252	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00748	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00578	0.00330	0.0200	mg/L	1.00	1					
Boron		0.728	0.0520	0.150	mg/L	1.00	10	PRB	09/14/22	1744	2312380	6
Molybdenum		0.0343	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2240	2312380	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		228	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-1 Project: GPCC00102
Sample ID: 591891001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-2	Project: GPCC00102
Sample ID: 591891002	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 14:25	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.73			SU			EOS1	09/01/22	1425	2312056	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.59	0.0670	0.200	mg/L		1	JLD1	09/03/22	2340	2312366	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		10.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1125	2312733	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0050	2312380	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0508	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		0.236	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00450	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0125	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0204	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1750	2312380	5
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2243	2312380	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	9.00	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-2 Project: GPCC00102
Sample ID: 591891002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-9	Project: GPCC00102
Sample ID: 591891003	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 09:24	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.60			SU			EOS1	09/01/22	0924	2312056	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0783	0.0330	0.100	mg/L	1		JLD1	09/04/22	0010	2312366	2
Chloride		17.6	0.335	1.00	mg/L	5		JLD1	09/06/22	1507	2312366	3
Sulfate		28.7	0.665	2.00	mg/L	5						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1126	2312733	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0053	2312380	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.151	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.00	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000930	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00514	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0163	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0187	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1752	2312380	6
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2247	2312380	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		85.0	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-9
Sample ID: 591891003
Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-16	Project: GPCC00102
Sample ID: 591891004	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 10:46	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.37			SU			EOS1	09/01/22	1046	2312056	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0374	0.0330	0.100	mg/L		1	JLD1	09/04/22	0040	2312366	2
Chloride		57.2	6.70	20.0	mg/L		100	JLD1	09/06/22	1636	2312366	3
Sulfate		1140	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1131	2312733	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0057	2312380	5
Arsenic		0.0987	0.00200	0.00500	mg/L	1.00	1					
Barium		0.165	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	J	0.00334	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00650	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0119	0.00330	0.0200	mg/L	1.00	1					
Calcium		255	0.800	2.00	mg/L	1.00	10	PRB	09/14/22	1754	2312380	6
Boron		15.9	0.520	1.50	mg/L	1.00	100	PRB	09/14/22	1756	2312380	7
Molybdenum		0.154	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2250	2312380	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1720	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-16 Project: GPCC00102
 Sample ID: 591891004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-24D	Project: GPCC00102
Sample ID: 591891005	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 11:59	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.08			SU			EOS1	09/01/22	1159	2312056	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.30	0.0670	0.200	mg/L		1	JLD1	09/04/22	0109	2312366	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		0.682	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1133	2312733	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0100	2312380	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0267	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.75	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00414	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0102	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0303	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1759	2312380	5
Molybdenum		0.00174	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2254	2312380	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		20.0	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-24D Project: GPCC00102
Sample ID: 591891005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-03	Project: GPCC00102
Sample ID: 591891006	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-SEP-22 12:00	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.46	0.0670	0.200	mg/L		1	JLD1	09/04/22	0139	2312366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.309	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1135	2312733	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0104	2312380	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0256	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.75	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00412	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0318	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0210	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1803	2312380	4
Molybdenum		0.00132	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2258	2312380	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		28.0	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1255	2312730

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-03 Project: GPCC00102
Sample ID: 591891006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	SW846 7470A		
3	SW846 3005A/6020B		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-03	Project: GPCC00102
Sample ID: 591891007	Client ID: GPCC001
Matrix: WQ	
Collect Date: 01-SEP-22 14:00	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.423	0.0670	0.200	mg/L		1	JLD1	09/04/22	0209	2312366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1137	2312733	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0108	2312380	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.150	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00408	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1805	2312380	4
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2301	2312380	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1255	2312730

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-03	Project: GPCC00102
Sample ID: 591891007	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	SW846 7470A		
3	SW846 3005A/6020B		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-06	Project: GPCC00102
Sample ID: 591891008	Client ID: GPCC001
Matrix: WQ	
Collect Date: 01-SEP-22 10:30	
Receive Date: 02-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.148	0.0670	0.200	mg/L		1	JLD1	09/04/22	0239	2312366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1138	2312733	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/14/22	0111	2312380	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00418	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	09/14/22	1807	2312380	4
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1	PRB	09/13/22	2305	2312380	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/08/22	1457	2313724	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PC1	09/06/22	0910	2312379
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1255	2312730

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-06 Project: GPCC00102
Sample ID: 591891008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	SW846 7470A		
3	SW846 3005A/6020B		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-12	Project: GPCC00102
Sample ID: 591783001	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 15:03	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.92			SU			EOS1	08/30/22	1503	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.273	0.0330	0.100	mg/L	1		JLD1	09/02/22	2142	2311815	2
Chloride		58.4	2.68	8.00	mg/L	40		JLD1	09/03/22	1414	2311815	3
Sulfate		415	5.32	16.0	mg/L	40						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	0952	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/12/22	2335	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0275	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000663	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000786	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000205	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00949	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0262	0.00330	0.0200	mg/L	1.00	1					
Boron		8.21	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1308	2311609	6
Calcium		70.8	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		713	2.38	10.0	mg/L			CH6	09/02/22	1143	2311939	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-12 Project: GPCC00102
Sample ID: 591783001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254	2312726		

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-13	Project: GPCC00102
Sample ID: 591783002	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 10:11	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.76			SU			EOS1	08/31/22	1011	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.69	0.0670	0.200	mg/L		1	JLD1	09/02/22	2314	2311815	2
Fluoride	J	0.0510	0.0330	0.100	mg/L		1					
Sulfate		29.0	0.266	0.800	mg/L		2	JLD1	09/03/22	1546	2311815	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1001	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0000	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0379	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.54	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0266	0.00330	0.0200	mg/L	1.00	1					
Boron		0.231	0.0260	0.0750	mg/L	1.00	5	PRB	09/13/22	1316	2311609	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		55.0	2.38	10.0	mg/L			CH6	09/02/22	1143	2311939	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-13	Project: GPCC00102
Sample ID: 591783002	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-14	Project: GPCC00102
Sample ID: 591783003	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 11:57	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.86			SU			EOS1	08/30/22	1157	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/02/22	2345	2311815	2
Chloride		26.7	2.68	8.00	mg/L		40	JLD1	09/03/22	1617	2311815	3
Sulfate		410	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1002	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0004	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0773	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0133	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00544	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00933	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Calcium		144	0.800	2.00	mg/L	1.00	10	PRB	09/13/22	1320	2311609	6
Boron		0.0460	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1318	2311609	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		720	2.38	10.0	mg/L			CH6	09/02/22	1143	2311939	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-14	Project: GPCC00102
Sample ID: 591783003	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-20	Project: GPCC00102
Sample ID: 591783004	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 13:23	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.01			SU			EOS1	08/30/22	1323	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/03/22	0016	2311815	2
Chloride		24.4	3.35	10.0	mg/L		50	JLD1	09/03/22	1648	2311815	3
Sulfate		606	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1004	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0007	2311609	5
Arsenic		0.465	0.00200	0.00500	mg/L	1.00	1					
Barium		0.210	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.309	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00192	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00647	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0171	0.00330	0.0200	mg/L	1.00	1					
Boron		8.14	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1326	2311609	6
Calcium		193	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1210	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

GEL LABORATORIES LLC

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Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-20 Project: GPCC00102
Sample ID: 591783004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-21	Project: GPCC00102
Sample ID: 591783005	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 17:25	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.76			SU			EOS1	08/30/22	1725	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L	1		JLD1	09/03/22	0047	2311815	2
Chloride		29.4	2.68	8.00	mg/L		40	JLD1	09/03/22	1718	2311815	3
Sulfate		451	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1010	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0011	2311609	5
Arsenic		0.0271	0.00200	0.00500	mg/L	1.00	1					
Barium		0.191	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0490	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00648	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00715	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00814	0.00330	0.0200	mg/L	1.00	1					
Boron		5.08	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1328	2311609	6
Calcium		131	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		807	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-21 Project: GPCC00102
Sample ID: 591783005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-25D	Project: GPCC00102
Sample ID: 591783006	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 11:58	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.29			SU			EOS1	08/31/22	1158	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.60	0.0670	0.200	mg/L		1	JLD1	09/03/22	0118	2311815	2
Fluoride		0.187	0.0330	0.100	mg/L		1					
Sulfate		1.12	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1012	2312729	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0015	2311609	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0216	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.38	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000863	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0161	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0166	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1330	2311609	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		44.0	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-25D Project: GPCC00102
Sample ID: 591783006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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SW846 7470A Prep EPA 7470A Mercury Prep Liquid RM4 09/06/22 1254 2312726

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-02	Project: GPCC00102
Sample ID: 591783007	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 12:00	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.69	0.0670	0.200	mg/L		1	JLD1	09/03/22	0250	2311815	1
Fluoride	J	0.0406	0.0330	0.100	mg/L		1					
Sulfate		29.3	0.266	0.800	mg/L		2	JLD1	09/03/22	1749	2311815	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1013	2312729	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0018	2311609	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0380	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.61	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0284	0.00330	0.0200	mg/L	1.00	1					
Boron		0.153	0.0260	0.0750	mg/L	1.00	5	PRB	09/13/22	1331	2311609	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		53.0	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1254	2312726

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-02	Project: GPCC00102
Sample ID: 591783007	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description	Analyst Comments									
1	EPA 300.0										
2	EPA 300.0										
3	SW846 7470A										
4	SW846 3005A/6020B										
5	SW846 3005A/6020B										
6	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-01	Project: GPCC00102
Sample ID: 591783008	Client ID: GPCC001
Matrix: WQ	
Collect Date: 30-AUG-22 16:30	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.299	0.0670	0.200	mg/L		1	JLD1	09/03/22	0321	2311815	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1015	2312729	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0022	2311609	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1333	2311609	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1254	2312726

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-01	Project: GPCC00102
Sample ID: 591783008	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description	Analyst Comments									
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-11	Project: GPCC00102
Sample ID: 591783009	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 15:45	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.85			SU			EOS1	08/31/22	1545	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L	1		JLD1	09/03/22	0352	2311815	2
Chloride		110	3.35	10.0	mg/L		50	JLD1	09/03/22	1820	2311815	3
Sulfate		653	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1017	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0025	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.115	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000431	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000646	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000512	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00344	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00481	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		1.65	0.104	0.300	mg/L	1.00	20	PRB	09/13/22	1335	2311609	6
Calcium		115	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1240	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-11 Project: GPCC00102
 Sample ID: 591783009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-23D	Project: GPCC00102
Sample ID: 591783010	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 16:18	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.06			SU			EOS1	08/31/22	1618	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.84	0.0670	0.200	mg/L	1		JLD1	09/03/22	0423	2311815	2
Fluoride	J	0.0791	0.0330	0.100	mg/L		1					
Sulfate		54.6	0.665	2.00	mg/L		5	JLD1	09/03/22	1851	2311815	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1018	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0029	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0765	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		10.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0106	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0283	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1337	2311609	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		143	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-23D Project: GPCC00102
Sample ID: 591783010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-8	Project: GPCC00102
Sample ID: 591783011	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 11:56	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.58			SU			EOS1	08/30/22	1156	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0759	0.0330	0.100	mg/L	1		JLD1	09/03/22	0454	2311815	2
Chloride		9.93	0.335	1.00	mg/L	5		JLD1	09/03/22	2024	2311815	3
Sulfate		77.4	0.665	2.00	mg/L	5						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1020	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0033	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0512	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000420	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00372	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.152	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1339	2311609	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		154	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-8 Project: GPCC00102
Sample ID: 591783011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-7	Project: GPCC00102
Sample ID: 591783012	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 09:35	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.98			SU			EOS1	08/30/22	0935	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0391	0.0330	0.100	mg/L	1		JLD1	09/03/22	0525	2311815	2
Sulfate		10.6	0.133	0.400	mg/L		1					
Chloride		74.4	1.34	4.00	mg/L		20	JLD1	09/03/22	2055	2311815	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1022	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0044	2311609	5
Arsenic	J	0.00321	0.00200	0.00500	mg/L	1.00	1					
Barium		0.133	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000219	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.56	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0129	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00134	0.000300	0.00100	mg/L	1.00	1					
Lead		0.00220	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000453	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00630	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.110	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0110	0.00330	0.0200	mg/L	1.00	1					
Boron		5.72	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1341	2311609	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1340	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-7 Project: GPCC00102
Sample ID: 591783012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-6R	Project: GPCC00102
Sample ID: 591783013	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 10:51	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.55			SU			EOS1	08/30/22	1051	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/03/22	0556	2311815	2
Chloride		52.0	6.70	20.0	mg/L		100	JLD1	09/03/22	2125	2311815	3
Sulfate		978	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1024	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0047	2311609	5
Arsenic		0.00716	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0266	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00356	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0476	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000649	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00277	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0192	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0132	0.00330	0.0200	mg/L	1.00	1					
Boron		7.13	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1347	2311609	6
Calcium		81.8	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1810	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-6R Project: GPCC00102
Sample ID: 591783013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-01	Project: GPCC00102
Sample ID: 591783014	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 12:00	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0806	0.0330	0.100	mg/L		1	JLD1	09/03/22	0728	2311815	1
Chloride		10.0	0.335	1.00	mg/L		5	JLD1	09/03/22	2258	2311815	2
Sulfate		78.4	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1025	2312729	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0051	2311609	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0512	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000445	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00381	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.169	0.0260	0.0750	mg/L	1.00	5	PRB	09/13/22	1349	2311609	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		171	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1254	2312726

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-01 Project: GPCC00102
Sample ID: 591783014 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-5R	Project: GPCC00102
Sample ID: 591783015	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 14:20	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.22			SU			EOS1	08/30/22	1420	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0428	0.0330	0.100	mg/L		1	JLD1	09/02/22	1050	2311967	2
Chloride		76.8	6.70	20.0	mg/L		100	JLD1	09/02/22	2247	2311967	3
Sulfate		403	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000870	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1030	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0054	2311609	5
Arsenic	J	0.00253	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0510	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00401	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0138	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		4.66	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1351	2311609	6
Calcium		70.3	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		886	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-5R Project: GPCC00102
Sample ID: 591783015 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-04	Project: GPCC00102
Sample ID: 591783016	Client ID: GPCC001
Matrix: WQ	
Collect Date: 30-AUG-22 14:00	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	09/02/22	1220	2311967	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.213	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1032	2312729	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0058	2311609	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1353	2311609	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1254	2312726

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-04 Project: GPCC00102
Sample ID: 591783016 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-4R	Project: GPCC00102
Sample ID: 591783017	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 15:30	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.67			SU			EOS1	08/30/22	1530	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/02/22	1249	2311967	2
Chloride		65.0	6.70	20.0	mg/L		100	JLD1	09/03/22	0017	2311967	3
Sulfate		379	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1034	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0102	2311609	5
Arsenic	J	0.00490	0.00200	0.00500	mg/L	1.00	1					
Barium		0.134	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00198	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0175	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.154	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00265	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00943	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		4.95	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1355	2311609	6
Calcium		79.3	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		882	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-4R Project: GPCC00102
Sample ID: 591783017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-17	Project: GPCC00102
Sample ID: 591783018	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 11:35	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.33			SU			EOS1	08/31/22	1135	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.442	0.0330	0.100	mg/L	1		JLD1	09/02/22	1319	2311967	2
Chloride		694	13.4	40.0	mg/L		200	JLD1	09/03/22	0047	2311967	3
Sulfate		721	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1035	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0105	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0375	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00258	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00358	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00688	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00252	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00599	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00680	0.00330	0.0200	mg/L	1.00	1					
Boron		2.51	0.260	0.750	mg/L	1.00	50	PRB	09/13/22	1356	2311609	6
Calcium		102	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2050	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-17 Project: GPCC00102
Sample ID: 591783018 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-22	Project: GPCC00102
Sample ID: 591783019	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 13:50	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.68			SU			EOS1	08/30/22	1350	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	09/02/22	1349	2311967	2
Chloride		51.2	0.670	2.00	mg/L		10	JLD1	09/03/22	0117	2311967	3
Sulfate		45.3	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1037	2312729	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0109	2311609	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0741	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		23.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00396	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.271	0.0260	0.0750	mg/L	1.00	5	PRB	09/13/22	1358	2311609	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		163	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-22 Project: GPCC00102
Sample ID: 591783019 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1254		2312726		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-02	Project: GPCC00102
Sample ID: 591783020	Client ID: GPCC001
Matrix: WQ	
Collect Date: 31-AUG-22 14:05	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	09/02/22	1419	2311967	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1039	2312729	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/13/22	0112	2311609	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	09/13/22	1400	2311609	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311608
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1254	2312726

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-02 Project: GPCC00102
Sample ID: 591783020 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-05	Project: GPCC00102
Sample ID: 591783021	Client ID: GPCC001
Matrix: WQ	
Collect Date: 31-AUG-22 15:30	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.172	0.0670	0.200	mg/L		1	JLD1	09/02/22	1549	2311967	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1103	2312733	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	BAJ	09/06/22	1840	2311611	3
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/07/22	1531	2311611	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	1349	2311611	5
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311610
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1255	2312730

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-05 Project: GPCC00102
Sample ID: 591783021 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description	Analyst Comments									
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SW846 3005A/6020B										
6	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-15	Project: GPCC00102
Sample ID: 591783022	Client ID: GPCC001
Matrix: WG	
Collect Date: 31-AUG-22 13:54	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.57			SU			EOS1	08/31/22	1354	2311613	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.83	0.0670	0.200	mg/L		1	JLD1	09/02/22	1619	2311967	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		88.5	1.33	4.00	mg/L		10	JLD1	09/03/22	0146	2311967	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1104	2312733	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.259	0.00200	0.00500	mg/L	1.00	1	BAJ	09/06/22	1844	2311611	5
Barium		0.0550	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.0786	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00192	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc	J	0.00395	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/07/22	1533	2311611	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	1409	2311611	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium	J	0.00476	0.00330	0.0200	mg/L	1.00	1					
Boron		0.719	0.0520	0.150	mg/L	1.00	10	BAJ	09/07/22	1352	2311611	8
Calcium		135	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		530	2.38	10.0	mg/L			CH6	09/02/22	1422	2311940	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311610

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-15 Project: GPCC00102
Sample ID: 591783022 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 7470A Prep	EPA 7470A	Mercury Prep Liquid		RM4	09/06/22		1255		2312730		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3005A/6020B		
8	SW846 3005A/6020B		
9	SM 2540C		

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-7	Project: GPCC00102
Sample ID: 591783023	Client ID: GPCC001
Matrix: WG	
Collect Date: 30-AUG-22 09:35	
Receive Date: 01-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Dissolved Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/07/22	1106	2312733	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	J	0.00319	0.00200	0.00500	mg/L	1.00	1	BAJ	09/06/22	1902	2311611	2
Barium		0.118	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00552	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc		0.0217	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/07/22	1543	2311611	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/22	1420	2311611	4
Calcium		3.75	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00991	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00117	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.107	0.00330	0.0200	mg/L	1.00	1					
Boron		5.54	0.520	1.50	mg/L	1.00	100	BAJ	09/07/22	1403	2311611	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	09/02/22	0905	2311610
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	09/06/22	1255	2312730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 19, 2022

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	GWA-7	Project:	GPCC00102
Sample ID:	591783023	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 19, 2022

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Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 591891

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2312366										
QC1205182663	591867001	DUP									
Chloride		19.9		19.9	mg/L	0.191		(0%-20%)	JLD1	09/06/22	12:07
Fluoride		0.367		0.242	mg/L	41.2*^		(+/-0.100)		09/03/22	19:41
Sulfate	U	ND	U	ND	mg/L	N/A					
QC1205182662	LCS										
Chloride	5.00			4.95	mg/L		99	(90%-110%)		09/03/22	16:42
Fluoride	2.50			2.40	mg/L		95.9	(90%-110%)			
Sulfate	10.0			10.2	mg/L		102	(90%-110%)			
QC1205182661	MB										
Chloride			U	ND	mg/L					09/03/22	16:12
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205182664	591867001	PS									
Chloride	5.00	3.99		10.4	mg/L		129*	(90%-110%)		09/06/22	12:37
Fluoride	2.50	0.367		3.83	mg/L		139*	(90%-110%)		09/03/22	20:11
Sulfate	10.0	U	ND	15.5	mg/L		155*	(90%-110%)			

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QC Summary

Workorder: 591891

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
QC1205182699	LCS										
Antimony	0.0500			0.0483	mg/L		96.6	(80%-120%)	PRB	09/14/22	00:14
Arsenic	0.0500			0.0477	mg/L		95.3	(80%-120%)			
Barium	0.0500			0.0501	mg/L		100	(80%-120%)			
Beryllium	0.0500			0.0506	mg/L		101	(80%-120%)			
Boron	0.100			0.112	mg/L		112	(80%-120%)		09/14/22	17:27
Cadmium	0.0500			0.0490	mg/L		98	(80%-120%)		09/14/22	00:14
Calcium	2.00			1.95	mg/L		97.7	(80%-120%)			
Chromium	0.0500			0.0489	mg/L		97.8	(80%-120%)			
Cobalt	0.0500			0.0480	mg/L		96	(80%-120%)			
Lead	0.0500			0.0494	mg/L		98.7	(80%-120%)			
Lithium	0.0500			0.0471	mg/L		94.1	(80%-120%)			
Molybdenum	0.0500			0.0489	mg/L		97.7	(80%-120%)		09/13/22	22:07
Selenium	0.0500			0.0487	mg/L		97.3	(80%-120%)		09/14/22	00:14
Thallium	0.0500			0.0467	mg/L		93.5	(80%-120%)			
Vanadium	0.0500			0.0529	mg/L		106	(80%-120%)			

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 591891

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
Zinc	0.0500			0.0472	mg/L		94.5	(80%-120%)	PRB	09/14/22	00:14
QC1205182698	MB										
Antimony			U	ND	mg/L					09/14/22	00:10
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L					09/14/22	17:25
Cadmium			U	ND	mg/L					09/14/22	00:10
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			J	0.000271	mg/L					09/13/22	22:04
Selenium			U	ND	mg/L					09/14/22	00:10
Thallium			U	ND	mg/L						

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QC Summary

Workorder: **591891**

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
Vanadium			J	0.00388	mg/L				PRB	09/14/22	00:10
Zinc			U	ND	mg/L						
QC1205182700 591881001 MS											
Antimony	0.0500	U	ND	0.0509	mg/L		101	(75%-125%)		09/14/22	00:21
Arsenic	0.0500	U	ND	0.0496	mg/L		96.2	(75%-125%)			
Barium	0.0500			0.0444	0.0934	mg/L	97.9	(75%-125%)			
Beryllium	0.0500	U	ND	0.0516	mg/L		103	(75%-125%)			
Boron	0.100			1.20	1.24	mg/L	N/A	(75%-125%)		09/14/22	17:31
Cadmium	0.0500	U	ND	0.0496	mg/L		99.2	(75%-125%)		09/14/22	00:21
Calcium	2.00			42.6	43.0	mg/L	N/A	(75%-125%)			
Chromium	0.0500	U	ND	0.0498	mg/L		97.6	(75%-125%)			
Cobalt	0.0500			0.00560	0.0534	mg/L	95.6	(75%-125%)			
Lead	0.0500	U	ND	0.0492	mg/L		98	(75%-125%)			
Lithium	0.0500	J		0.00615	0.0535	mg/L	94.6	(75%-125%)			
Molybdenum	0.0500			0.00142	0.0528	mg/L	103	(75%-125%)		09/13/22	22:14
Selenium	0.0500			0.00625	0.0546	mg/L	96.8	(75%-125%)		09/14/22	00:21

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 591891

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
Thallium	0.0500	U	ND	0.0475	mg/L		94.8	(75%-125%)	PRB	09/14/22	00:21
Vanadium	0.0500	J	0.00495	0.0554	mg/L		101	(75%-125%)			
Zinc	0.0500	J	0.00671	0.0534	mg/L		93.4	(75%-125%)			
QC1205182701 591881001 MSD											
Antimony	0.0500	U	ND	0.0507	mg/L	0.395	101	(0%-20%)		09/14/22	00:24
Arsenic	0.0500	U	ND	0.0499	mg/L	0.49	96.7	(0%-20%)			
Barium	0.0500		0.0444	0.0937	mg/L	0.405	98.6	(0%-20%)			
Beryllium	0.0500	U	ND	0.0501	mg/L	3.13	99.9	(0%-20%)			
Boron	0.100		1.20	1.27	mg/L	2.04	N/A	(0%-20%)		09/14/22	17:33
Cadmium	0.0500	U	ND	0.0490	mg/L	1.29	97.9	(0%-20%)		09/14/22	00:24
Calcium	2.00		42.6	42.9	mg/L	0.254	N/A	(0%-20%)			
Chromium	0.0500	U	ND	0.0494	mg/L	0.805	96.8	(0%-20%)			
Cobalt	0.0500		0.00560	0.0545	mg/L	2.08	97.8	(0%-20%)			
Lead	0.0500	U	ND	0.0495	mg/L	0.699	98.7	(0%-20%)			
Lithium	0.0500	J	0.00615	0.0534	mg/L	0.187	94.4	(0%-20%)			
Molybdenum	0.0500		0.00142	0.0541	mg/L	2.51	105	(0%-20%)		09/13/22	22:18

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QC Summary

Workorder: 591891

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
Selenium	0.0500	0.00625		0.0553	mg/L	1.29	98.2	(0%-20%)	PRB	09/14/22	00:24
Thallium	0.0500	U	ND	0.0475	mg/L	0.137	94.7	(0%-20%)			
Vanadium	0.0500	J	0.00495	0.0544	mg/L	1.83	98.9	(0%-20%)			
Zinc	0.0500	J	0.00671	0.0534	mg/L	0.0337	93.5	(0%-20%)			
QC1205182702 591881001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/14/22	00:32
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			44.4		8.34	ug/L	6.1	(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			120		26.6	ug/L	11.2	(0%-20%)		09/14/22	17:37
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/14/22	00:32
Calcium			42600		8140	ug/L	4.58	(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Cobalt			5.60		1.10	ug/L	1.7	(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Lithium		J	6.15	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

Workorder: **591891**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2312380										
Molybdenum		1.42	J	0.372	ug/L	31.3		(0%-20%)	PRB	09/13/22	22:25
Selenium		6.25	U	ND	ug/L	N/A		(0%-20%)		09/14/22	00:32
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium	J	4.95	U	ND	ug/L	N/A		(0%-20%)			
Zinc	J	6.71	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2312733										
QC1205183555	591729001	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		JP2	09/07/22	10:51
QC1205183554	LCS										
Mercury	0.00200			0.00203	mg/L		102	(80%-120%)		09/07/22	10:42
QC1205183553	MB										
Mercury			U	ND	mg/L					09/07/22	10:40
QC1205183556	591729001	MS									
Mercury	0.00200	U	ND	0.00203	mg/L		102	(75%-125%)		09/07/22	10:52
QC1205183557	591729001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/07/22	10:54
Solids Analysis											
Batch	2313724										
QC1205185481	591879005	DUP									
Total Dissolved Solids		388		432	mg/L	10.7*		(0%-5%)	CH6	09/08/22	14:57

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QC Summary

Workorder: **591891**

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2313724										
QC1205185480	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)	CH6	09/08/22	14:57
QC1205185479	MB										
Total Dissolved Solids			U	ND	mg/L					09/08/22	14:57

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 591891

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: September 19, 2022

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Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 591783

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2311815										
QC1205181700	591783001	DUP									
Chloride		58.4		58.2	mg/L	0.309		(0%-20%)	JLD1	09/03/22	14:44
Fluoride		0.273		0.292	mg/L	6.68 ^		(+/-0.100)		09/02/22	22:13
Sulfate		415		418	mg/L	0.774		(0%-20%)		09/03/22	14:44
QC1205181702	591783013	DUP									
Chloride		52.0		52.7	mg/L	1.2 ^		(+/-20.0)		09/03/22	21:56
Fluoride	U	ND	U	ND	mg/L	N/A				09/03/22	06:27
Sulfate		978		990	mg/L	1.21		(0%-20%)		09/03/22	21:56
QC1205181699	LCS										
Chloride	5.00			4.74	mg/L		94.8	(90%-110%)		09/03/22	09:32
Fluoride	2.50			2.57	mg/L		103	(90%-110%)			
Sulfate	10.0			9.81	mg/L		98.1	(90%-110%)			
QC1205181698	MB										
Chloride			U	ND	mg/L					09/03/22	09:01
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205181701	591783001	PS									
Chloride	5.00	1.46		6.44	mg/L		99.6	(90%-110%)		09/03/22	15:15

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QC Summary

Workorder: 591783

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2311815										
Fluoride	2.50	0.273		2.87	mg/L		104	(90%-110%)	JLD1	09/02/22	22:43
Sulfate	10.0	10.4		20.0	mg/L		96.6	(90%-110%)		09/03/22	15:15
QC1205181703	591783013 PS										
Chloride	5.00	0.520		5.32	mg/L		95.9	(90%-110%)		09/03/22	22:27
Fluoride	2.50	U	ND	2.59	mg/L		103	(90%-110%)		09/03/22	06:57
Sulfate	10.0	9.78		20.5	mg/L		107	(90%-110%)		09/03/22	22:27
Batch	2311967										
QC1205181988	591783015 DUP										
Chloride		76.8		77.1	mg/L	0.39 ^		(+/-20.0)	JLD1	09/02/22	23:17
Fluoride		J	0.0428	U	ND	mg/L	200			09/02/22	11:20
Sulfate			403		407	mg/L	1.1	(0%-20%)		09/02/22	23:17
QC1205181990	591798017 DUP										
Chloride			5.59		5.46	mg/L	2.29	(0%-20%)		09/02/22	20:18
Fluoride			0.127		0.122	mg/L	3.38 ^	(+/-0.100)			
Sulfate			53.0		53.1	mg/L	0.0471	(0%-20%)		09/03/22	05:16
QC1205181987	LCS										
Chloride	5.00			4.81	mg/L		96.3	(90%-110%)		09/02/22	10:20
Fluoride	2.50			2.34	mg/L		93.6	(90%-110%)			
Sulfate	10.0			9.96	mg/L		99.6	(90%-110%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2311967											
QC1205181986 MB											
Chloride			U	ND	mg/L				JLD1	09/02/22	09:51
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205181989 591783015 PS											
Chloride	5.00	0.768		5.68	mg/L		98.2	(90%-110%)		09/02/22	23:47
Fluoride	2.50	J 0.0428		2.43	mg/L		95.6	(90%-110%)		09/02/22	11:50
Sulfate	10.0	4.03		14.3	mg/L		103	(90%-110%)		09/02/22	23:47
QC1205181991 591798017 PS											
Chloride	5.00	5.59		11.1	mg/L		109	(90%-110%)		09/02/22	21:47
Fluoride	2.50	0.127		2.42	mg/L		91.6	(90%-110%)			
Sulfate	10.0	10.6		21.6	mg/L		110	(90%-110%)		09/03/22	05:46
Metals Analysis - ICPMS											
Batch 2311609											
QC1205181382 LCS											
Antimony	0.0500			0.0482	mg/L		96.4	(80%-120%)	PRB	09/12/22	23:31
Arsenic	0.0500			0.0476	mg/L		95.2	(80%-120%)			
Barium	0.0500			0.0506	mg/L		101	(80%-120%)			
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
Boron	0.100			0.101	mg/L		101	(80%-120%)	PRB	09/13/22	13:07
Cadmium	0.0500			0.0510	mg/L		102	(80%-120%)		09/12/22	23:31
Calcium	2.00			2.09	mg/L		104	(80%-120%)			
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)			
Cobalt	0.0500			0.0493	mg/L		98.6	(80%-120%)			
Lead	0.0500			0.0503	mg/L		101	(80%-120%)			
Lithium	0.0500			0.0504	mg/L		101	(80%-120%)			
Molybdenum	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Selenium	0.0500			0.0472	mg/L		94.4	(80%-120%)			
Thallium	0.0500			0.0490	mg/L		98	(80%-120%)			
Vanadium	0.0500			0.0508	mg/L		102	(80%-120%)			
Zinc	0.0500			0.0475	mg/L		95.1	(80%-120%)			
QC1205181381	MB										
Antimony			U	ND	mg/L					09/12/22	23:28
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
Beryllium			U	ND	mg/L				PRB	09/12/22	23:28
Boron			U	ND	mg/L					09/13/22	13:05
Cadmium			U	ND	mg/L					09/12/22	23:28
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Selenium			U	ND	mg/L						
Thallium			U	ND	mg/L						
Vanadium			U	ND	mg/L						
Zinc			U	ND	mg/L						
QC1205181383 591783001 MS											
Antimony	0.0500	U	ND	0.0515	mg/L		103	(75%-125%)		09/12/22	23:38
Arsenic	0.0500	U	ND	0.0506	mg/L		99.5	(75%-125%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
Barium	0.0500	0.0275		0.0775	mg/L		99.9	(75%-125%)	PRB	09/12/22	23:38
Beryllium	0.0500	0.000663		0.0535	mg/L		106	(75%-125%)			
Boron	0.100	8.21		8.07	mg/L		N/A	(75%-125%)		09/13/22	13:10
Cadmium	0.0500	U	ND	0.0509	mg/L		102	(75%-125%)		09/12/22	23:38
Calcium	2.00	70.8		67.6	mg/L		N/A	(75%-125%)		09/13/22	13:10
Chromium	0.0500	U	ND	0.0502	mg/L		98.6	(75%-125%)		09/12/22	23:38
Cobalt	0.0500	J	0.000786	0.0494	mg/L		97.3	(75%-125%)			
Lead	0.0500	U	ND	0.0482	mg/L		96.3	(75%-125%)			
Lithium	0.0500	U	ND	0.0505	mg/L		98.7	(75%-125%)			
Molybdenum	0.0500	J	0.000205	0.0541	mg/L		108	(75%-125%)			
Selenium	0.0500	U	ND	0.0445	mg/L		88.4	(75%-125%)			
Thallium	0.0500	U	ND	0.0477	mg/L		94.9	(75%-125%)			
Vanadium	0.0500	J	0.00949	0.0597	mg/L		100	(75%-125%)			
Zinc	0.0500		0.0262	0.0710	mg/L		89.5	(75%-125%)			
QC1205181384 591783001 MSD											
Antimony	0.0500	U	ND	0.0505	mg/L	2.03	101	(0%-20%)		09/12/22	23:42

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
Arsenic	0.0500	U	ND	0.0501	mg/L	1.14	98.3	(0%-20%)	PRB	09/12/22	23:42
Barium	0.0500		0.0275	0.0783	mg/L	1.1	102	(0%-20%)			
Beryllium	0.0500		0.000663	0.0545	mg/L	1.78	108	(0%-20%)			
Boron	0.100		8.21	8.57	mg/L	6.04	N/A	(0%-20%)		09/13/22	13:12
Cadmium	0.0500	U	ND	0.0516	mg/L	1.37	103	(0%-20%)		09/12/22	23:42
Calcium	2.00		70.8	70.6	mg/L	4.33	N/A	(0%-20%)		09/13/22	13:12
Chromium	0.0500	U	ND	0.0500	mg/L	0.479	98.1	(0%-20%)		09/12/22	23:42
Cobalt	0.0500	J	0.000786	0.0491	mg/L	0.666	96.6	(0%-20%)			
Lead	0.0500	U	ND	0.0488	mg/L	1.19	97.4	(0%-20%)			
Lithium	0.0500	U	ND	0.0523	mg/L	3.51	102	(0%-20%)			
Molybdenum	0.0500	J	0.000205	0.0528	mg/L	2.31	105	(0%-20%)			
Selenium	0.0500	U	ND	0.0462	mg/L	3.75	91.8	(0%-20%)			
Thallium	0.0500	U	ND	0.0480	mg/L	0.692	95.6	(0%-20%)			
Vanadium	0.0500	J	0.00949	0.0586	mg/L	2	98.1	(0%-20%)			
Zinc	0.0500		0.0262	0.0706	mg/L	0.592	88.7	(0%-20%)			

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QC Summary

Workorder: 591783

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
	QC1205181385 591783001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/12/22	23:49
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		27.5		5.07	ug/L	7.82		(0%-20%)			
Beryllium		0.663	U	ND	ug/L	N/A		(0%-20%)			
Boron		164		36.1	ug/L	9.9		(0%-20%)		09/13/22	13:14
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/12/22	23:49
Calcium		1420		265	ug/L	6.35		(0%-20%)		09/13/22	13:14
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/12/22	23:49
Cobalt	J	0.786	U	ND	ug/L	N/A		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum	J	0.205	J	0.238	ug/L	480		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium	J	9.49	U	ND	ug/L	N/A		(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311609										
Zinc		26.2	J	5.78	ug/L	10.1		(0%-20%)	PRB	09/12/22	23:49
<hr/>											
Batch	2311611										
	QC1205181387 LCS										
Antimony	0.0500			0.0506	mg/L		101	(80%-120%)	PRB	09/07/22	15:29
Arsenic	0.0500			0.0504	mg/L		101	(80%-120%)	BAJ	09/06/22	18:37
Barium	0.0500			0.0511	mg/L		102	(80%-120%)			
Beryllium	0.0500			0.0539	mg/L		108	(80%-120%)		09/07/22	13:42
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0513	mg/L		103	(80%-120%)		09/06/22	18:37
Calcium	2.00			2.15	mg/L		107	(80%-120%)		09/07/22	13:42
Chromium	0.0500			0.0513	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0519	mg/L		104	(80%-120%)			
Lead	0.0500			0.0503	mg/L		101	(80%-120%)		09/06/22	18:37
Lithium	0.0500			0.0509	mg/L		102	(80%-120%)		09/07/22	13:42
Molybdenum	0.0500			0.0525	mg/L		105	(80%-120%)		09/06/22	18:37
Selenium	0.0500			0.0494	mg/L		98.8	(80%-120%)			

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311611										
Thallium	0.0500			0.0461	mg/L		92.3	(80%-120%)	BAJ	09/06/22	18:37
Vanadium	0.0500			0.0524	mg/L		105	(80%-120%)		09/07/22	13:42
Zinc	0.0500			0.0516	mg/L		103	(80%-120%)		09/06/22	18:37
QC1205181386	MB										
Antimony			U	ND	mg/L				PRB	09/07/22	15:27
Arsenic			U	ND	mg/L				BAJ	09/06/22	18:33
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L					09/07/22	13:39
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L					09/06/22	18:33
Calcium			U	ND	mg/L					09/07/22	13:39
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L					09/06/22	18:33
Lithium			U	ND	mg/L					09/07/22	13:39
Molybdenum			U	ND	mg/L					09/06/22	18:33

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311611										
Selenium			U	ND	mg/L				BAJ	09/06/22	18:33
Thallium			U	ND	mg/L						
Vanadium			U	ND	mg/L					09/07/22	13:39
Zinc			U	ND	mg/L					09/06/22	18:33
QC1205181388 591783022 MS											
Antimony	0.0500	U	ND	0.0508	mg/L		101	(75%-125%)	PRB	09/07/22	15:35
Arsenic	0.0500		0.259	0.321	mg/L		N/A	(75%-125%)	BAJ	09/06/22	18:48
Barium	0.0500		0.0550	0.106	mg/L		101	(75%-125%)			
Beryllium	0.0500	U	ND	0.0554	mg/L		111	(75%-125%)		09/07/22	14:12
Boron	0.100		0.719	0.820	mg/L		N/A	(75%-125%)		09/07/22	13:54
Cadmium	0.0500	U	ND	0.0504	mg/L		101	(75%-125%)		09/06/22	18:48
Calcium	2.00		135	144	mg/L		N/A	(75%-125%)		09/07/22	13:54
Chromium	0.0500	U	ND	0.0519	mg/L		101	(75%-125%)		09/07/22	14:12
Cobalt	0.0500	U	ND	0.0509	mg/L		102	(75%-125%)			
Lead	0.0500	U	ND	0.0479	mg/L		95.5	(75%-125%)		09/06/22	18:48
Lithium	0.0500	U	ND	0.0497	mg/L		99.4	(75%-125%)		09/07/22	14:12

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311611										
Molybdenum	0.0500	0.0786		0.138	mg/L		118	(75%-125%)	BAJ	09/06/22	18:48
Selenium	0.0500	J	0.00192	0.0521	mg/L		100	(75%-125%)			
Thallium	0.0500	U	ND	0.0459	mg/L		91.7	(75%-125%)			
Vanadium	0.0500	J	0.00476	0.0574	mg/L		105	(75%-125%)		09/07/22	14:12
Zinc	0.0500	J	0.00395	0.0535	mg/L		99.2	(75%-125%)		09/06/22	18:48
QC1205181389 591783022 MSD											
Antimony	0.0500	U	ND	0.0517	mg/L	1.69	103	(0%-20%)	PRB	09/07/22	15:37
Arsenic	0.0500		0.259	0.311	mg/L	3.32	N/A	(0%-20%)	BAJ	09/06/22	18:51
Barium	0.0500		0.0550	0.105	mg/L	1.01	99.3	(0%-20%)			
Beryllium	0.0500	U	ND	0.0547	mg/L	1.22	109	(0%-20%)		09/07/22	14:14
Boron	0.100		0.719	0.832	mg/L	1.38	N/A	(0%-20%)		09/07/22	13:56
Cadmium	0.0500	U	ND	0.0503	mg/L	0.264	101	(0%-20%)		09/06/22	18:51
Calcium	2.00		135	148	mg/L	2.36	N/A	(0%-20%)		09/07/22	13:56
Chromium	0.0500	U	ND	0.0521	mg/L	0.421	101	(0%-20%)		09/07/22	14:14
Cobalt	0.0500	U	ND	0.0510	mg/L	0.186	102	(0%-20%)			
Lead	0.0500	U	ND	0.0480	mg/L	0.231	95.8	(0%-20%)		09/06/22	18:51

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311611										
Lithium	0.0500	U	ND	0.0501	mg/L	0.653	100	(0%-20%)	BAJ	09/07/22	14:14
Molybdenum	0.0500		0.0786	0.137	mg/L	0.517	117	(0%-20%)		09/06/22	18:51
Selenium	0.0500	J	0.00192	0.0517	mg/L	0.735	99.7	(0%-20%)			
Thallium	0.0500	U	ND	0.0461	mg/L	0.48	92.2	(0%-20%)			
Vanadium	0.0500	J	0.00476	0.0579	mg/L	0.918	106	(0%-20%)		09/07/22	14:14
Zinc	0.0500	J	0.00395	0.0525	mg/L	1.93	97.1	(0%-20%)		09/06/22	18:51
QC1205181390 591783022 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)	PRB	09/07/22	15:41
Arsenic			259	50.2	ug/L	3.21		(0%-20%)	BAJ	09/06/22	18:58
Barium			55.0	10.5	ug/L	4.8		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/07/22	14:18
Boron			71.9	17.9	ug/L	24.3		(0%-20%)		09/07/22	14:01
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/06/22	18:58
Calcium			13500	2810	ug/L	4.29		(0%-20%)		09/07/22	14:01
Chromium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/07/22	14:18
Cobalt		U	ND	U	ND	ug/L	N/A	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2311611										
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/06/22	18:58
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/22	14:18
Molybdenum		78.6		14.9	ug/L	5.3		(0%-20%)		09/06/22	18:58
Selenium	J	1.92	U	ND	ug/L	N/A		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium	J	4.76	U	ND	ug/L	N/A		(0%-20%)		09/07/22	14:18
Zinc	J	3.95	U	ND	ug/L	N/A		(0%-20%)		09/06/22	18:58
Metals Analysis-Mercury											
Batch	2312729										
QC1205183534	591783001	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/07/22	09:54
QC1205183533	LCS										
Mercury	0.00200			0.00203	mg/L		101	(80%-120%)		09/07/22	09:51
QC1205183532	MB										
Mercury			U	ND	mg/L					09/07/22	09:49
QC1205183535	591783001	MS									
Mercury	0.00200	U	ND	0.00158	mg/L		79.2	(75%-125%)		09/07/22	09:56
QC1205183536	591783001	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/07/22	09:57

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2312733											
QC1205183555	591729001	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		JP2	09/07/22	10:51
QC1205183554	LCS										
Mercury	0.00200			0.00203	mg/L		102	(80%-120%)		09/07/22	10:42
QC1205183553	MB										
Mercury			U	ND	mg/L					09/07/22	10:40
QC1205183556	591729001	MS									
Mercury	0.00200	U	ND	0.00203	mg/L		102	(75%-125%)		09/07/22	10:52
QC1205183557	591729001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/07/22	10:54
Solids Analysis											
Batch 2311939											
QC1205181929	591692001	DUP									
Total Dissolved Solids			2660	2700	mg/L	1.42		(0%-5%)	CH6	09/02/22	11:43
QC1205181926	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		09/02/22	11:43
QC1205181925	MB										
Total Dissolved Solids			U	ND	mg/L					09/02/22	11:43
Batch 2311940											
QC1205181932	591783004	DUP									
Total Dissolved Solids			1210	1210	mg/L	0.744		(0%-5%)	CH6	09/02/22	14:22
QC1205181933	591783018	DUP									
Total Dissolved Solids			2050	2090	mg/L	2.18		(0%-5%)		09/02/22	14:22

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch		2311940									
QC1205181931		LCS									
Total Dissolved Solids	300			303	mg/L		101	(95%-105%)	CH6	09/02/22	14:22
QC1205181930		MB									
Total Dissolved Solids			U	ND	mg/L					09/02/22	14:22

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- h Preparation or preservation holding time was exceeded

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QC Summary

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 591891**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2312380

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2312379

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591891001	GWC-1
591891002	GWC-2
591891003	GWC-9
591891004	GWC-16
591891005	MW-24D
591891006	FD-03
591891007	EB-03
591891008	FB-06
1205182698	Method Blank (MB)ICP-MS
1205182699	Laboratory Control Sample (LCS)
1205182702	591881001(NonSDGL) Serial Dilution (SD)
1205182700	591881001(NonSDGS) Matrix Spike (MS)
1205182701	591881001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 591891001 (GWC-1) and 591891004

(GWC-16) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	591891	
	001	004
Boron	10X	100X
Calcium	1X	10X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2312733

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2312730

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591891001	GWC-1
591891002	GWC-2
591891003	GWC-9
591891004	GWC-16
591891005	MW-24D
591891006	FD-03
591891007	EB-03
591891008	FB-06
1205183553	Method Blank (MB)CVAA
1205183554	Laboratory Control Sample (LCS)
1205183557	591729001(NonSDGL) Serial Dilution (SD)
1205183555	591729001(NonSDGD) Sample Duplicate (DUP)
1205183556	591729001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2312366

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591891001	GWC-1
591891002	GWC-2
591891003	GWC-9
591891004	GWC-16
591891005	MW-24D
591891006	FD-03
591891007	EB-03
591891008	FB-06
1205182661	Method Blank (MB)
1205182662	Laboratory Control Sample (LCS)
1205182663	591867001(NonSDG) Sample Duplicate (DUP)
1205182664	591867001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205182664 (Non SDG 591867001PS)	129* (90%-110%)
Fluoride	1205182664 (Non SDG 591867001PS)	139* (90%-110%)
Sulfate	1205182664 (Non SDG 591867001PS)	155* (90%-110%)

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Fluoride	1205182663 (Non SDG 591867001DUP)	abs(.242 - .367)* (+/- .1 mg/L)

Technical Information

Sample Dilutions

The following samples 1205182663 (Non SDG 591867001DUP), 1205182664 (Non SDG 591867001PS), 591891001 (GWC-1), 591891003 (GWC-9) and 591891004 (GWC-16) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591891		
	001	003	004
Chloride	1X	5X	100X
Sulfate	10X	5X	100X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2313724

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591891001	GWC-1
591891002	GWC-2
591891003	GWC-9
591891004	GWC-16
591891005	MW-24D
591891006	FD-03
591891007	EB-03
591891008	FB-06
1205185479	Method Blank (MB)
1205185480	Laboratory Control Sample (LCS)
1205185481	591879005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205185481 (Non SDG 591879005DUP)	10.7* (0%-5%)

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205185481 (Non SDG 591879005DUP).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Technical Case Narrative
Georgia Power Company
SDG #: 591783**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2311609

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2311608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783001	GWC-12
591783002	GWC-13
591783003	GWC-14
591783004	GWC-20
591783005	GWC-21
591783006	MW-25D
591783007	FD-02
591783008	EB-01
591783009	GWC-11
591783010	MW-23D
591783011	GWA-8
591783012	GWA-7
591783013	GWB-6R
591783014	FD-01
591783015	GWB-5R
591783016	FB-04
591783017	GWB-4R
591783018	GWC-17
591783019	GWC-22
591783020	EB-02
1205181381	Method Blank (MB) ICP-MS
1205181382	Laboratory Control Sample (LCS)
1205181385	591783001(GWC-12L) Serial Dilution (SD)
1205181383	591783001(GWC-12S) Matrix Spike (MS)
1205181384	591783001(GWC-12SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 591783001 (GWC-12), 591783002 (GWC-13), 591783003 (GWC-14), 591783004 (GWC-20), 591783005 (GWC-21), 591783007 (FD-02), 591783009 (GWC-11), 591783012 (GWA-7), 591783013 (GWB-6R), 591783014 (FD-01), 591783015 (GWB-5R), 591783017 (GWB-4R), 591783018 (GWC-17) and 591783019 (GWC-22) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	591783									
	001	002	003	004	005	007	009	012	013	014
Boron	50X	5X	1X	50X	50X	5X	20X	50X	50X	5X
Calcium	50X	1X	10X	50X	50X	1X	20X	1X	50X	1X

Analyte	591783			
	015	017	018	019
Boron	50X	50X	50X	5X
Calcium	50X	50X	50X	1X

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2311611

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2311610

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783021	FB-05
591783022	GWC-15
591783023	GWA-7
1205181386	Method Blank (MB) ICP-MS
1205181387	Laboratory Control Sample (LCS)
1205181390	591783022(GWC-15L) Serial Dilution (SD)
1205181388	591783022(GWC-15S) Matrix Spike (MS)
1205181389	591783022(GWC-15SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	591783	
	022	023
Boron	10X	100X
Calcium	10X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2312729

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2312726

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783001	GWC-12
591783002	GWC-13
591783003	GWC-14
591783004	GWC-20
591783005	GWC-21
591783006	MW-25D
591783007	FD-02
591783008	EB-01
591783009	GWC-11
591783010	MW-23D
591783011	GWA-8
591783012	GWA-7
591783013	GWB-6R
591783014	FD-01
591783015	GWB-5R

591783016	FB-04
591783017	GWB-4R
591783018	GWC-17
591783019	GWC-22
591783020	EB-02
1205183532	Method Blank (MB)CVAA
1205183533	Laboratory Control Sample (LCS)
1205183536	591783001(GWC-12L) Serial Dilution (SD)
1205183534	591783001(GWC-12D) Sample Duplicate (DUP)
1205183535	591783001(GWC-12S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2312733

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2312730

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783021	FB-05
591783022	GWC-15
591783023	GWA-7
1205183553	Method Blank (MB)CVAA
1205183554	Laboratory Control Sample (LCS)
1205183557	591729001(NonSDGL) Serial Dilution (SD)
1205183555	591729001(NonSDGD) Sample Duplicate (DUP)
1205183556	591729001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2311815

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783001	GWC-12
591783002	GWC-13
591783003	GWC-14
591783004	GWC-20
591783005	GWC-21
591783006	MW-25D
591783007	FD-02
591783008	EB-01
591783009	GWC-11
591783010	MW-23D
591783011	GWA-8
591783012	GWA-7
591783013	GWB-6R
591783014	FD-01
1205181698	Method Blank (MB)
1205181699	Laboratory Control Sample (LCS)
1205181700	591783001(GWC-12) Sample Duplicate (DUP)
1205181701	591783001(GWC-12) Post Spike (PS)
1205181702	591783013(GWB-6R) Sample Duplicate (DUP)
1205181703	591783013(GWB-6R) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205181700 (GWC-12DUP), 1205181701 (GWC-12PS), 1205181702 (GWB-6RDUP), 1205181703 (GWB-6RPS), 591783001 (GWC-12), 591783002 (GWC-13), 591783003 (GWC-14), 591783004 (GWC-20), 591783005 (GWC-21), 591783007 (FD-02), 591783009 (GWC-11), 591783010 (MW-23D), 591783011 (GWA-8), 591783012 (GWA-7), 591783013 (GWB-6R) and 591783014 (FD-01) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591783									
	001	002	003	004	005	007	009	010	011	012
Chloride	40X	1X	40X	50X	40X	1X	50X	1X	5X	20X
Sulfate	40X	2X	40X	50X	40X	2X	50X	5X	5X	1X

Analyte	591783	
	013	014
Chloride	100X	5X

Sulfate	100X	5X
---------	------	----

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2311967

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783015	GWB-5R
591783016	FB-04
591783017	GWB-4R
591783018	GWC-17
591783019	GWC-22
591783020	EB-02
591783021	FB-05
591783022	GWC-15
1205181986	Method Blank (MB)
1205181987	Laboratory Control Sample (LCS)
1205181988	591783015(GWB-5R) Sample Duplicate (DUP)
1205181989	591783015(GWB-5R) Post Spike (PS)
1205181990	591798017(NonSDG) Sample Duplicate (DUP)
1205181991	591798017(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205181988 (GWB-5RDUP), 1205181989 (GWB-5RPS), 1205181990 (Non SDG 591798017DUP), 1205181991 (Non SDG 591798017PS), 591783015 (GWB-5R), 591783017 (GWB-4R), 591783018 (GWC-17), 591783019 (GWC-22) and 591783022 (GWC-15) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	591783				
	015	017	018	019	022
Chloride	100X	100X	200X	10X	1X
Sulfate	100X	100X	200X	10X	10X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2311939

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783001	GWC-12
591783002	GWC-13
591783003	GWC-14
1205181925	Method Blank (MB)
1205181926	Laboratory Control Sample (LCS)
1205181929	591692001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2311940

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591783004	GWC-20
591783005	GWC-21
591783006	MW-25D
591783007	FD-02
591783008	EB-01
591783009	GWC-11
591783010	MW-23D
591783011	GWA-8
591783012	GWA-7
591783013	GWB-6R
591783014	FD-01
591783015	GWB-5R
591783016	FB-04
591783017	GWB-4R
591783018	GWC-17
591783019	GWC-22
591783020	EB-02
591783021	FB-05
591783022	GWC-15
1205181930	Method Blank (MB)
1205181931	Laboratory Control Sample (LCS)
1205181932	591783004(GWC-20) Sample Duplicate (DUP)
1205181933	591783018(GWC-17) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radioreactive (if yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments
								NI	NI	NI	NI	
GWC-1	09-01-22	1319	G	N	WG			6	6	6	6	field pH = 5.80
GWC-2	09-01-22	1425	G	N	WG			6	6	6	6	field pH = 4.73
GWC-9	09-01-22	0924	G	N	WG			6	6	6	6	field pH = 4.60
GWC-16	09-01-22	1046	G	N	WG			6	6	6	6	field pH = 5.37
MW-24D	09-01-22	1159	G	N	WG			6	6	6	6	field pH = 6.08
FD-03	09-01-22	---	G	N	WG			6	6	6	6	field pH = ---
EB-03	09-01-22	1400	G	N	WQ			6	6	6	6	field pH = ---
FB-06	09-01-22	1030	G	N	WQ			6	6	6	6	field pH = ---

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>Taylor Goble</u>	9-2-22	<u>[Signature]</u>	9-2-22	0822
<u>[Signature]</u>	9-2-22	<u>[Signature]</u>	9-2-22	1015

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surchage)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Mo,Se,Tl,Y,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: <u>PLC</u>		SDG/AR/COC/Work Order: <u>591891 / 591893</u>			
Received By: <u>PL</u>		Date Received: <u>9/2/22</u>			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other			
Suspected Hazard Information		Yes	No		
*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.					
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>		
Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___					
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/>		
COC notation or radioactive stickers on containers equal client designation.					
C) Did the RSO classify the samples as radioactive?			<input checked="" type="checkbox"/>		
Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3					
D) Did the client designate samples are hazardous?			<input checked="" type="checkbox"/>		
COC notation or hazard labels on containers equal client designation.					
E) Did the RSO identify possible hazards?			<input checked="" type="checkbox"/>		
If D or B is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:					
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>112-3-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) ___ Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials em Date 09/06/22 Page 1 of 1

Page: 1 of 3
 Project # _____
 GEL Quote #: _____
 COC Number ⁽¹⁾: 591783
 PO Number: _____

GEL Laboratories, LLC
 2040 Snavage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry / Radiochemistry / Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: *Erlin Tran*

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Phone # 404-506-7116
 Fax # _____

Collected By: *Taylor Goble / A. Schmitt*
 * For components - indicate start and stop time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (hh:mm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		TAT number of containers	Preservative Type (6)	Comments
						Yes, please supply isotope info.	(?) Known or possible hazard			
GWC-12	08-30-22	1503	G	N	WG			6		field pH = 3.92
GWC-13	08-31-22	1011	G	N	WG			6		field pH = 4.76
GWC-14	08-30-22	1157	G	N	WG			6		field pH = 5.86
GWC-20	08-30-22	1323	G	N	WG			6		field pH = 6.01
GWC-21	08-30-22	1725	G	N	WG			6		field pH = 5.76
MW-25D	08-31-22	1138	G	N	WG			6		field pH = 6.29
FD-02	08-31-22	---	G	N	WG			6		field pH = ---
EG-01	08-30-22	1630	G	N	WG			6		field pH = ---
GWC-11	08-31-22	1545	G	N	WG			6		field pH = 4.35
MW-23D	08-31-22	1618	G	N	WG			6		field pH = 6.06

Refiniquished By (Signed) _____ Date _____
 Received by (signed) _____ Date _____
 1 Taylor Goble 7-1-22 0840 1 hours log 9-1-22 840
 2 Taylor Goble 9-1-22 1055 2 9-1-22 1055
 3 _____ 3

Chain of Custody Signatures

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A IQC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Li, Mn, Se, Ti, V, Zn, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SR&R)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, ES = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a + or - for yes/no. For solids, indicate with a + or - for yes/no. For samples not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WY=Waste Water, WL=Lachne, SO=Soil, SE=Soil, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. S200B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SF = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, if the preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 FL = Flammable/ignitable
 CO = Corrosive
 RE = Reactive
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s): _____
 Other: _____
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

RCRA Metals: _____
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead biphentyls

Please provide any additional details below regarding handling and/or disposal concerns (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)


Page: 2 of 3

Project # _____

GEL Quote #: _____

COC Number #: _____

PO Number: _____



GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____ **Phone #** 404-306-7116 **Fax #** _____

Client Name: GA Power **Project/Site Name:** Plant Kraff - Grumman Road Landfill

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: Jacob Benson **Send Results To:** SCS & ACC Contacts

** For comparatives - indicate start and stop date time*

Sample ID	Date Collected (mm-dd-yy)	Time Collected (hh:mm)	QC Code	Field Filled	Sample Matrix	Indicative (if yes, please specify isotopic info)	Should this sample be considered:	Field number of containers	Sample Analysis Requested	Preservative Type (6)	Comments
6WA-8	08/30/22	1156	G	N	WG			6	EP A 6030A, 6010D		field pH = 4.58
6WA-7	08/30/22	0935	G	Y	WB			7	EP A 6030A, 6010D		field pH = 5.18
6WB-6R	08/30/22	1051	G	N	WB			6	EP A 6030A, 6010D		field pH = 5.55
FD-61	08/30/22	---	G	N	WB			6	EP A 6030A, 6010D		field pH = N/A
6WB-5R	08/30/22	1420	G	N	WB			6	EP A 6030A, 6010D		field pH = 5.32
FB-04	08/30/22	1400	G	N	WB			6	EP A 6030A, 6010D		field pH = N/A
6WB-4R	08/30/22	1520	G	N	WB			6	EP A 6030A, 6010D		field pH = 5.67
6WC-17	08/31/22	1135	G	N	WB			6	EP A 6030A, 6010D		field pH = 4.33
6WC-22	08/31/22	1350	G	N	WB			6	EP A 6030A, 6010D		field pH = 4.63
FB-02	08/31/22	1405	G	N	WB			6	EP A 6030A, 6010D		field pH = N/A

BMD
9/14/22

Chain of Custody Signatures

Refiniquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	0840	<i>[Signature]</i>	9.1.22	840
<i>[Signature]</i>	9.1.22	<i>[Signature]</i>	9.1.22	1055

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, V, Zn, Hg
For Lab Receiving Use Only: Custody Seal Intact? Yes No **Cooler Temp:** _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other

Chain of Custody Signatures

1.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

2.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

3.) Matrix Codes: WP=Drinking Water, WG=Groundwater, WS=Surface Water, WWS=Water Water, WWT=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

4.) Sample Analysis Requested: Analytical method requested (i.e. 8200B, 6010B/4700A) and number of containers provided for each (i.e. 12/60A - 3, 6010B 74704 - 1)

5.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SF = Sodium Hydroxide, SA = Sulfuric Acid, AA = Acetic Acid, HN = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

6.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	As = Arsenic	Hg = Mercury	Se = Selenium
Ba = Barium	Cd = Cadmium	Ag = Silver	Cr = Chromium
Mn = Manganese	MR = Misc. RCRA metals	Pb = Lead	

7.) **Characteristics Hazards**

FL = Flammable/ignitable	CO = Corrosive	RE = Reactive
LW = Listed Waste	OT = Other / Unknown	

(i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Other: _____

Description: _____

Additional Remarks: _____

Preservative Type: _____

Sample Collection Time Zone: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Work Order Number: _____
 Phone # 404-506-7116
 Fax # _____

Project/Site Name: Plant Krait - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Client Name: GA Power
 Sample ID: FG-05
 GWC-15

Date Collected: 08-31-22
 Time Collected (Military (hh:mm)): 1530
 Date Received (signed): 09-1-22
 Time Received (signed): 0840
 Date: 09-1-22
 Time: 1055

Total number of containers: 6
 Should this sample be considered: (3) Known or possible hazards: No, (please specify)

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Test	NI	NI	NI	NI	NI	NI	NI
Cl, F, SO ₄ , TDS							
EPA 309, SM, 254OC							
EPA 6020B, 6010D							
Radon 226 & 228							
SV-816 9315, 9320							

Comments: Note: extra sample is required for sample specific QC

field pH = 6.57
 field pH = _____
 field pH = _____
 field pH = _____
 field pH = _____
 field pH = _____
 field pH = _____
 field pH = _____

TAT Requested: Normal Rush Specify: _____ (Subject to Surchage)

Fax Results: Yes No
 Select Deliverable: Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: Ba, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, V, Zn, Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Mountain Other: _____

Chain of Custody Signatures

Refiniquished By (Signed)	Date	Received by (signed)	Date	Time
[Signature]	9-1-22 0840	[Signature]	9-1-22	0840
[Signature]	9-1-22 1055	[Signature]	9-1-22	1055

For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, ED = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4) Matrix Codes: WD=Drinking Water, WC=Groundwater, NS=Surface Water, WY=Waste Water, WL=Lachase, SO=Soil, SSS=Soil, SS=Sludge, WQ=Water Quality Control Matrix
 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 4010B/470A) and number of containers provided for each (i.e. 8260B - 3, 4010B/470A - 1).
 6) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Salicylic Acid, AA = Ascorbic Acid, HY = Home, ST = Sodium Thiosulfate. If no preservative is added = leave field blank.
 7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristics Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, vermiculite, irritants, other misc. health hazards, etc.) Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: GPC SDG/AR/COC/Work Order: 591783, 591785
 Received By: PL Date Received: 9/1/22

Carrier and Tracking Number _____
 Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM/mR/Hr</u> Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures recorded in Celsius TEMP: <u>3</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>1R3-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials EM Date 09/06/22 Page 1 of 1

List of current GEL Certifications as of 19 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-137
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 19 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-137
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

December 08, 2022

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Orders: 591785 and 591893

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01, 2022 and September 02, 2022. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package has been revised to report new MDC values for the Ra-226+228 Sum results.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Edith Kent for
Erin Trent
Project Manager

Purchase Order: GPC82177-0001
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

**Certificate of Analysis Report
for**

GPCC001 Georgia Power Company

Client SDG: 591785 GEL Work Order: 591785

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.



Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 591893 GEL Work Order: 591893

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.



Reviewed by _____

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-12
Sample ID: 591785001
Matrix: WG
Collect Date: 30-AUG-22
Receive Date: 01-SEP-22
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.42	+/-1.47	2.29	+/-1.59	3.00	pCi/L			JE1	09/27/22	1220	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.37	+/-1.51	2.29	+/-1.63		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.952	+/-0.358	0.251	+/-0.387	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	84.5	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-13
 Sample ID: 591785002
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.01	+/-1.11	1.86	+/-1.14	3.00	pCi/L			JE1	09/27/22	1220	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.90	+/-1.16	1.86	+/-1.20		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.896	+/-0.320	0.214	+/-0.369	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	87.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-14
 Sample ID: 591785003
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.68	+/-1.17	1.85	+/-1.24	3.00	pCi/L			JE1	09/27/22	1220	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.62	+/-1.22	1.85	+/-1.31		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.932	+/-0.362	0.308	+/-0.425	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	90.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-20
 Sample ID: 591785004
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.60	+/-1.04	1.36	+/-1.23	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.95	+/-1.16	1.36	+/-1.39		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.35	+/-0.516	0.220	+/-0.652	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	93.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-21

Project: GPCC00102

Sample ID: 591785005

Client ID: GPCC001

Matrix: WG

Collect Date: 30-AUG-22

Receive Date: 01-SEP-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.03	+/-1.08	1.80	+/-1.11	3.00	pCi/L			JE1	09/29/22	1050	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.56	+/-1.16	1.80	+/-1.23		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.53	+/-0.425	0.331	+/-0.539	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	90.4	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-25D
 Sample ID: 591785006
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.395	+/-0.956	1.70	+/-0.961	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.645	+/-0.987	1.70	+/-0.993		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.250	+/-0.245	0.384	+/-0.250	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	91.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-02
 Sample ID: 591785007
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.22	+/-0.869	1.34	+/-0.922	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.85	+/-0.925	1.34	+/-0.987		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.631	+/-0.318	0.395	+/-0.353	1.00	pCi/L			LXP1	09/28/22	0732	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	89.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-01
 Sample ID: 591785008
 Matrix: WQ
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.0335	+/-1.10	2.04	+/-1.10	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.377	+/-1.13	2.04	+/-1.13		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.377	+/-0.242	0.262	+/-0.252	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	86.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-11
 Sample ID: 591785009
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.08	+/-1.25	1.73	+/-1.48	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		6.34	+/-1.40	1.73	+/-1.77		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		3.26	+/-0.628	0.291	+/-0.969	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	89.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-23D
 Sample ID: 591785010
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.03	+/-0.932	1.51	+/-0.967	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.79	+/-0.987	1.51	+/-1.03		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.761	+/-0.324	0.253	+/-0.345	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	87.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Address : 241 Ralph McGill Blvd NE, Bin 10160

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-8
 Sample ID: 591785011
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.07	+/-1.14	1.90	+/-1.17	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.97	+/-1.19	1.90	+/-1.23		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.894	+/-0.356	0.390	+/-0.398	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	86.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWA-7
 Sample ID: 591785012
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.66	+/-1.19	1.89	+/-1.26	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.75	+/-1.25	1.89	+/-1.34		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.09	+/-0.371	0.283	+/-0.451	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	96.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-6R
 Sample ID: 591785013
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.44	+/-1.76	2.97	+/-1.79	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.20	+/-1.82	2.97	+/-1.88		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.76	+/-0.487	0.313	+/-0.555	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	43.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-01
 Sample ID: 591785014
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.833	+/-1.17	2.01	+/-1.19	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.77	+/-1.23	2.01	+/-1.26		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.938	+/-0.380	0.405	+/-0.413	1.00	pCi/L			LXP1	09/28/22	0807	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	94	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-5R
 Sample ID: 591785015
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.35	+/-0.820	1.21	+/-0.886	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.36	+/-0.983	1.21	+/-1.13		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.02	+/-0.542	0.494	+/-0.707	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	97	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-04
 Sample ID: 591785016
 Matrix: WQ
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.219	+/-0.943	1.72	+/-0.945	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.472	+/-0.977	1.72	+/-0.979		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.254	+/-0.253	0.406	+/-0.257	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	88.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWB-4R
 Sample ID: 591785017
 Matrix: WG
 Collect Date: 30-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.67	+/-1.45	2.10	+/-1.72	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.57	+/-1.55	2.10	+/-1.83		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.90	+/-0.558	0.481	+/-0.628	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	95.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-17
 Sample ID: 591785018
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.70	+/-1.32	2.13	+/-1.39	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.72	+/-1.37	2.13	+/-1.44		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.02	+/-0.349	0.348	+/-0.391	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	91.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-22
 Sample ID: 591785019
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.11	+/-0.937	1.51	+/-0.977	3.00	pCi/L			JE1	09/27/22	1221	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.07	+/-1.05	1.51	+/-1.15		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.96	+/-0.472	0.220	+/-0.601	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	90.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-02
 Sample ID: 591785020
 Matrix: WQ
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.239	+/-0.801	1.47	+/-0.803	3.00	pCi/L			JE1	09/27/22	1222	2312611	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.506	+/-0.824	1.47	+/-0.828		pCi/L		1	TON1	09/30/22	1529	2312607	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.267	+/-0.193	0.227	+/-0.199	1.00	pCi/L			LXP1	09/28/22	0839	2312590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312611	83.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-05
 Sample ID: 591785021
 Matrix: WQ
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.0242	+/-1.34	2.46	+/-1.34	3.00	pCi/L			JE1	09/28/22	0844	2312612	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.686	+/-1.39	2.46	+/-1.39		pCi/L		1	TON1	09/30/22	1529	2312608	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.686	+/-0.345	0.309	+/-0.372	1.00	pCi/L			LXP1	09/29/22	0848	2312593	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312612	78.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-15
 Sample ID: 591785022
 Matrix: WG
 Collect Date: 31-AUG-22
 Receive Date: 01-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.60	+/-1.13	1.76	+/-1.20	3.00	pCi/L			JE1	09/28/22	0844	2312612	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.88	+/-1.23	1.76	+/-1.31		pCi/L		1	TON1	09/30/22	1529	2312608	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.28	+/-0.492	0.351	+/-0.535	1.00	pCi/L			LXP1	09/29/22	0920	2312593	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312612	80.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-1
 Sample ID: 591893001
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.243	+/-0.767	1.40	+/-0.769	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.911	+/-0.825	1.40	+/-0.838		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.668	+/-0.303	0.365	+/-0.332	1.00	pCi/L			LXP1	09/28/22	0911	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	91.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-2
 Sample ID: 591893002
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.80	+/-1.17	1.79	+/-1.25	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.09	+/-1.19	1.79	+/-1.28		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.295	+/-0.231	0.326	+/-0.238	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	80.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-9
 Sample ID: 591893003
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.21	+/-0.899	1.40	+/-0.949	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.35	+/-0.965	1.40	+/-1.03		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.14	+/-0.351	0.275	+/-0.393	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	88.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: GWC-16
 Sample ID: 591893004
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.0911	+/-1.07	1.99	+/-1.07	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.64	+/-1.16	1.99	+/-1.19		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.64	+/-0.452	0.324	+/-0.511	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	90.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 Address : 241 Ralph McGill Blvd NE, Bin 10160

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: MW-24D
 Sample ID: 591893005
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.71	+/-1.24	1.76	+/-1.42	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.54	+/-1.27	1.76	+/-1.45		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.825	+/-0.295	0.197	+/-0.318	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	90.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FD-03
 Sample ID: 591893006
 Matrix: WG
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.631	+/-0.849	1.45	+/-0.864	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.963	+/-0.889	1.45	+/-0.906		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.332	+/-0.265	0.398	+/-0.273	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	93.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308

Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: EB-03
 Sample ID: 591893007
 Matrix: WQ
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.344	+/-1.19	2.14	+/-1.20	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.507	+/-1.22	2.14	+/-1.22		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.163	+/-0.250	0.440	+/-0.252	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	79.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE, Bin 10160

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Report Date: December 7, 2022

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: FB-06
 Sample ID: 591893008
 Matrix: WQ
 Collect Date: 01-SEP-22
 Receive Date: 02-SEP-22
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.825	+/-1.31	2.26	+/-1.33	3.00	pCi/L			JE1	09/27/22	0923	2312614	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.15	+/-1.32	2.26	+/-1.34		pCi/L		1	NXL1	09/29/22	1056	2312610	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.324	+/-0.181	0.177	+/-0.193	1.00	pCi/L			LXP1	09/28/22	0942	2312595	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2312614	83.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

- | | |
|---------------------------------------|-----------------------------------|
| DF: Dilution Factor | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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QC Summary

Report Date: December 7, 2022
Page 1 of 3

Client : Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 591785

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time	
Rad Gas Flow												
Batch	2312611											
QC1205183293	591785001	DUP										
Radium-228		2.42		2.40	pCi/L	.713		(0% - 100%)	JE1	09/27/22	12:20	
		Uncert:	+/-1.47	+/-0.993								
		TPU:	+/-1.59	+/-1.16								
QC1205183294	LCS											
Radium-228	43.9			43.5	pCi/L		99.2	(75%-125%)	JE1	09/27/22	12:20	
		Uncert:		+/-3.47								
		TPU:		+/-11.5								
QC1205183292	MB											
Radium-228			U	-0.571	pCi/L				JE1	09/27/22	12:20	
		Uncert:		+/-0.915								
		TPU:		+/-0.915								
Batch	2312612											
QC1205183296	591785022	DUP										
Radium-228		U	1.60	U	0.401	pCi/L	0		N/A	JE1	09/28/22	08:44
		Uncert:	+/-1.13		+/-0.867							
		TPU:	+/-1.20		+/-0.872							
QC1205183297	LCS											
Radium-228	44.2			46.6	pCi/L		105	(75%-125%)	JE1	09/28/22	08:44	
		Uncert:		+/-3.47								
		TPU:		+/-12.2								
QC1205183295	MB											
Radium-228			U	0.547	pCi/L				JE1	09/28/22	09:30	
		Uncert:		+/-1.42								
		TPU:		+/-1.42								
Rad Ra-226												
Batch	2312590											
QC1205183259	591785001	DUP										
Radium-226		0.952		0.880	pCi/L	7.96		(0% - 100%)	LXP1	09/28/22	09:11	
		Uncert:	+/-0.358	+/-0.352								
		TPU:	+/-0.387	+/-0.380								
QC1205183261	LCS											
Radium-226	26.5			28.2	pCi/L		106	(75%-125%)	LXP1	09/28/22	09:11	
		Uncert:		+/-1.87								
		TPU:		+/-5.78								
QC1205183258	MB											
Radium-226			U	0.197	pCi/L				LXP1	09/28/22	08:39	
		Uncert:		+/-0.167								
		TPU:		+/-0.172								
QC1205183260	591785001	MS										
Radium-226	130	0.952		104	pCi/L		79.2	(75%-125%)	LXP1	09/28/22	09:11	

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QC Summary

Workorder: 591785

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Ra-226										
Batch	2312590									
		Uncert:	+/-0.358							+/-7.60
		TPU:	+/-0.387							+/-20.2
Batch	2312593									
QC1205183263	591785022	DUP								
Radium-226			1.28	0.966	pCi/L	28.2	(0% - 100%)	LXP1	09/29/22	10:25
		Uncert:	+/-0.492	+/-0.394						
		TPU:	+/-0.535	+/-0.440						
QC1205183265	LCS									
Radium-226		26.6		20.7	pCi/L		77.9 (75%-125%)	LXP1	09/29/22	10:57
		Uncert:		+/-1.84						
		TPU:		+/-3.78						
QC1205183262	MB									
Radium-226			U	0.306	pCi/L			LXP1	09/29/22	10:25
		Uncert:		+/-0.353						
		TPU:		+/-0.356						
QC1205183264	591785022	MS								
Radium-226		133	1.28	119	pCi/L		88.3 (75%-125%)	LXP1	09/29/22	10:57
		Uncert:	+/-0.492	+/-10.4						
		TPU:	+/-0.535	+/-20.6						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification

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QC Summary

Workorder: 591785

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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QC Summary

Report Date: December 7, 2022
Page 1 of 2

Client : Georgia Power Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 591893

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2312614										
QC1205183302	591883001 DUP										
Radium-228	U	0.802	U	0.487	pCi/L	0		N/A	JE1	09/27/22	09:23
	Uncert:	+/-1.15		+/-1.24							
	TPU:	+/-1.16		+/-1.25							
QC1205183303	LCS										
Radium-228	43.9			41.8	pCi/L		95.3	(75%-125%)	JE1	09/27/22	09:23
	Uncert:			+/-3.24							
	TPU:			+/-10.9							
QC1205183301	MB										
Radium-228			U	0.716	pCi/L				JE1	09/27/22	09:23
	Uncert:			+/-1.07							
	TPU:			+/-1.09							
Rad Ra-226											
Batch	2312595										
QC1205183271	591613003 DUP										
Radium-226		1.03		1.10	pCi/L	6.62		(0% - 100%)	LXP1	09/28/22	10:14
	Uncert:	+/-0.384		+/-0.385							
	TPU:	+/-0.425		+/-0.450							
QC1205183273	LCS										
Radium-226	26.6			21.3	pCi/L		80	(75%-125%)	LXP1	09/28/22	10:14
	Uncert:			+/-1.47							
	TPU:			+/-3.62							
QC1205183270	MB										
Radium-226			U	0.258	pCi/L				LXP1	09/28/22	10:14
	Uncert:			+/-0.245							
	TPU:			+/-0.248							
QC1205183272	591613003 MS										
Radium-226	135	1.03		106	pCi/L		77.4	(75%-125%)	LXP1	09/28/22	10:14
	Uncert:	+/-0.384		+/-7.23							
	TPU:	+/-0.425		+/-18.3							

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded

GEL LABORATORIES LLC

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QC Summary

Workorder: 591893

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
J										
J										
K										
L										
M										
M										
N/A										
N1										
ND										
NJ										
Q										
R										
U										
UI										
UJ										
UL										
X										
Y										
^										
h										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 591785**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2312607

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591785001	GWC-12
591785002	GWC-13
591785003	GWC-14
591785004	GWC-20
591785005	GWC-21
591785006	MW-25D
591785007	FD-02
591785008	EB-01
591785009	GWC-11
591785010	MW-23D
591785011	GWA-8
591785012	GWA-7
591785013	GWB-6R
591785014	FD-01
591785015	GWB-5R
591785016	FB-04
591785017	GWB-4R
591785018	GWC-17
591785019	GWC-22
591785020	EB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2312608

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
------------------------------	--

591785021 FB-05
591785022 GWC-15

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2312611

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591785001	GWC-12
591785002	GWC-13
591785003	GWC-14
591785004	GWC-20
591785005	GWC-21
591785006	MW-25D
591785007	FD-02
591785008	EB-01
591785009	GWC-11
591785010	MW-23D
591785011	GWA-8
591785012	GWA-7
591785013	GWB-6R
591785014	FD-01
591785015	GWB-5R
591785016	FB-04
591785017	GWB-4R
591785018	GWC-17
591785019	GWC-22
591785020	EB-02
1205183292	Method Blank (MB)
1205183293	591785001(GWC-12) Sample Duplicate (DUP)
1205183294	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Samples 591785004 (GWC-20), 591785012 (GWA-7), 591785013 (GWB-6R), 591785015 (GWB-5R) and 591785017 (GWB-4R) were non-homogenous matrix. Samples were yellow and cloudy 591785004 (GWC-20), 591785012 (GWA-7), 591785013 (GWB-6R), 591785015 (GWB-5R) and 591785017 (GWB-4R).

Technical Information**Recounts**

Sample 591785005 (GWC-21) was re-eluted and recounted to verify sample result. The recount is reported.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2312612

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591785021	FB-05
591785022	GWC-15
1205183295	Method Blank (MB)
1205183296	591785022(GWC-15) Sample Duplicate (DUP)
1205183297	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2312590

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591785001	GWC-12
591785002	GWC-13
591785003	GWC-14
591785004	GWC-20
591785005	GWC-21
591785006	MW-25D
591785007	FD-02
591785008	EB-01

591785009	GWC-11
591785010	MW-23D
591785011	GWA-8
591785012	GWA-7
591785013	GWB-6R
591785014	FD-01
591785015	GWB-5R
591785016	FB-04
591785017	GWB-4R
591785018	GWC-17
591785019	GWC-22
591785020	EB-02
1205183258	Method Blank (MB)
1205183259	591785001(GWC-12) Sample Duplicate (DUP)
1205183260	591785001(GWC-12) Matrix Spike (MS)
1205183261	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Samples 591785004 (GWC-20), 591785012 (GWA-7), 591785014 (FD-01) and 591785017 (GWB-4R) were non-homogenous matrix.

Miscellaneous Information

Additional Comments

The matrix spike, 1205183260 (GWC-12MS), aliquot was reduced to conserve sample volume.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2312593

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591785021	FB-05
591785022	GWC-15
1205183262	Method Blank (MB)
1205183263	591785022(GWC-15) Sample Duplicate (DUP)
1205183264	591785022(GWC-15) Matrix Spike (MS)
1205183265	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information**Additional Comments**

The matrix spike, 1205183264 (GWC-15MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 591893**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2312610

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591893001	GWC-1
591893002	GWC-2
591893003	GWC-9
591893004	GWC-16
591893005	MW-24D
591893006	FD-03
591893007	EB-03
591893008	FB-06

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2312614

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591893001	GWC-1
591893002	GWC-2
591893003	GWC-9
591893004	GWC-16
591893005	MW-24D
591893006	FD-03
591893007	EB-03
591893008	FB-06
1205183301	Method Blank (MB)
1205183302	591883001(NonSDG) Sample Duplicate (DUP)
1205183303	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2312595

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
591893001	GWC-1
591893002	GWC-2
591893003	GWC-9
591893004	GWC-16
591893005	MW-24D
591893006	FD-03
591893007	EB-03
591893008	FB-06
1205183270	Method Blank (MB)
1205183271	591613003(NonSDG) Sample Duplicate (DUP)
1205183272	591613003(NonSDG) Matrix Spike (MS)
1205183273	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

CSU

The blank (See Below) result is greater than 1.65 times the CSU but less than the MDC.

Sample	Analyte	Value
1205183270 (MB)	Radium-226	Blank result > 1.65 CSU

Miscellaneous Information

Additional Comments

The matrix spike, 1205183272 (Non SDG 591613003MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Collected By: Taylor Goble / A. Schmittke Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (1)	Field Filtered (2)	Sample Matrix (3)	Radionuclide (if isotopic info) (4)	Should this sample be considered: (5)	Total number of containers	Sample Analysis Requested (6) (Fill in the number of containers for each test)	Comments
GWC-12	08-30-22	1503	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 3.92
GWC-13	08-31-22	1011	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 4.76
GWC-14	08-30-22	1157	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 5.86
GWC-20	08-30-22	1323	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 6.01
GWC-21	08-30-22	1725	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 5.76
MW-25D	08-31-22	1158	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 6.29
FD-02	08-31-22	---	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = ---
EB-01	08-30-22	1630	G	N	WQ			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = ---
GWC-11	08-31-22	1545	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 4.85
MW-23D	08-31-22	1618	G	N	WG			6	NI EPA 6020B, 6010D Metals * EPA 300, SM 2540C Cl, F, SO4, TDS	field pH = 6.06

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>Taylor Goble</u>	7-1-22	<u>Erin Trent</u>	9-1-22	840
<u>Erin Trent</u>	9-1-22	<u>Erin Trent</u>	9-1-22	1055

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Sample Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Y,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, C = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Seiment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL **Laboratories LLC**
 Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: _____ **GEL Project Manager:** Erin Trent
 Client Name: GA Power Phone # 404-506-7116
 Project/Site Name: Plant Kraft - Grumman Road Landfill Fax # _____
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: Jordan Benson, M. Goble Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
GWA-8	08/30/22	1156	G	N	WG	(7) Known or possible Hazards (isotopic info. yes, please supply)	6	NI	NI	field pH = 4.58
GWA-7	08/30/22	0935	G	Y	WG		7	NI	NI	field pH = 5.98
GWB-6R	08/30/22	1051	G	N	WG		6	NI	NI	field pH = 5.55
FD-01	08/30/22	---	G	N	WG		6	NI	NI	field pH = N/A
GWB-5R	08/30/22	1420	G	N	WG		6	NI	NI	field pH = 5.22
FB-64	08/30/22	1400	G	N	WG		6	NI	NI	field pH = N/A
GWB-4R	08/30/22	1520	G	N	WG		6	NI	NI	field pH = 5.61
GWC-17	08/31/22	1135	G	N	WG		6	NI	NI	field pH = 4.33
GWC-22	08/31/22	1350	G	N	WG		6	NI	NI	field pH = 4.68
FB-02	08/31/22	1405	G	N	WG		6	NI	NI	field pH = N/A

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	0840	<i>[Signature]</i>	09122	840
<i>[Signature]</i>	09122	<i>[Signature]</i>	09122	1055

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mn,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, PD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a -Y- for yes the sample was field filtered or -N- for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Seiment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B, 7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
Client Name: GA Power
Project/Site Name: Plant Kraft - Grumman Road Landfill
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Taylor Goole

Send Results To: SCS & ACC Contacts
 Total number of containers: _____
 Should this sample be considered: _____
 Radiocative (if yes, please supply isotopic info): _____
 Possible Hazards (7) Known or _____

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Comments
FB-05	08-31-22	1530	G	N	WQ WG-TG	field pH = _____
GWC-15	08-31-22	1354	G	N	WG	field pH = 6.57
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____
						field pH = _____

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____

1. *Taylor Goole* 9-1-22 0840
 2. *Erin Trent* 9-1-22 1055
 3. _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 Chain of Custody Number = Client Determined

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F,K,P and U-listed wastes.)
 Waste code(s): _____
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Sc = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 TSCA Regulated PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: GPC SDG/AR/COC/Work Order: 591783, 591785

Received By: PL Date Received: 9/1/22

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/hr Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? Yes No If D or B is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>3</u>
4	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>R3-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	X			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	X			
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials EM Date 09/06/22 Page 1 of 1

GEL Work Order Number: 591893
 Client Name: GA Power
 Phone # 404-506-7116
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Fax #
 Collected By: Taylor Goble
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (hh:mm)	QC Code (1)	Field Filtered (2)	Sample Matrix (4)	Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	EPA 300, SM 2540C	EPA 6020B, 6010D	Disolved Metals *	EPA 6020B, 6010D	Radium 226 & 228 SW-846 9315, 9320	Preservative Type (6)	Comments
GWC-1	09-01-22	1319	G	N	WG			6	✓	✓	✓	✓	✓	<-- Preservative Type (6)	Note: extra sample is required for sample specific QC
GWC-2	09-01-22	1425	G	N	WG			6	✓	✓	✓	✓	✓	field pH = 5.80	
GWC-9	09-01-22	0924	G	N	WG			6	✓	✓	✓	✓	✓	field pH = 4.73	
GWC-16	09-01-22	1046	G	N	WG			6	✓	✓	✓	✓	✓	field pH = 4.60	
MW-2AD	09-01-22	1159	G	N	WG			6	✓	✓	✓	✓	✓	field pH = 5.37	
FB-03	09-01-22	1400	G	N	WQ			6	✓	✓	✓	✓	✓	field pH = 6.08	
FB-06	09-01-22	1030	G	N	WQ			6	✓	✓	✓	✓	✓	field pH = --	
								6	✓	✓	✓	✓	✓	field pH = --	
								6	✓	✓	✓	✓	✓	field pH = --	
								6	✓	✓	✓	✓	✓	field pH = --	
								6	✓	✓	✓	✓	✓	field pH = --	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>Taylor Goble</u>	9-2-22	<u>[Signature]</u>	9-2-22	0822
<u>[Signature]</u>	9-2-22	<u>[Signature]</u>	9-2-22	1015

TAT Requested: Normal: Rush: Specify: (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Ti,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=L-Leachate, SO=Soil, SE=Sediment, SI=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s):
RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Hg = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
TSCA Regulated
 PCB = Polychlorinated biphenyls
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: G PLL SDG/AR/COC/Work Order: 591 891 / 591 893
 Received By: PL Date Received: 9/2/22

Carrier and Tracking Number
 Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>1123-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		<input checked="" type="checkbox"/>		If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) ✓
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
	Sample ID's and containers affected:				
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials EM Date 09/06/22 Page 1 of 1

List of current GEL Certifications as of 07 December 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

APPENDIX A

*Laboratory Data Validations
August 2022 Monitoring Event*

LEVEL 2A LABORATORY DATA VALIDATIONS

**Grumman Road
Semiannual Event
August 2022**

Georgia Power Company – Grumman Road Quality Control Review of Analytical Data – August 2022

This narrative presents results of the Quality Control (QC) review performed on analytical data submitted by GEL Laboratories LLC, Charleston for groundwater samples collected at Grumman Road between August 30, 2022 and September 1, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA Method 903.1), and Radium-228 (USEPA Method 904.0).

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, except for boron and radium-226 on GWC-15 (591783022) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, except for boron and radium-226 on GWC-13 (591783002) and boron, molybdenum, and total dissolved solids (TDS) on MW-24D (591891005) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met.
- Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- U:** The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample GWC-15 (591783022) was qualified as estimated (J) for boron and radium-226 as the laboratory relative percent differences (RPDs) exceeded QC criteria (24.3% and 28.2%, respectively, above limit of 20).
- Samples GWC-13 (591783002) and FD-02 (591783007) as well as samples MW-24D (591891005) and FD-03 (591891006) were qualified as estimated (J) for boron as the field RPDs exceeded QC criteria (40.6% and 36.3%, respectively, above limit of 20).
- Samples GWC-13 (591783002) and FD-02 (591783007) were qualified as estimated (J) for radium-226 as the field RPD exceeded QC criteria (34.7% above limit of 20).
- Samples MW-24D (591891005) and FD-03 (591891006) were qualified as estimated (J) for molybdenum and TDS as the field RPDs exceeded QC criteria (27.4% and 33.3%, respectively, above limit of 20).
- Certain molybdenum and vanadium results were qualified as non-detect (U) due to the analyte(s) being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was below the RL, the method detection limit (MDL) was raised to the blank detection as part of the qualification process.
- Certain radium-226 results were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was below the RL, the minimum detectable concentration (MDC) was raised to the blank detection as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between August 30, 2022 and September 1, 2022 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Grumman Road Private Industrial Landfill
2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
Georgia Power Company – Grumman Road
Sample Summary Table – August 2022

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1, 904.0)
591891	GWC-1	9/1/2022	591891001	WG		X	X	X	
591893	GWC-1	9/1/2022	591893001	WG					X
591891	GWC-2	9/1/2022	591891002	WG		X	X	X	
591893	GWC-2	9/1/2022	591893002	WG					X
591891	GWC-9	9/1/2022	591891003	WG		X	X	X	
591893	GWC-9	9/1/2022	591893003	WG					X
591891	GWC-16	9/1/2022	591891004	WG		X	X	X	
591893	GWC-16	9/1/2022	591893004	WG					X
591891	MW-24D	9/1/2022	591891005	WG		X	X	X	
591893	MW-24D	9/1/2022	591893005	WG					X
591891	FD-03	9/1/2022	591891006	WG	FD (MW-24D)	X	X	X	
591893	FD-03	9/1/2022	591893006	WG	FD (MW-24D)				X
591891	EB-03	9/1/2022	591891007	WQ	EB	X	X	X	
591893	EB-03	9/1/2022	591893007	WQ	EB				X
591891	FB-06	9/1/2022	591891008	WQ	FB	X	X	X	
591893	FB-06	9/1/2022	591893008	WQ	FB				X
591783	GWC-12	8/30/2022	591783001	WG		X	X	X	
591785	GWC-12	8/30/2022	591857001	WG					X
591783	GWC-13	8/31/2022	591783002	WG		X	X	X	
591785	GWC-13	8/31/2022	591785002	WG					X
591783	GWC-14	8/30/2022	591783003	WG		X	X	X	
591785	GWC-14	8/30/2022	591785003	WG					X
591783	GWC-20	8/30/2022	591783004	WG		X	X	X	
591785	GWC-20	8/30/2022	591785004	WG					X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

Grumman Road Private Industrial Landfill
 2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – August 2022

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6010D, 6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1, 904.0)
591783	GWC-21	8/30/2022	591783005	WG		X	X	X	
591785	GWC-21	8/30/2022	591785005	WG					X
591783	MW-25D	8/31/2022	591783006	WG		X	X	X	
591785	MW-25D	8/31/2022	591785006	WG					X
591783	FD-02	8/31/2022	591783007	WG	FD (GWC-13)	X	X	X	
591785	FD-02	8/31/2022	591785007	WG	FD (GWC-13)				X
591783	EB-01	8/30/2022	591783008	WQ	EB	X	X	X	
591785	EB-01	8/30/2022	591785008	WQ	EB				X
591783	GWC-11	8/31/2022	591783009	WG		X	X	X	
591785	GWC-11	8/31/2022	591785009	WG					X
591783	MW-23D	8/31/2022	591783010	WG		X	X	X	
591785	MW-23D	8/31/2022	591785010	WG					X
591783	GWA-8	8/30/2022	591783011	WG		X	X	X	
591785	GWA-8	8/30/2022	591785011	WG					X
591783	GWA-7	8/30/2022	591783012	WG		X	X	X	
591785	GWA-7	8/30/2022	591785012	WG					X
591783	GWB-6R	8/30/2022	591783013	WG		X	X	X	
591785	GWB-6R	8/30/2022	591785013	WG					X
591783	FD-01	8/30/2022	591783014	WG	FD (GWA-8)	X	X	X	
591785	FD-01	8/30/2022	591785014	WG	FD (GWA-8)				X
591783	GWB-5R	8/30/2022	591783015	WG		X	X	X	
591785	GWB-5R	8/30/2022	591785015	WG					X
591783	FB-04	8/30/2022	591783016	WQ	FB	X	X	X	
591785	FB-04	8/30/2022	591785016	WQ	FB				X
591783	GWB-4R	8/30/2022	591783017	WG		X	X	X	
591785	GWB-4R	8/30/2022	591785017	WG					X

Abbreviations:
 EB – Equipment Blank
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Grumman Road Private Industrial Landfill
 2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – August 2022

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6010D, 6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1, 904.0)
591783	GWC-17	8/31/2022	591783018	WG		X	X	X	
591785	GWC-17	8/31/2022	591785018	WG					X
591783	GWC-22	8/31/2022	591783019	WG		X	X	X	
591785	GWC-22	8/31/2022	591785019	WG					X
591783	EB-02	8/31/2022	591783020	WQ	EB	X	X	X	
591785	EB-02	8/31/2022	591785020	WQ	EB				X
591783	FB-05	8/31/2022	591783021	WQ	FB	X	X	X	
591785	FB-05	8/31/2022	591785021	WQ	FB				X
591783	GWC-15	8/31/2022	591783022	WG		X	X	X	
591785	GWC-15	8/31/2022	591785022	WG					X
591783	GWA-7	8/30/2022	591783023	WG		X			

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

Grumman Road Private Industrial Landfill
 2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Georgia Power Company – Grumman Road
 Qualifier Summary Table – August 2022

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
591891	GWC-1	Molybdenum		0.000271	U	Blank detection
591891	GWC-16	Molybdenum		0.000271	U	Blank detection
591891	MW-24D	Molybdenum		0.000271	U	Blank detection
591891	FD-03	Molybdenum		0.000271	U	Blank detection
591891	GWC-1	Vanadium		0.00388	U	Blank detection
591891	GWC-2	Vanadium		0.00388	U	Blank detection
591891	GWC-9	Vanadium		0.00388	U	Blank detection
591891	GWC-16	Vanadium		0.00388	U	Blank detection
591891	MW-24D	Vanadium		0.00388	U	Blank detection
591891	FD-03	Vanadium		0.00388	U	Blank detection
591891	EB-03	Vanadium		0.00388	U	Blank detection
591891	FB-06	Vanadium		0.00388	U	Blank detection
591893	MW-24D	Radium-226		0.258	U	Blank detection
591893	FB-06	Radium-226		0.258	U	Blank detection
591783	GWC-15	Boron			J	RPD exceeds lab goal
591785	GWC-15	Radium-226			J	RPD exceeds lab goal
591783	GWC-13	Boron			J	RPD exceeds field goal
591783	FD-02	Boron			J	RPD exceeds field goal
591891	MW-24D	Boron			J	RPD exceeds field goal
591891	FD-03	Boron			J	RPD exceeds field goal
591891	MW-24D	Molybdenum			J	RPD exceeds field goal
591891	FD-03	Molybdenum			J	RPD exceeds field goal
591891	MW-24D	TDS			J	RPD exceeds field goal
591891	FD-03	TDS			J	RPD exceeds field goal
591785	GWC-13	Radium-226			J	RPD exceeds field goal
591785	FD-02	Radium-226			J	RPD exceeds field goal

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 U – Non-Detect Result

APPENDIX A

*Field Sampling Reports
August 2022 Monitoring Event*

Low-Flow Test Report:

Test Date / Time: 8/30/2022 9:05:16 AM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.2 ft Total Depth: 21.2 ft Initial Depth to Water: 5.8 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 6.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time-0935

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/30/2022 9:05 AM	00:00	7.11 pH	26.00 °C	15.84 µS/cm	8.16 mg/L	49.00 NTU	246.4 mV	5.80 ft	225.00 ml/min
8/30/2022 9:10 AM	05:00	5.97 pH	24.56 °C	1,077.0 µS/cm	0.28 mg/L	55.00 NTU	47.9 mV	6.10 ft	225.00 ml/min
8/30/2022 9:15 AM	10:00	5.97 pH	24.42 °C	1,081.2 µS/cm	0.09 mg/L	89.00 NTU	30.4 mV	6.10 ft	225.00 ml/min
8/30/2022 9:20 AM	15:00	5.98 pH	24.38 °C	1,086.9 µS/cm	0.05 mg/L	133.00 NTU	20.4 mV	6.20 ft	225.00 ml/min
8/30/2022 9:25 AM	20:00	5.98 pH	24.27 °C	1,083.2 µS/cm	0.03 mg/L	136.00 NTU	14.4 mV	6.20 ft	225.00 ml/min
8/30/2022 9:30 AM	25:00	5.97 pH	24.29 °C	1,082.8 µS/cm	0.03 mg/L	133.00 NTU	9.2 mV	6.20 ft	225.00 ml/min
8/30/2022 9:35 AM	30:00	5.98 pH	24.24 °C	1,083.6 µS/cm	0.01 mg/L	128.00 NTU	0.1 mV	6.20 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 11:21:27 AM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWA-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 15.8 ft Total Depth: 20.8 ft Initial Depth to Water: 6.16 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 230 ml/min Final Draw Down: 22 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1156, Taylor started well at 0901, switched operators. FD-01 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/30/2022 11:21 AM	00:00	6.34 pH	33.24 °C	2.05 µS/cm	7.19 mg/L	2.02 NTU	58.9 mV	6.16 ft	230.00 ml/min
8/30/2022 11:26 AM	05:00	4.61 pH	27.41 °C	173.94 µS/cm	0.13 mg/L	1.96 NTU	15.3 mV	6.50 ft	230.00 ml/min
8/30/2022 11:31 AM	10:00	4.61 pH	26.80 °C	173.76 µS/cm	0.07 mg/L	1.36 NTU	20.2 mV	6.90 ft	230.00 ml/min
8/30/2022 11:36 AM	15:00	4.63 pH	26.49 °C	169.84 µS/cm	0.06 mg/L	1.53 NTU	22.7 mV	7.30 ft	230.00 ml/min
8/30/2022 11:41 AM	20:00	4.61 pH	26.48 °C	171.05 µS/cm	0.06 mg/L	0.58 NTU	24.8 mV	7.70 ft	230.00 ml/min
8/30/2022 11:46 AM	25:00	4.60 pH	26.68 °C	174.21 µS/cm	0.04 mg/L	0.97 NTU	26.0 mV	7.90 ft	230.00 ml/min
8/30/2022 11:51 AM	30:00	4.58 pH	26.20 °C	178.25 µS/cm	0.03 mg/L	1.02 NTU	26.8 mV	8.00 ft	230.00 ml/min
8/30/2022 11:56 AM	35:00	4.58 pH	26.38 °C	179.29 µS/cm	0.03 mg/L	1.07 NTU	27.2 mV	8.00 ft	230.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 2:55:04 PM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWB-4R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17 ft Total Depth: 27 ft Initial Depth to Water: 14.47 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 6.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1530

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/30/2022 2:55 PM	00:00	5.68 pH	39.13 °C	0.82 µS/cm	5.93 mg/L	4.12 NTU	53.1 mV	14.47 ft	175.00 ml/min
8/30/2022 3:00 PM	05:00	5.67 pH	30.11 °C	1,030.3 µS/cm	0.97 mg/L	3.28 NTU	33.8 mV	14.70 ft	175.00 ml/min
8/30/2022 3:05 PM	10:00	5.65 pH	27.82 °C	1,029.7 µS/cm	0.17 mg/L	4.01 NTU	22.3 mV	14.70 ft	175.00 ml/min
8/30/2022 3:10 PM	15:00	5.66 pH	27.53 °C	989.75 µS/cm	0.78 mg/L	3.44 NTU	18.9 mV	14.80 ft	175.00 ml/min
8/30/2022 3:15 PM	20:00	5.67 pH	27.62 °C	956.20 µS/cm	1.05 mg/L	2.89 NTU	22.5 mV	14.80 ft	175.00 ml/min
8/30/2022 3:20 PM	25:00	5.68 pH	28.02 °C	914.93 µS/cm	1.29 mg/L	3.21 NTU	24.8 mV	14.80 ft	175.00 ml/min
8/30/2022 3:25 PM	30:00	5.67 pH	29.39 °C	924.66 µS/cm	1.23 mg/L	3.39 NTU	22.4 mV	14.80 ft	175.00 ml/min
8/30/2022 3:30 PM	35:00	5.67 pH	27.80 °C	883.91 µS/cm	0.09 mg/L	3.06 NTU	21.4 mV	14.80 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 1:40:13 PM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWB-5R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.5 ft Total Depth: 26.5 ft Initial Depth to Water: 9.39 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time-1420, FB-04 here at 1400

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/30/2022 1:40 PM	00:00	4.80 pH	38.60 °C	0.11 µS/cm	6.40 mg/L	2.63 NTU	67.4 mV	9.39 ft	200.00 ml/min
8/30/2022 1:45 PM	05:00	5.28 pH	27.57 °C	783.75 µS/cm	0.24 mg/L	2.22 NTU	43.5 mV	9.60 ft	200.00 ml/min
8/30/2022 1:50 PM	10:00	5.27 pH	26.13 °C	795.39 µS/cm	0.13 mg/L	1.90 NTU	27.1 mV	9.70 ft	200.00 ml/min
8/30/2022 1:55 PM	15:00	5.27 pH	25.88 °C	795.82 µS/cm	0.09 mg/L	2.31 NTU	17.8 mV	9.70 ft	200.00 ml/min
8/30/2022 2:00 PM	20:00	5.26 pH	25.74 °C	786.76 µS/cm	0.08 mg/L	2.03 NTU	9.8 mV	9.70 ft	200.00 ml/min
8/30/2022 2:05 PM	25:00	5.24 pH	25.80 °C	772.45 µS/cm	0.06 mg/L	1.27 NTU	4.3 mV	9.70 ft	200.00 ml/min
8/30/2022 2:10 PM	30:00	5.22 pH	25.60 °C	802.90 µS/cm	0.05 mg/L	1.31 NTU	1.5 mV	9.70 ft	200.00 ml/min
8/30/2022 2:15 PM	35:00	5.22 pH	25.78 °C	822.47 µS/cm	0.05 mg/L	1.23 NTU	-0.7 mV	9.70 ft	200.00 ml/min
8/30/2022 2:20 PM	40:00	5.22 pH	25.66 °C	834.16 µS/cm	0.04 mg/L	1.46 NTU	-2.1 mV	9.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 10:21:01 AM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWB-6R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.7 ft Total Depth: 22.7 ft Initial Depth to Water: 6.96 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1051

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/30/2022 10:21 AM	00:00	6.95 pH	28.79 °C	0.61 µS/cm	7.74 mg/L	5.00 NTU	29.3 mV	6.96 ft	200.00 ml/min
8/30/2022 10:26 AM	05:00	5.57 pH	26.73 °C	1,742.4 µS/cm	0.38 mg/L	4.11 NTU	50.2 mV	7.00 ft	200.00 ml/min
8/30/2022 10:31 AM	10:00	5.57 pH	26.29 °C	1,728.4 µS/cm	0.21 mg/L	3.85 NTU	43.1 mV	7.10 ft	200.00 ml/min
8/30/2022 10:36 AM	15:00	5.56 pH	26.20 °C	1,724.9 µS/cm	0.14 mg/L	2.18 NTU	38.4 mV	7.10 ft	200.00 ml/min
8/30/2022 10:41 AM	20:00	5.55 pH	26.24 °C	1,756.6 µS/cm	0.09 mg/L	2.03 NTU	35.3 mV	7.10 ft	200.00 ml/min
8/30/2022 10:46 AM	25:00	5.55 pH	26.14 °C	1,746.3 µS/cm	0.06 mg/L	1.88 NTU	32.1 mV	7.10 ft	200.00 ml/min
8/30/2022 10:51 AM	30:00	5.55 pH	26.15 °C	1,750.0 µS/cm	0.05 mg/L	1.25 NTU	30.3 mV	7.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/1/2022 12:49:44 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.2 ft Total Depth: 28.2 ft Initial Depth to Water: 18.77 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sampled at 1319. Cloudy 82 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/1/2022 12:49 PM	00:00	5.50 pH	27.56 °C	260.15 µS/cm	2.87 mg/L	1.90 NTU	103.7 mV	18.85 ft	250.00 ml/min
9/1/2022 12:54 PM	05:00	5.79 pH	24.29 °C	337.76 µS/cm	0.19 mg/L	1.71 NTU	108.1 mV	18.91 ft	250.00 ml/min
9/1/2022 12:59 PM	10:00	5.81 pH	24.21 °C	342.19 µS/cm	0.15 mg/L	1.33 NTU	110.0 mV	18.93 ft	250.00 ml/min
9/1/2022 1:04 PM	15:00	5.81 pH	24.35 °C	340.80 µS/cm	0.12 mg/L	0.99 NTU	111.6 mV	18.93 ft	250.00 ml/min
9/1/2022 1:09 PM	20:00	5.81 pH	24.45 °C	339.97 µS/cm	0.09 mg/L	0.86 NTU	112.8 mV	18.93 ft	250.00 ml/min
9/1/2022 1:14 PM	25:00	5.81 pH	24.48 °C	339.29 µS/cm	0.08 mg/L	0.72 NTU	114.2 mV	18.93 ft	250.00 ml/min
9/1/2022 1:19 PM	30:00	5.80 pH	24.52 °C	338.13 µS/cm	0.07 mg/L	0.69 NTU	115.6 mV	18.93 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/1/2022 1:55:39 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 27.73 ft Total Depth: 32.73 ft Initial Depth to Water: 19.27 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sampled at 1425. Cloudy 84 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/1/2022 1:55 PM	00:00	5.10 pH	29.67 °C	58.72 µS/cm	3.51 mg/L	4.43 NTU	87.9 mV	19.45 ft	250.00 ml/min
9/1/2022 2:00 PM	05:00	4.56 pH	24.71 °C	56.55 µS/cm	0.15 mg/L	2.18 NTU	82.7 mV	19.50 ft	250.00 ml/min
9/1/2022 2:05 PM	10:00	4.64 pH	24.15 °C	55.93 µS/cm	0.10 mg/L	2.11 NTU	81.5 mV	19.50 ft	250.00 ml/min
9/1/2022 2:10 PM	15:00	4.66 pH	23.75 °C	55.89 µS/cm	0.08 mg/L	1.75 NTU	80.5 mV	19.50 ft	250.00 ml/min
9/1/2022 2:15 PM	20:00	4.67 pH	23.87 °C	55.07 µS/cm	0.07 mg/L	1.65 NTU	80.0 mV	19.50 ft	250.00 ml/min
9/1/2022 2:20 PM	25:00	4.70 pH	24.02 °C	54.87 µS/cm	0.06 mg/L	1.30 NTU	78.5 mV	19.50 ft	250.00 ml/min
9/1/2022 2:25 PM	30:00	4.73 pH	23.96 °C	54.72 µS/cm	0.06 mg/L	1.36 NTU	77.8 mV	19.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 2:36:12 PM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22.4 ft Total Depth: 27.4 ft Initial Depth to Water: 8.62 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 11.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 224 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, no sample, well purged dry, allow for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/31/2022 2:36 PM	00:00	4.97 pH	41.55 °C	0.45 µS/cm	6.02 mg/L	2.52 NTU	94.0 mV	8.62 ft	150.00 ml/min
8/31/2022 2:41 PM	05:00	4.76 pH	26.88 °C	107.42 µS/cm	0.20 mg/L	1.02 NTU	53.9 mV	9.80 ft	150.00 ml/min
8/31/2022 2:46 PM	10:00	4.71 pH	25.15 °C	111.32 µS/cm	0.17 mg/L	1.57 NTU	46.0 mV	10.60 ft	150.00 ml/min
8/31/2022 2:51 PM	15:00	4.72 pH	24.61 °C	112.01 µS/cm	0.15 mg/L	2.99 NTU	40.1 mV	12.10 ft	150.00 ml/min
8/31/2022 2:56 PM	20:00	4.72 pH	24.75 °C	112.32 µS/cm	0.12 mg/L	3.21 NTU	36.2 mV	13.80 ft	150.00 ml/min
8/31/2022 3:01 PM	25:00	4.72 pH	24.54 °C	113.79 µS/cm	0.12 mg/L	4.35 NTU	34.3 mV	15.70 ft	150.00 ml/min
8/31/2022 3:06 PM	30:00	4.75 pH	24.30 °C	114.04 µS/cm	0.11 mg/L	4.26 NTU	32.6 mV	16.50 ft	150.00 ml/min
8/31/2022 3:11 PM	35:00	4.77 pH	24.16 °C	114.87 µS/cm	0.12 mg/L	4.99 NTU	31.0 mV	17.40 ft	150.00 ml/min
8/31/2022 3:16 PM	40:00	4.81 pH	24.51 °C	115.30 µS/cm	0.11 mg/L	4.72 NTU	28.1 mV	18.90 ft	150.00 ml/min
8/31/2022 3:21 PM	45:00	4.84 pH	24.60 °C	115.72 µS/cm	0.11 mg/L	5.11 NTU	26.5 mV	20.00 ft	150.00 ml/min
8/31/2022 3:26 PM	50:00	4.84 pH	24.56 °C	115.54 µS/cm	0.11 mg/L	5.62 NTU	26.6 mV	21.70 ft	150.00 ml/min
8/31/2022 3:31 PM	55:00	4.84 pH	24.50 °C	115.10 µS/cm	0.13 mg/L	5.90 NTU	25.8 mV	23.40 ft	150.00 ml/min
8/31/2022 3:36 PM	01:00:00	4.84 pH	24.49 °C	114.50 µS/cm	0.21 mg/L	6.74 NTU	24.7 mV	25.10 ft	150.00 ml/min
8/31/2022 3:41 PM	01:05:00	4.82 pH	24.42 °C	113.75 µS/cm	0.37 mg/L	6.21 NTU	25.6 mV	25.60 ft	150.00 ml/min
8/31/2022 3:46 PM	01:10:00	4.87 pH	24.38 °C	112.41 µS/cm	1.52 mg/L	6.57 NTU	25.3 mV	26.40 ft	150.00 ml/min

8/31/2022 3:51 PM	01:15:00	4.95 pH	24.47 °C	110.14 µS/cm	3.22 mg/L	6.19 NTU	27.9 mV	27.30 ft	150.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/1/2022 9:09:46 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22.4 ft Total Depth: 27.4 ft Initial Depth to Water: 9.08 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 1500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sampled at 0924. Cloudy 77 degrees. Purged dry on 8-31.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/1/2022 9:09 AM	00:00	4.71 pH	24.19 °C	158.71 µS/cm	0.37 mg/L	3.66 NTU	74.0 mV	9.72 ft	100.00 ml/min
9/1/2022 9:14 AM	05:00	4.63 pH	23.57 °C	148.24 µS/cm	0.19 mg/L	3.38 NTU	58.3 mV	10.14 ft	100.00 ml/min
9/1/2022 9:19 AM	10:00	4.61 pH	23.60 °C	147.43 µS/cm	0.17 mg/L	2.67 NTU	56.5 mV	10.37 ft	100.00 ml/min
9/1/2022 9:24 AM	15:00	4.60 pH	23.57 °C	147.67 µS/cm	0.15 mg/L	2.40 NTU	53.3 mV	10.37 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 2:30:07 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 17.6 ft Total Depth: 22.6 ft Initial Depth to Water: 12.95 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 9.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 31 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1545. Sunny 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/31/2022 2:30 PM	00:00	4.89 pH	26.62 °C	556.90 µS/cm	0.67 mg/L	9.58 NTU	125.8 mV	12.95 ft	130.00 ml/min
8/31/2022 2:35 PM	05:00	4.90 pH	26.79 °C	572.13 µS/cm	0.52 mg/L	7.47 NTU	115.5 mV	13.70 ft	130.00 ml/min
8/31/2022 2:40 PM	10:00	4.91 pH	26.33 °C	607.17 µS/cm	0.50 mg/L	6.74 NTU	131.4 mV	14.50 ft	130.00 ml/min
8/31/2022 2:45 PM	15:00	4.90 pH	26.42 °C	665.57 µS/cm	0.51 mg/L	5.56 NTU	111.7 mV	15.10 ft	130.00 ml/min
8/31/2022 2:50 PM	20:00	4.89 pH	26.27 °C	738.14 µS/cm	0.55 mg/L	4.50 NTU	129.8 mV	15.50 ft	130.00 ml/min
8/31/2022 2:55 PM	25:00	4.88 pH	25.99 °C	794.65 µS/cm	0.23 mg/L	3.16 NTU	142.6 mV	15.50 ft	130.00 ml/min
8/31/2022 3:00 PM	30:00	4.87 pH	26.36 °C	847.59 µS/cm	0.21 mg/L	2.69 NTU	129.8 mV	15.50 ft	130.00 ml/min
8/31/2022 3:05 PM	35:00	4.86 pH	26.47 °C	886.21 µS/cm	0.22 mg/L	2.64 NTU	133.2 mV	15.50 ft	130.00 ml/min
8/31/2022 3:10 PM	40:00	4.86 pH	25.92 °C	906.05 µS/cm	0.22 mg/L	2.45 NTU	138.3 mV	15.50 ft	130.00 ml/min
8/31/2022 3:15 PM	45:00	4.85 pH	26.05 °C	955.75 µS/cm	0.20 mg/L	3.04 NTU	141.8 mV	15.50 ft	130.00 ml/min
8/31/2022 3:20 PM	50:00	4.85 pH	26.11 °C	975.08 µS/cm	0.19 mg/L	2.76 NTU	145.6 mV	15.50 ft	130.00 ml/min
8/31/2022 3:25 PM	55:00	4.85 pH	26.11 °C	1,011.7 µS/cm	0.19 mg/L	2.64 NTU	182.3 mV	15.50 ft	130.00 ml/min
8/31/2022 3:30 PM	01:00:00	4.85 pH	25.97 °C	1,040.3 µS/cm	0.19 mg/L	2.46 NTU	188.7 mV	15.50 ft	130.00 ml/min
8/31/2022 3:35 PM	01:05:00	4.84 pH	26.06 °C	1,071.7 µS/cm	0.18 mg/L	2.54 NTU	156.3 mV	15.50 ft	130.00 ml/min
8/31/2022 3:40 PM	01:10:00	4.85 pH	26.10 °C	1,093.6 µS/cm	0.17 mg/L	2.43 NTU	192.9 mV	15.50 ft	130.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/30/2022 2:23:20 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 21.7 ft Total Depth: 26.7 ft Initial Depth to Water: 12.5 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 8800 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1503. Cloudy 85 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/30/2022 2:23 PM	00:00	4.30 pH	30.69 °C	737.90 µS/cm	3.64 mg/L	1.54 NTU	134.5 mV	12.91 ft	220.00 ml/min
8/30/2022 2:28 PM	05:00	4.10 pH	26.06 °C	750.50 µS/cm	0.10 mg/L	1.30 NTU	133.7 mV	12.97 ft	220.00 ml/min
8/30/2022 2:33 PM	10:00	4.09 pH	25.76 °C	784.07 µS/cm	0.05 mg/L	0.98 NTU	133.1 mV	13.01 ft	220.00 ml/min
8/30/2022 2:38 PM	15:00	4.06 pH	25.55 °C	789.91 µS/cm	0.02 mg/L	0.61 NTU	131.9 mV	13.02 ft	220.00 ml/min
8/30/2022 2:43 PM	20:00	3.98 pH	25.61 °C	837.29 µS/cm	0.02 mg/L	0.55 NTU	131.9 mV	13.02 ft	220.00 ml/min
8/30/2022 2:48 PM	25:00	3.95 pH	25.46 °C	894.09 µS/cm	0.01 mg/L	0.50 NTU	130.2 mV	13.02 ft	220.00 ml/min
8/30/2022 2:53 PM	30:00	3.94 pH	25.57 °C	913.71 µS/cm	0.01 mg/L	0.42 NTU	129.3 mV	13.02 ft	220.00 ml/min
8/30/2022 2:58 PM	35:00	3.92 pH	25.68 °C	928.36 µS/cm	0.00 mg/L	0.41 NTU	127.9 mV	13.02 ft	220.00 ml/min
8/30/2022 3:03 PM	40:00	3.92 pH	25.78 °C	924.84 µS/cm	0.01 mg/L	0.33 NTU	128.1 mV	13.02 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 9:36:30 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 19.5 ft Total Depth: 24.53 ft Initial Depth to Water: 14.27 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 9100 ml Flow Cell Volume: 90 ml Final Flow Rate: 260 ml/min Final Draw Down: 0.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1011. Sunny 83 degrees. FD-02 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/31/2022 9:36 AM	00:00	7.00 pH	32.15 °C	41.48 µS/cm	6.35 mg/L	4.13 NTU	128.6 mV	14.45 ft	260.00 ml/min
8/31/2022 9:41 AM	05:00	6.61 pH	25.96 °C	43.03 µS/cm	5.25 mg/L	3.47 NTU	129.9 mV	14.60 ft	260.00 ml/min
8/31/2022 9:46 AM	10:00	4.88 pH	25.10 °C	111.40 µS/cm	2.12 mg/L	3.31 NTU	124.0 mV	14.60 ft	260.00 ml/min
8/31/2022 9:51 AM	15:00	4.83 pH	24.59 °C	120.24 µS/cm	0.99 mg/L	1.99 NTU	119.7 mV	14.60 ft	260.00 ml/min
8/31/2022 9:56 AM	20:00	4.81 pH	24.79 °C	117.73 µS/cm	0.51 mg/L	1.70 NTU	112.9 mV	14.60 ft	260.00 ml/min
8/31/2022 10:01 AM	25:00	4.79 pH	24.74 °C	113.55 µS/cm	0.34 mg/L	1.52 NTU	109.0 mV	14.60 ft	260.00 ml/min
8/31/2022 10:06 AM	30:00	4.77 pH	24.87 °C	110.89 µS/cm	0.25 mg/L	1.26 NTU	106.0 mV	14.60 ft	260.00 ml/min
8/31/2022 10:11 AM	35:00	4.76 pH	24.95 °C	110.25 µS/cm	0.19 mg/L	1.18 NTU	104.0 mV	14.60 ft	260.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 11:15:54 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22 ft Total Depth: 27 ft Initial Depth to Water: 19.45 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 8620.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 210 ml/min Final Draw Down: 0.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1157. Mostly cloudy 81 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/30/2022 11:15 AM	00:00	5.01 pH	26.48 °C	78.54 µS/cm	4.80 mg/L	0.89 NTU	117.7 mV	19.72 ft	210.00 ml/min
8/30/2022 11:16 AM	01:03	4.99 pH	25.59 °C	78.80 µS/cm	4.53 mg/L	0.76 NTU	119.0 mV	19.85 ft	210.00 ml/min
8/30/2022 11:21 AM	06:03	5.31 pH	24.28 °C	198.29 µS/cm	4.02 mg/L	0.71 NTU	116.8 mV	19.85 ft	210.00 ml/min
8/30/2022 11:26 AM	11:03	5.71 pH	24.11 °C	553.70 µS/cm	2.43 mg/L	0.65 NTU	112.3 mV	19.85 ft	210.00 ml/min
8/30/2022 11:31 AM	16:03	5.79 pH	24.05 °C	704.63 µS/cm	1.61 mg/L	0.69 NTU	109.7 mV	19.85 ft	210.00 ml/min
8/30/2022 11:36 AM	21:03	5.82 pH	23.87 °C	765.16 µS/cm	1.36 mg/L	0.55 NTU	108.0 mV	19.85 ft	210.00 ml/min
8/30/2022 11:41 AM	26:03	5.83 pH	23.99 °C	803.27 µS/cm	1.22 mg/L	0.51 NTU	107.4 mV	19.85 ft	210.00 ml/min
8/30/2022 11:46 AM	31:03	5.85 pH	24.17 °C	843.56 µS/cm	1.06 mg/L	0.58 NTU	107.4 mV	19.85 ft	210.00 ml/min
8/30/2022 11:51 AM	36:03	5.86 pH	23.87 °C	867.16 µS/cm	1.00 mg/L	0.72 NTU	106.6 mV	19.85 ft	210.00 ml/min
8/30/2022 11:56 AM	41:03	5.86 pH	23.60 °C	880.86 µS/cm	0.99 mg/L	0.80 NTU	105.9 mV	19.85 ft	210.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 1:24:08 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 21.8 ft Total Depth: 26.8 ft Initial Depth to Water: 19.2 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1354. Mostly cloudy 90 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/31/2022 1:24 PM	00:00	6.52 pH	32.90 °C	566.76 µS/cm	2.72 mg/L	4.02 NTU	127.7 mV	19.51 ft	180.00 ml/min
8/31/2022 1:29 PM	05:00	6.58 pH	25.55 °C	702.65 µS/cm	0.10 mg/L	3.66 NTU	121.2 mV	19.67 ft	180.00 ml/min
8/31/2022 1:34 PM	10:00	6.58 pH	25.04 °C	719.66 µS/cm	0.06 mg/L	3.15 NTU	120.3 mV	19.77 ft	180.00 ml/min
8/31/2022 1:39 PM	15:00	6.58 pH	24.81 °C	715.13 µS/cm	0.03 mg/L	3.37 NTU	117.5 mV	19.81 ft	180.00 ml/min
8/31/2022 1:44 PM	20:00	6.58 pH	24.73 °C	719.96 µS/cm	0.01 mg/L	3.55 NTU	116.3 mV	19.81 ft	180.00 ml/min
8/31/2022 1:49 PM	25:00	6.57 pH	24.65 °C	710.01 µS/cm	0.01 mg/L	3.31 NTU	113.3 mV	19.81 ft	180.00 ml/min
8/31/2022 1:54 PM	30:00	6.57 pH	24.62 °C	709.92 µS/cm	0.01 mg/L	3.45 NTU	110.6 mV	19.81 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/1/2022 10:16:48 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.2 ft Total Depth: 28.2 ft Initial Depth to Water: 20.44 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sampled at 1046. Cloudy 79 degrees. FB-06 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/1/2022 10:16 AM	00:00	4.92 pH	24.80 °C	728.25 µS/cm	1.53 mg/L	2.12 NTU	101.2 mV	20.60 ft	180.00 ml/min
9/1/2022 10:21 AM	05:00	5.13 pH	24.11 °C	1,580.6 µS/cm	0.31 mg/L	1.70 NTU	116.2 mV	20.77 ft	180.00 ml/min
9/1/2022 10:26 AM	10:00	5.18 pH	24.06 °C	1,639.6 µS/cm	0.31 mg/L	1.33 NTU	115.2 mV	20.81 ft	180.00 ml/min
9/1/2022 10:31 AM	15:00	5.27 pH	24.06 °C	1,778.5 µS/cm	0.29 mg/L	1.25 NTU	115.5 mV	20.81 ft	180.00 ml/min
9/1/2022 10:36 AM	20:00	5.32 pH	24.15 °C	1,837.0 µS/cm	0.28 mg/L	1.71 NTU	115.5 mV	20.81 ft	180.00 ml/min
9/1/2022 10:41 AM	25:00	5.35 pH	24.15 °C	1,883.7 µS/cm	0.29 mg/L	1.49 NTU	114.7 mV	20.81 ft	180.00 ml/min
9/1/2022 10:46 AM	30:00	5.37 pH	24.06 °C	1,907.9 µS/cm	0.31 mg/L	1.40 NTU	114.5 mV	20.81 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 9:10:18 AM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 18.5 ft Total Depth: 23.5 ft Initial Depth to Water: 4.87 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 25.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 14.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1135

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/31/2022 9:10 AM	00:00	7.55 pH	29.06 °C	3.69 µS/cm	7.80 mg/L	33.00 NTU	221.5 mV	4.87 ft	175.00 ml/min
8/31/2022 9:15 AM	05:00	6.17 pH	28.55 °C	269.48 µS/cm	0.63 mg/L	25.00 NTU	81.8 mV	5.20 ft	175.00 ml/min
8/31/2022 9:20 AM	10:00	6.16 pH	28.12 °C	272.90 µS/cm	0.38 mg/L	29.00 NTU	82.0 mV	5.60 ft	175.00 ml/min
8/31/2022 9:25 AM	15:00	5.23 pH	27.85 °C	1,278.9 µS/cm	0.25 mg/L	19.00 NTU	91.3 mV	5.80 ft	175.00 ml/min
8/31/2022 9:30 AM	20:00	4.93 pH	27.63 °C	1,479.2 µS/cm	0.19 mg/L	20.00 NTU	85.6 mV	6.00 ft	175.00 ml/min
8/31/2022 9:35 AM	25:00	4.99 pH	27.36 °C	1,225.4 µS/cm	0.16 mg/L	17.00 NTU	75.9 mV	6.10 ft	175.00 ml/min
8/31/2022 9:40 AM	30:00	6.44 pH	30.57 °C	0.77 µS/cm	7.30 mg/L	14.00 NTU	64.1 mV	6.10 ft	175.00 ml/min
8/31/2022 9:45 AM	35:00	6.41 pH	33.46 °C	0.52 µS/cm	7.05 mg/L	11.00 NTU	64.3 mV	6.10 ft	175.00 ml/min
8/31/2022 9:50 AM	40:00	4.96 pH	29.58 °C	1,417.4 µS/cm	0.32 mg/L	7.92 NTU	82.3 mV	6.10 ft	175.00 ml/min
8/31/2022 9:55 AM	45:00	4.96 pH	28.31 °C	1,441.5 µS/cm	0.13 mg/L	8.22 NTU	77.0 mV	6.10 ft	175.00 ml/min
8/31/2022 10:00 AM	50:00	4.96 pH	28.37 °C	1,441.0 µS/cm	0.11 mg/L	9.91 NTU	73.8 mV	6.10 ft	175.00 ml/min
8/31/2022 10:05 AM	55:00	4.92 pH	28.38 °C	1,479.1 µS/cm	0.10 mg/L	7.34 NTU	72.0 mV	6.10 ft	175.00 ml/min
8/31/2022 10:10 AM	01:00:00	6.16 pH	28.71 °C	260.86 µS/cm	0.16 mg/L	5.11 NTU	36.8 mV	6.10 ft	175.00 ml/min
8/31/2022 10:15 AM	01:05:00	6.19 pH	29.19 °C	261.83 µS/cm	0.16 mg/L	5.80 NTU	44.9 mV	6.10 ft	175.00 ml/min
8/31/2022 10:20 AM	01:10:00	6.18 pH	29.48 °C	263.56 µS/cm	0.16 mg/L	6.21 NTU	48.9 mV	6.10 ft	175.00 ml/min

8/31/2022 10:25 AM	01:15:00	4.93 pH	29.11 °C	1,465.6 µS/cm	0.08 mg/L	5.32 NTU	74.2 mV	6.10 ft	175.00 ml/min
8/31/2022 10:30 AM	01:20:00	4.95 pH	29.16 °C	1,309.0 µS/cm	0.07 mg/L	9.31 NTU	67.5 mV	6.10 ft	175.00 ml/min
8/31/2022 10:35 AM	01:25:00	6.17 pH	29.77 °C	250.84 µS/cm	0.15 mg/L	13.00 NTU	39.5 mV	6.10 ft	175.00 ml/min
8/31/2022 10:40 AM	01:30:00	4.97 pH	29.57 °C	1,496.6 µS/cm	0.12 mg/L	15.00 NTU	77.1 mV	6.10 ft	175.00 ml/min
8/31/2022 10:45 AM	01:35:00	6.15 pH	30.42 °C	271.89 µS/cm	0.13 mg/L	15.00 NTU	32.7 mV	6.10 ft	175.00 ml/min
8/31/2022 10:50 AM	01:40:00	6.18 pH	30.24 °C	250.14 µS/cm	0.15 mg/L	17.00 NTU	41.0 mV	6.10 ft	175.00 ml/min
8/31/2022 10:55 AM	01:45:00	4.87 pH	29.21 °C	1,535.8 µS/cm	0.08 mg/L	16.00 NTU	71.9 mV	6.10 ft	175.00 ml/min
8/31/2022 11:00 AM	01:50:00	4.86 pH	29.12 °C	1,540.3 µS/cm	0.06 mg/L	17.00 NTU	68.6 mV	6.10 ft	175.00 ml/min
8/31/2022 11:05 AM	01:55:00	4.86 pH	28.86 °C	1,539.7 µS/cm	0.05 mg/L	16.00 NTU	66.3 mV	6.10 ft	175.00 ml/min
8/31/2022 11:10 AM	02:00:00	4.83 pH	29.63 °C	1,557.9 µS/cm	0.05 mg/L	15.00 NTU	63.7 mV	6.10 ft	175.00 ml/min
8/31/2022 11:15 AM	02:05:00	4.81 pH	30.00 °C	1,579.2 µS/cm	0.04 mg/L	6.37 NTU	61.3 mV	6.10 ft	175.00 ml/min
8/31/2022 11:20 AM	02:10:00	4.45 pH	26.37 °C	2,154.7 µS/cm	0.03 mg/L	5.68 NTU	69.6 mV	6.10 ft	175.00 ml/min
8/31/2022 11:25 AM	02:15:00	4.37 pH	27.64 °C	2,266.3 µS/cm	0.03 mg/L	4.32 NTU	69.1 mV	6.10 ft	175.00 ml/min
8/31/2022 11:30 AM	02:20:00	4.36 pH	27.59 °C	2,222.5 µS/cm	0.03 mg/L	4.79 NTU	68.5 mV	6.10 ft	175.00 ml/min
8/31/2022 11:35 AM	02:25:00	4.33 pH	27.53 °C	2,251.2 µS/cm	0.03 mg/L	4.72 NTU	68.7 mV	6.10 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 12:41:33 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.59 ft Total Depth: 25.59 ft Initial Depth to Water: 20.87 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 8090 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1323. Mostly cloudy 85 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/30/2022 12:41 PM	00:00	6.12 pH	28.36 °C	861.05 µS/cm	2.54 mg/L	8.11 NTU	135.8 mV	20.87 ft	200.00 ml/min
8/30/2022 12:46 PM	05:00	6.06 pH	25.10 °C	1,053.4 µS/cm	0.09 mg/L	7.57 NTU	134.9 mV	21.11 ft	200.00 ml/min
8/30/2022 12:51 PM	10:00	6.01 pH	24.67 °C	1,313.7 µS/cm	0.06 mg/L	4.46 NTU	134.1 mV	21.17 ft	200.00 ml/min
8/30/2022 12:56 PM	15:00	5.97 pH	24.74 °C	1,443.7 µS/cm	0.02 mg/L	3.70 NTU	133.0 mV	21.19 ft	200.00 ml/min
8/30/2022 1:01 PM	20:00	5.98 pH	24.61 °C	1,422.4 µS/cm	0.01 mg/L	3.22 NTU	130.3 mV	21.19 ft	200.00 ml/min
8/30/2022 1:06 PM	25:00	5.99 pH	24.51 °C	1,413.9 µS/cm	0.01 mg/L	2.73 NTU	127.9 mV	21.19 ft	200.00 ml/min
8/30/2022 1:07 PM	25:27	5.99 pH	24.51 °C	1,422.3 µS/cm	0.01 mg/L	2.70 NTU	127.5 mV	21.19 ft	200.00 ml/min
8/30/2022 1:12 PM	30:27	6.01 pH	24.51 °C	1,354.0 µS/cm	0.01 mg/L	2.61 NTU	123.6 mV	21.19 ft	200.00 ml/min
8/30/2022 1:17 PM	35:27	6.01 pH	24.58 °C	1,337.5 µS/cm	0.01 mg/L	2.40 NTU	120.8 mV	21.19 ft	200.00 ml/min
8/30/2022 1:22 PM	40:27	6.01 pH	24.64 °C	1,360.7 µS/cm	0.01 mg/L	2.24 NTU	118.7 mV	21.19 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/30/2022 5:00:43 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: GWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.54 ft Total Depth: 25.54 ft Initial Depth to Water: 20.21 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 5500 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes: Sampled at 1725. Mostly cloudy 87 degrees. Total purge time 70 minutes.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/30/2022 5:00 PM	00:00	5.76 pH	24.51 °C	804.88 µS/cm	2.32 mg/L	0.99 NTU	135.1 mV	20.51 ft	220.00 ml/min
8/30/2022 5:05 PM	05:00	5.76 pH	24.58 °C	921.12 µS/cm	2.32 mg/L	0.91 NTU	134.1 mV	20.51 ft	220.00 ml/min
8/30/2022 5:10 PM	10:00	5.75 pH	24.78 °C	947.61 µS/cm	2.24 mg/L	0.88 NTU	133.9 mV	20.51 ft	220.00 ml/min
8/30/2022 5:15 PM	15:00	5.76 pH	24.80 °C	957.16 µS/cm	2.17 mg/L	0.83 NTU	133.4 mV	20.51 ft	220.00 ml/min
8/30/2022 5:20 PM	20:00	5.75 pH	24.85 °C	973.61 µS/cm	2.05 mg/L	0.76 NTU	133.0 mV	20.51 ft	220.00 ml/min
8/30/2022 5:25 PM	25:00	5.76 pH	24.82 °C	977.36 µS/cm	1.97 mg/L	0.71 NTU	131.9 mV	20.51 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 1:15:11 PM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 14.21 ft Total Depth: 19.21 ft Initial Depth to Water: 8.88 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 17 ft Estimated Total Volume Pumped: 6.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 2.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1350

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/31/2022 1:15 PM	00:00	4.26 pH	41.75 °C	5.00 µS/cm	6.37 mg/L	3.28 NTU	217.0 mV	8.88 ft	175.00 ml/min
8/31/2022 1:20 PM	05:00	4.74 pH	30.43 °C	157.95 µS/cm	0.45 mg/L	3.11 NTU	68.1 mV	9.10 ft	175.00 ml/min
8/31/2022 1:25 PM	10:00	4.70 pH	28.69 °C	186.35 µS/cm	0.19 mg/L	2.69 NTU	72.8 mV	9.10 ft	175.00 ml/min
8/31/2022 1:30 PM	15:00	4.69 pH	28.20 °C	192.53 µS/cm	0.14 mg/L	2.44 NTU	74.9 mV	9.10 ft	175.00 ml/min
8/31/2022 1:35 PM	20:00	4.69 pH	27.88 °C	197.30 µS/cm	0.12 mg/L	2.30 NTU	76.4 mV	9.10 ft	175.00 ml/min
8/31/2022 1:40 PM	25:00	4.68 pH	27.91 °C	203.20 µS/cm	0.10 mg/L	2.54 NTU	77.2 mV	9.10 ft	175.00 ml/min
8/31/2022 1:45 PM	30:00	4.68 pH	28.01 °C	207.30 µS/cm	0.09 mg/L	2.80 NTU	78.7 mV	9.10 ft	175.00 ml/min
8/31/2022 1:50 PM	35:00	4.68 pH	27.61 °C	208.06 µS/cm	0.08 mg/L	2.75 NTU	79.4 mV	9.10 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 3:23:27 PM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.3 ft Total Depth: 63.3 ft Initial Depth to Water: 22.73 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 13750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1618. Mostly cloudy 90 degrees. FB-05 poured here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/31/2022 3:23 PM	00:00	6.70 pH	29.28 °C	196.56 µS/cm	5.53 mg/L	3.11 NTU	78.1 mV	22.83 ft	250.00 ml/min
8/31/2022 3:28 PM	05:00	6.25 pH	24.31 °C	226.06 µS/cm	0.21 mg/L	2.43 NTU	26.2 mV	22.87 ft	250.00 ml/min
8/31/2022 3:33 PM	10:00	6.26 pH	24.11 °C	225.97 µS/cm	0.11 mg/L	2.50 NTU	8.4 mV	22.87 ft	250.00 ml/min
8/31/2022 3:38 PM	15:00	6.26 pH	24.19 °C	225.83 µS/cm	0.08 mg/L	3.43 NTU	-1.2 mV	22.87 ft	250.00 ml/min
8/31/2022 3:43 PM	20:00	6.26 pH	24.55 °C	225.76 µS/cm	0.06 mg/L	3.75 NTU	-8.9 mV	22.87 ft	250.00 ml/min
8/31/2022 3:48 PM	25:00	6.25 pH	24.42 °C	232.65 µS/cm	0.04 mg/L	3.99 NTU	-13.1 mV	22.87 ft	250.00 ml/min
8/31/2022 3:53 PM	30:00	6.10 pH	24.30 °C	274.21 µS/cm	0.03 mg/L	2.94 NTU	-0.2 mV	22.87 ft	250.00 ml/min
8/31/2022 3:58 PM	35:00	6.09 pH	24.07 °C	261.04 µS/cm	0.02 mg/L	2.70 NTU	6.9 mV	22.87 ft	250.00 ml/min
8/31/2022 4:03 PM	40:00	6.08 pH	23.88 °C	258.68 µS/cm	0.02 mg/L	2.55 NTU	11.5 mV	22.87 ft	250.00 ml/min
8/31/2022 4:08 PM	45:00	6.08 pH	23.70 °C	239.92 µS/cm	0.01 mg/L	2.42 NTU	13.6 mV	22.87 ft	250.00 ml/min
8/31/2022 4:13 PM	50:00	6.08 pH	23.63 °C	230.35 µS/cm	0.01 mg/L	3.13 NTU	15.7 mV	22.87 ft	250.00 ml/min
8/31/2022 4:18 PM	55:00	6.06 pH	23.52 °C	231.42 µS/cm	0.01 mg/L	3.89 NTU	18.7 mV	22.87 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/1/2022 11:29:06 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.3 ft Total Depth: 66.3 ft Initial Depth to Water: 22.57 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sampled at 1159. Cloudy 80 degrees. FD-03 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/1/2022 11:29 AM	00:00	6.29 pH	28.18 °C	63.13 µS/cm	3.44 mg/L	5.50 NTU	60.3 mV	22.65 ft	300.00 ml/min
9/1/2022 11:34 AM	05:00	6.10 pH	24.26 °C	54.99 µS/cm	0.69 mg/L	4.77 NTU	58.5 mV	22.65 ft	300.00 ml/min
9/1/2022 11:39 AM	10:00	6.09 pH	23.91 °C	55.08 µS/cm	0.63 mg/L	4.25 NTU	59.3 mV	22.65 ft	300.00 ml/min
9/1/2022 11:44 AM	15:00	6.08 pH	23.90 °C	54.85 µS/cm	0.57 mg/L	4.26 NTU	60.2 mV	22.65 ft	300.00 ml/min
9/1/2022 11:49 AM	20:00	6.08 pH	23.72 °C	55.02 µS/cm	0.53 mg/L	4.27 NTU	60.7 mV	22.65 ft	300.00 ml/min
9/1/2022 11:54 AM	25:00	6.08 pH	23.79 °C	54.86 µS/cm	0.54 mg/L	4.27 NTU	60.9 mV	22.65 ft	300.00 ml/min
9/1/2022 11:59 AM	30:00	6.08 pH	23.86 °C	54.81 µS/cm	0.45 mg/L	4.17 NTU	61.2 mV	22.65 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/31/2022 11:28:34 AM

Project: Grumman Road Landfill

Operator Name: Taylor Goble

Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60.2 ft Total Depth: 70.2 ft Initial Depth to Water: 20.79 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.83 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883536
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Test Notes:

Sampled at 1158. Mostly cloudy 89 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/31/2022 11:28 AM	00:00	6.23 pH	29.97 °C	53.09 µS/cm	4.18 mg/L	1.30 NTU	94.9 mV	21.78 ft	150.00 ml/min
8/31/2022 11:33 AM	05:00	6.30 pH	25.23 °C	56.97 µS/cm	4.20 mg/L	1.21 NTU	91.6 mV	22.45 ft	150.00 ml/min
8/31/2022 11:38 AM	10:00	6.32 pH	24.96 °C	57.19 µS/cm	4.19 mg/L	1.17 NTU	90.8 mV	23.12 ft	150.00 ml/min
8/31/2022 11:43 AM	15:00	6.32 pH	25.32 °C	56.93 µS/cm	4.12 mg/L	0.92 NTU	90.5 mV	23.56 ft	150.00 ml/min
8/31/2022 11:48 AM	20:00	6.32 pH	25.53 °C	57.28 µS/cm	4.08 mg/L	0.77 NTU	89.9 mV	23.62 ft	150.00 ml/min
8/31/2022 11:53 AM	25:00	6.31 pH	25.52 °C	56.81 µS/cm	3.83 mg/L	0.73 NTU	91.0 mV	23.62 ft	150.00 ml/min
8/31/2022 11:58 AM	30:00	6.29 pH	25.84 °C	57.27 µS/cm	3.73 mg/L	0.55 NTU	90.2 mV	23.62 ft	150.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX A

*Daily Instrument Calibration Logs
August 2022 Monitoring Event*



Daily Instrument Calibration Log

SITE: Grimman Rd
 TECHNICIAN: A Schmitter

INSTRUMENT S/N: 11090C12353
 INSTRUMENT TYPE: Hach 2100 Q Turbidity Meter
 CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: NA Fresh DI
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2124 EXP. DATE: 8/23
 NTU - LOT # _____ EXP. DATE: _____
 NTU - LOT # _____ EXP. DATE: _____

Calibration Date: 8/31

Calibration Solution	Instrument Reading	
0.0	0.17	NTU
10.0	9.87	NTU
20.0	21.2	NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU



Daily Instrument Calibration Log

SITE: Grumman Road Landfill
TECHNICIAN: Aschnittker

WATER LEVEL: Solinst
WATER LEVEL S/N: 377060

INSTRUMENT S/N: 728566
INSTRUMENT TYPE: _____

CAL. SOLUTION/S:	ID:	LOT #:	EXP. DATE:
	PH 4	16K617	11/23
	PH 7	26C169	3/24
	PH 10	166429	7/23
	Cond	26F806	6/23
	ORR	21140143	4/23
	ID:	LOT #:	EXP. DATE:
	ID:	LOT #:	EXP. DATE:

Calibration Date: 8/31/22
 RDO: 100% sat. = 100.83
 PH: 4.00 = 4.01 7.00 = 7.03 10.00 = 9.99
 CONDUCTIVITY: 1413 = 1392.2
 ORP (mV) 228 = 226.4

ph v 7.00

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____
 ORP (mV) _____

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____
 ORP (mV) _____

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____
 ORP (mV) _____

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____
 ORP (mV) _____



Daily Instrument Calibration Log

SITE: Grumman Road
 TECHNICIAN: T. Goble
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 236986

INSTRUMENT S/N: 883536
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: pH 4 LOT #: 21470032 EXP. DATE: 4/23
 ID: pH 7 LOT #: 266042 EXP. DATE: 7/24
 ID: pH 10 LOT #: 266019 EXP. DATE: 7/24
 ID: Cond LOT #: 21470032 EXP. DATE: 4/23
 ID: ORP LOT #: 21140143 EXP. DATE: 4/23
 ID: _____ LOT #: _____ EXP. DATE: _____
 ID: _____ LOT #: _____ EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 7-30-22
 RDO: 100% sat. = 94.50 **Midday pH check**
 PH: 4.00 = 4.17 7.00 = 7.17 10.00 = 10.20 7.0 = 7.01
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = N/A post recal check ✓
 CONDUCTIVITY: 4490 = 4550
 ORP (mV) 228 = 224.4

Calibration Date: 8-31-22
 RDO: 100% sat. = 99.96 **Midday pH check**
 PH: 4.00 = 4.06 7.00 = 6.99 10.00 = 10.00 7.0 = 7.04
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = N/A post recal check ✓
 CONDUCTIVITY: 4490 = 4396
 ORP (mV) 228 = 220.6

Calibration Date: 9-1-22
 RDO: 100% sat. = 103.81 **Midday pH check**
 PH: 4.00 = 3.99 7.00 = 6.97 10.00 = 10.13 7.0 = 7.03
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = N/A post recal check ✓
 CONDUCTIVITY: 1413 = 1055
 ORP (mV) 228 = 207.2

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: T. Groble

INSTRUMENT S/N: 15040C040490
 INSTRUMENT TYPE: Hach 2100Q
 CAL. SOLUTION: 0 NTU - LOT # ← EXP. DATE: New DI
10 NTU - LOT # 2961801 EXP. DATE: 4/23
20 NTU - LOT # 2684801 EXP. DATE: 4/23

Calibration Date: 8-30-22

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	10.8	NTU
20.0	17.7	NTU

100 = 97.7
800 = 793

Calibration Date: 8-31-22

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	10.9	NTU
20.0	20.5	NTU

100 = 98.0
800 = 796

Calibration Date: 9-1-22

Calibration Solution	Instrument Reading	
0.0	0.28	NTU
10.0	10.8	NTU
20.0	20.3	NTU

100 = 103
800 = 801

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Gummer Rd
 TECHNICIAN: J. Rufford
 WATER LEVEL: 30.45
 WATER LEVEL S/N: 267304

INSTRUMENT S/N: 850751
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 260293 EXP. DATE: 3/24
pH 7 LOT #: 161340 EXP. DATE: 12/23
pH 10 LOT #: 1610654 EXP. DATE: 11/23
COND LOT #: 1610805 EXP. DATE: 11/22
ORP LOT #: 268100 EXP. DATE: 11/22

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 8/30/22

RDO: 100% sat. = 100.2 **Midday pH check**
 PH: 4.00 = 3.77 7.00 = 6.87 10.00 = 10.48 7.0 = 9.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1413
 ORP (mV) 228 = 228

Calibration Date: 8/31/22

RDO: 100% sat. = 100.4 **Midday pH check**
 PH: 4.00 = 9.06 7.00 = 7.08 10.00 = 9.90 7.0 = 7.62
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1437
 ORP (mV) 228 = 226

Calibration Date:

RDO: 100% sat. = **Midday pH check**
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = **Midday pH check**
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = **Midday pH check**
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J. Berkel

INSTRUMENT S/N: 171200063767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # MA ← EXP. DATE: 11/20
10 NTU - LOT # A12012 EXP. DATE: 11/22
20 NTU - LOT # A1207 EXP. DATE: 11/22

Calibration Date: 8/30/22

Calibration Solution	Instrument Reading	
0.0	0.32	NTU
10.0	16.2	NTU
20.0	20.1	NTU

Calibration Date: 8/31/22

Calibration Solution	Instrument Reading	
0.0	0.29	NTU
10.0	9.87	NTU
20.0	20.3	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

APPENDIX A

*Well Inspection Forms
August 2022 Monitoring Event*

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

1 - Location/Identification		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

2 - Protective Outer Casing		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

3 - Surface Pad

		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

4 - Internal Well Casing		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

5 - Sampling (Groundwater Monitoring Wells Only):

		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	N/A	No	No	No

NOTE: N/A - Not Applicable
Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

7 - Corrective actions completed and Notes:

GWC-10 - Cable line hanging onto well pad.

Staff: T. Goble
Date: 8/29/2022

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

1 - Location/Identification		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

2 - Protective Outer Casing		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

3 - Surface Pad

		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

4 - Internal Well Casing		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

5 - Sampling (Groundwater Monitoring Wells Only):

		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	Yes	No	No	No	No	No	No	N/A	N/A

NOTE: N/A - Not Applicable
Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
August 2022 Well Inspection Form**



Permit No.: 025-061D(LI)

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

7 - Corrective actions completed and Notes:

Staff: T. Goble
Date: 8/29/2022

APPENDIX A

*Laboratory Analytical Reports
January 2023 Monitoring Event*

February 16, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 609397

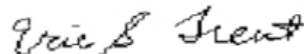
Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609397 GEL Work Order: 609397

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-7 Project: GPCC00102
Sample ID: 609397001 Client ID: GPCC001
Matrix: WG
Collect Date: 31-JAN-23 15:32
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.02			SU			AJ1	01/31/23	1532	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		70.1	0.670	2.00	mg/L		10	HXC1	02/11/23	0453	2378342	2
Fluoride	J	0.0510	0.0330	0.100	mg/L		1	LXA2	02/03/23	2150	2378342	3
Sulfate		7.88	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	0959	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		5.72	0.260	0.750	mg/L	1.00	50	PRB	02/10/23	1126	2378372	5
Sodium		387	4.00	12.5	mg/L	1.00	50					
Aluminum		6.59	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	1934	2378372	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00250	0.00200	0.00500	mg/L	1.00	1					
Barium		0.126	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.33	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0112	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00114	0.000300	0.00100	mg/L	1.00	1					
Iron		2.67	0.0330	0.100	mg/L	1.00	1					
Lead	J	0.00126	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.779	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0152	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000364	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.76	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00443	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.106	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00457	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-7 Project: GPCC00102
Sample ID: 609397001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	4.76	20.0	mg/L		CH6	02/06/23	1330	2379292		7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5 HH2	02/07/23	1513	2379522		8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		672	3.63	10.0	mg/L		EK1	02/13/23	1426	2382679		9
Bicarbonate alkalinity (CaCO3)		672	3.63	10.0	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	3.63	10.0	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	609397001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-8 Project: GPCC00102
Sample ID: 609397002 Client ID: GPCC001
Matrix: WG
Collect Date: 31-JAN-23 16:55
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.60			SU			AJ1	01/31/23	1655	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0842	0.0330	0.100	mg/L	1	LXA2	02/03/23	2251	2378342		2
Chloride		11.0	0.335	1.00	mg/L	5	HXC1	02/11/23	0524	2378342		3
Sulfate		79.3	0.665	2.00	mg/L	5						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1001	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.891	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	1959	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0499	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000206	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		14.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000378	0.000300	0.00100	mg/L	1.00	1					
Iron		4.69	0.0330	0.100	mg/L	1.00	1					
Lead		0.0104	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		2.98	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0203	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.59	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.177	0.00520	0.0150	mg/L	1.00	1	PRB	02/10/23	1249	2378372	6
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-8 Project: GPCC00102
Sample ID: 609397002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		122	2.38	10.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	J	0.0466	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		11.2	1.45	4.00	mg/L			EK1	02/13/23	1436	2382679	9
Bicarbonate alkalinity (CaCO3)		11.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-8	Project:	GPCC00102
Sample ID:	609397002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-6R Project: GPCC00102
Sample ID: 609397003 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 09:20
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.54			SU			AJ1	02/01/23	0920	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		51.6	6.70	20.0	mg/L		100	HXC1	02/11/23	0555	2378342	2
Sulfate		842	13.3	40.0	mg/L		100					
Fluoride	U	ND	0.0330	0.100	mg/L		1	LXA2	02/03/23	2322	2378342	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1006	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.934	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2003	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00420	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0233	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00365	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0228	0.000300	0.00100	mg/L	1.00	1					
Iron		7.93	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.8	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000553	0.000200	0.00100	mg/L	1.00	1					
Potassium		38.0	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00182	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.0201	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0121	0.00330	0.0200	mg/L	1.00	1					
Calcium		60.4	0.400	1.00	mg/L	1.00	5	PRB	02/10/23	1140	2378372	6
Manganese		1.12	0.00500	0.0250	mg/L	1.00	5					
Boron		8.23	0.260	0.750	mg/L	1.00	50	PRB	02/10/23	1142	2378372	7
Sodium		396	4.00	12.5	mg/L	1.00	50					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-6R Project: GPCC00102
Sample ID: 609397003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1570	4.76	20.0	mg/L		CH6	02/06/23	1330	2379292		8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5 HH2	02/07/23	1513	2379522		9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		105	3.63	10.0	mg/L		EK1	02/13/23	1439	2382679		10
Bicarbonate alkalinity (CaCO3)		105	3.63	10.0	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	3.63	10.0	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-6R	Project:	GPCC00102
Sample ID:	609397003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-5R Project: GPCC00102
Sample ID: 609397004 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 10:30
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.81			SU			AJ1	02/01/23	1030	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0546	0.0330	0.100	mg/L	1	LXA2	02/03/23	2353	2378342		2
Chloride		172	1.34	4.00	mg/L	20	HXC1	02/11/23	0727	2378342		3
Sulfate		190	2.66	8.00	mg/L	20						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1008	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		6.19	0.260	0.750	mg/L	1.00	50	PRB	02/10/23	1144	2378372	5
Sodium		352	4.00	12.5	mg/L	1.00	50					
Aluminum		1.28	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2007	2378372	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00295	0.00200	0.00500	mg/L	1.00	1					
Barium		0.101	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		38.3	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00655	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00291	0.000300	0.00100	mg/L	1.00	1					
Iron		12.2	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.312	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000690	0.000200	0.00100	mg/L	1.00	1					
Potassium		14.3	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00187	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.0255	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-5R Project: GPCC00102
Sample ID: 609397004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1240	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		424	3.63	10.0	mg/L			EK1	02/13/23	1442	2382679	9
Bicarbonate alkalinity (CaCO3)		424	3.63	10.0	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	3.63	10.0	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-5R	Project:	GPCC00102
Sample ID:	609397004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-9 Project: GPCC00102
Sample ID: 609397005 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 11:35
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.57			SU			AJ1	02/01/23	1135	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0994	0.0330	0.100	mg/L	1	LXA2	02/04/23	0055	2378342		2
Chloride		18.8	0.335	1.00	mg/L	5	HXC1	02/11/23	0758	2378342		3
Sulfate		25.2	0.665	2.00	mg/L	5						
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1009	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0186	0.00520	0.0150	mg/L	1.00	1	PRB	02/10/23	1233	2378372	5
Aluminum		0.347	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2010	2378372	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.128	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000215	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.44	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000830	0.000300	0.00100	mg/L	1.00	1					
Iron		4.53	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		2.24	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0301	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.43	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		13.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-9 Project: GPCC00102
Sample ID: 609397005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		59.0	2.38	10.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/13/23	1446	2382679	9
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		
8	SM 4500-S (2-) D		
9	SM 2320B		

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-9	Project:	GPCC00102
Sample ID:	609397005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-20 Project: GPCC00102
Sample ID: 609397006 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 14:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.01			SU			AJ1	02/01/23	1400	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		15.3	0.134	0.400	mg/L		2	JLD1	02/04/23	0753	2378276	2
Sulfate		596	6.65	20.0	mg/L		50	JLD1	02/04/23	0823	2378276	3
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	02/03/23	1800	2378276	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1011	2379626	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		11.9	0.520	1.50	mg/L	1.00	100	PRB	02/10/23	1148	2378372	6
Calcium		183	8.00	20.0	mg/L	1.00	100					
Magnesium		70.2	1.00	3.00	mg/L	1.00	100					
Aluminum		0.136	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2014	2378372	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.389	0.00200	0.00500	mg/L	1.00	1					
Barium		0.194	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00503	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.08	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.146	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.384	0.000200	0.00100	mg/L	1.00	1					
Potassium		21.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		46.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00526	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-20 Project: GPCC00102
Sample ID: 609397006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2290	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5	HH2	02/07/23	1513	2379522	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		234	1.45	4.00	mg/L			EK1	02/13/23	1448	2382679	10
Bicarbonate alkalinity (CaCO3)		234	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-20	Project:	GPCC00102
Sample ID:	609397006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-17 Project: GPCC00102
Sample ID: 609397007 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 15:50
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.74			SU			AJ1	02/01/23	1550	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		470	6.70	20.0	mg/L	100		JLD1	02/03/23	2332	2378330	2
Sulfate		547	13.3	40.0	mg/L	100						
Fluoride		0.604	0.0330	0.100	mg/L	1		JLD1	02/03/23	1504	2378330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1013	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.83	0.104	0.300	mg/L	1.00	20	PRB	02/10/23	1150	2378372	5
Calcium		86.8	1.60	4.00	mg/L	1.00	20					
Magnesium		68.0	0.200	0.600	mg/L	1.00	20					
Sodium		300	1.60	5.00	mg/L	1.00	20					
Aluminum		11.3	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2017	2378372	6
Antimony		0.00410	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0262	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00206	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00265	0.000300	0.00100	mg/L	1.00	1					
Iron		23.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00532	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.255	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00484	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.22	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00500	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00583	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-17 Project: GPCC00102
Sample ID: 609397007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1470	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.0	1.45	4.00	mg/L			EK1	02/13/23	1451	2382679	9
Bicarbonate alkalinity (CaCO3)		17.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-17	Project:	GPCC00102
Sample ID:	609397007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-16 Project: GPCC00102
Sample ID: 609397008 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 16:15
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.23			SU			AJ1	02/01/23	1615	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1160	13.3	40.0	mg/L	100	JLD1	02/04/23	0031	2378330		2
Chloride		47.1	0.670	2.00	mg/L	10	JLD1	02/04/23	0002	2378330		3
Fluoride	J	0.0702	0.0330	0.100	mg/L	1	JLD1	02/03/23	1534	2378330		4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1015	2379626	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		17.1	0.520	1.50	mg/L	1.00	100	PRB	02/10/23	1152	2378372	6
Calcium		294	8.00	20.0	mg/L	1.00	100					
Magnesium		90.5	1.00	3.00	mg/L	1.00	100					
Sodium		134	8.00	25.0	mg/L	1.00	100					
Aluminum		0.860	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2021	2378372	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.115	0.00200	0.00500	mg/L	1.00	1					
Barium		0.163	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.649	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.218	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.136	0.000200	0.00100	mg/L	1.00	1					
Potassium		41.7	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00361	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-16 Project: GPCC00102
Sample ID: 609397008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		54.8	1.45	4.00	mg/L			EK1	02/13/23	1455	2382679	10
Bicarbonate alkalinity (CaCO3)		54.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-16	Project:	GPCC00102
Sample ID:	609397008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11 Project: GPCC00102
Sample ID: 609397009 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 16:45
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.71			SU			AJ1	02/01/23	1645	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.165	0.500	mg/L		5	JLD1	02/04/23	0101	2378330	2
Chloride		138	6.70	20.0	mg/L		100	JLD1	02/04/23	0131	2378330	3
Sulfate		1090	13.3	40.0	mg/L		100					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1016	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		4.49	0.520	1.50	mg/L	1.00	100	PRB	02/10/23	1200	2378372	5
Calcium		187	8.00	20.0	mg/L	1.00	100					
Magnesium		87.4	1.00	3.00	mg/L	1.00	100					
Sodium		256	8.00	25.0	mg/L	1.00	100					
Aluminum		0.775	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2032	2378372	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.146	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000926	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00118	0.000300	0.00100	mg/L	1.00	1					
Iron		4.95	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0626	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000613	0.000200	0.00100	mg/L	1.00	1					
Potassium		42.5	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00333	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00373	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11 Project: GPCC00102
Sample ID: 609397009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		12.8	1.45	4.00	mg/L			EK1	02/13/23	1457	2382679	9
Bicarbonate alkalinity (CaCO3)		12.8	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-11	Project:	GPCC00102
Sample ID:	609397009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-12	Project: GPCC00102
Sample ID: 609397010	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-FEB-23 12:10	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		3.93			SU			AJ1	02/01/23	1210	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.231	0.0330	0.100	mg/L		1	JLD1	02/03/23	1933	2378276	2
Chloride		64.5	3.35	10.0	mg/L		50	JLD1	02/04/23	0854	2378276	3
Sulfate		527	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1018	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		10.1	0.520	1.50	mg/L	1.00	100	PRB	02/10/23	1204	2378372	5
Aluminum		10.3	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2036	2378372	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0256	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000634	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000753	0.000300	0.00100	mg/L	1.00	1					
Iron		1.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.121	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		12.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00560	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00334	0.00330	0.0200	mg/L	1.00	1					
Calcium		67.5	0.800	2.00	mg/L	1.00	10	PRB	02/10/23	1202	2378372	7
Sodium		79.5	0.800	2.50	mg/L	1.00	10					
Solids Analysis												

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-12 Project: GPCC00102
Sample ID: 609397010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		694	2.38	10.0	mg/L			CH6	02/06/23	1330	2379292	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	1.45	4.00	mg/L			EK1	02/13/23	1500	2382679	10
Bicarbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-12	Project:	GPCC00102
Sample ID:	609397010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-23D	Project: GPCC00102
Sample ID: 609397011	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-FEB-23 15:40	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.16			SU			AJ1	02/01/23	1540	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.71	0.0670	0.200	mg/L		1	JLD1	02/03/23	1526	2378276	2
Fluoride	J	0.0586	0.0330	0.100	mg/L		1					
Sulfate		40.3	0.665	2.00	mg/L		5	JLD1	02/04/23	0244	2378276	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1020	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0528	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2039	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0600	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.46	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.90	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.69	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0780	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.33	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0121	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0272	0.00520	0.0150	mg/L	1.00	1	PRB	02/10/23	1243	2378372	6
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-23D Project: GPCC00102
Sample ID: 609397011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		103	2.38	10.0	mg/L			CH6	02/06/23	1330	2379292	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		33.0	1.45	4.00	mg/L			EK1	02/13/23	1600	2382694	9
Bicarbonate alkalinity (CaCO3)		33.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-23D	Project:	GPCC00102
Sample ID:	609397011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-13	Project: GPCC00102
Sample ID: 609397012	Client ID: GPCC001
Matrix: WG	
Collect Date: 01-FEB-23 10:15	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.86			SU			AJ1	02/01/23	1015	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		34.5	0.665	2.00	mg/L		5	JLD1	02/04/23	0925	2378276	2
Chloride		6.17	0.0670	0.200	mg/L		1	JLD1	02/03/23	2003	2378276	3
Fluoride	J	0.0423	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1022	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.256	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2043	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0367	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.89	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.595	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.63	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0152	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.49	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.39	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0250	0.00330	0.0200	mg/L	1.00	1					
Boron		0.208	0.0260	0.0750	mg/L	1.00	5	PRB	02/10/23	1208	2378372	6
Solids Analysis												

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-13 Project: GPCC00102
Sample ID: 609397012 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		37.0	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		8.40	1.45	4.00	mg/L			EK1	02/13/23	1604	2382694	9
Bicarbonate alkalinity (CaCO3)		8.40	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	EPA 300.0		
4	SW846 7470A		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SM 2540C		
8	SM 4500-S (2-) D		
9	SM 2320B		

Notes:

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Company : Georgia Power Company
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Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-13	Project:	GPCC00102
Sample ID:	609397012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-4R Project: GPCC00102
Sample ID: 609397013 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 10:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.99			SU			AJ1	02/02/23	1000	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		82.4	3.35	10.0	mg/L		50	JLD1	02/04/23	0331	2378330	2
Sulfate		337	6.65	20.0	mg/L		50					
Fluoride	U	ND	0.165	0.500	mg/L		5	JLD1	02/04/23	0301	2378330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1027	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.545	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2046	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.00556	0.00200	0.00500	mg/L	1.00	1					
Barium		0.101	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00502	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00937	0.000300	0.00100	mg/L	1.00	1					
Iron		10.0	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0184	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.290	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.199	0.000200	0.00100	mg/L	1.00	1					
Potassium		26.8	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00466	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.0210	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Calcium		91.8	0.800	2.00	mg/L	1.00	10	PRB	02/10/23	1210	2378372	6
Sodium		244	0.800	2.50	mg/L	1.00	10					
Boron		5.35	0.520	1.50	mg/L	1.00	100	PRB	02/10/23	1212	2378372	7
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-4R Project: GPCC00102
Sample ID: 609397013 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1180	4.76	20.0	mg/L		CH6	02/09/23	1328	2381199		8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5 HH2	02/07/23	1513	2379522		9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		380	3.63	10.0	mg/L		EK1	02/13/23	1610	2382694		10
Bicarbonate alkalinity (CaCO3)		380	3.63	10.0	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	3.63	10.0	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-4R	Project:	GPCC00102
Sample ID:	609397013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-22 Project: GPCC00102
Sample ID: 609397014 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 09:49
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.63			SU			AJ1	02/02/23	0949	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		18.2	0.335	1.00	mg/L		5	JLD1	02/04/23	0401	2378330	2
Sulfate		71.6	0.665	2.00	mg/L		5					
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	02/03/23	1703	2378330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1028	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.741	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2050	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0456	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		21.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.340	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.49	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0115	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000334	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		9.61	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.302	0.0260	0.0750	mg/L	1.00	5	PRB	02/10/23	1214	2378372	6
Solids Analysis												

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-22 Project: GPCC00102
Sample ID: 609397014 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		113	2.38	10.0	mg/L		CH6	02/09/23	1328	2381199		7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1 HH2	02/07/23	1513	2379522		8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		7.80	1.45	4.00	mg/L		EK1	02/13/23	1617	2382694		9
Bicarbonate alkalinity (CaCO3)		7.80	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-22	Project:	GPCC00102
Sample ID:	609397014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-1	Project: GPCC00102
Sample ID: 609397015	Client ID: GPCC001
Matrix: WG	
Collect Date: 02-FEB-23 11:15	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.78			SU			AJ1	02/02/23	1115	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		35.3	0.266	0.800	mg/L	2		JLD1	02/04/23	0430	2378330	2
Chloride		6.47	0.0670	0.200	mg/L	1		JLD1	02/03/23	1733	2378330	3
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1030	2379626	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.239	0.0193	0.0500	mg/L	1.00	1	PRB	02/09/23	2054	2378372	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00433	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0466	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		35.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.115	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.42	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0563	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0433	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.95	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.00500	mg/L	1.00	1					
Sodium		13.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00497	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.599	0.0260	0.0750	mg/L	1.00	5	PRB	02/10/23	1216	2378372	6
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-1 Project: GPCC00102
Sample ID: 609397015 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		166	2.38	10.0	mg/L		CH6	02/09/23	1328	2381199		7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.165	0.500	mg/L		5 HH2	02/07/23	1513	2379522		8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		85.6	1.45	4.00	mg/L		EK1	02/13/23	1623	2382694		9
Bicarbonate alkalinity (CaCO3)		85.6	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379625
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-1	Project:	GPCC00102
Sample ID:	609397015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Georgia Power Company
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-2 Project: GPCC00102
Sample ID: 609397016 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 12:01
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		4.60			SU			AJ1	02/02/23	1201	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.42	0.0670	0.200	mg/L		1	JLD1	02/03/23	1803	2378330	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		11.9	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1053	2379632	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0220	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1338	2378375	4
Aluminum		0.0939	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0436	2378375	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0461	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.143	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.670	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.730	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00776	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.568	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		7.80	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-2 Project: GPCC00102
Sample ID: 609397016 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	3.00	1.45	4.00	mg/L			EK1	02/13/23	1624	2382694	8
Bicarbonate alkalinity (CaCO3)	J	3.00	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SM 4500-H B/SW846 9040C, SM 2550B		
2	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		
7	SM 4500-S (2-) D		
8	SM 2320B		

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-14 Project: GPCC00102
Sample ID: 609397017 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 13:25
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.98			SU			AJ1	02/02/23	1325	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		18.2	0.335	1.00	mg/L		5	JLD1	02/04/23	0500	2378330	2
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	02/03/23	1833	2378330	3
Sulfate		220	2.66	8.00	mg/L		20	JLD1	02/04/23	0530	2378330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1055	2379632	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0501	2378375	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00261	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0617	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.911	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		29.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.582	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0167	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.47	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00350	0.00150	0.00500	mg/L	1.00	1					
Sodium		20.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00594	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Calcium		137	0.800	2.00	mg/L	1.00	10	BAJ	02/10/23	1427	2378375	7
Boron		0.0451	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1357	2378375	8
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-14 Project: GPCC00102
Sample ID: 609397017 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		566	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		211	1.45	4.00	mg/L			EK1	02/13/23	1626	2382694	11
Bicarbonate alkalinity (CaCO3)		211	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-14	Project:	GPCC00102
Sample ID:	609397017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-15	Project: GPCC00102
Sample ID: 609397018	Client ID: GPCC001
Matrix: WG	
Collect Date: 02-FEB-23 14:35	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.65			SU			AJ1	02/02/23	1435	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		34.3	0.266	0.800	mg/L	2		JLD1	02/04/23	0600	2378330	2
Chloride		4.69	0.0670	0.200	mg/L	1		JLD1	02/03/23	1903	2378330	3
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1056	2379632	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.100	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0505	2378375	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.207	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0557	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.747	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.158	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0748	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.7	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		6.38	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00453	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.679	0.0520	0.150	mg/L	1.00	10	BAJ	02/10/23	1429	2378375	6
Calcium		131	0.800	2.00	mg/L	1.00	10					
Solids Analysis												

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Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-15 Project: GPCC00102
Sample ID: 609397018 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		440	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		348	1.45	4.00	mg/L			EK1	02/13/23	1630	2382694	9
Bicarbonate alkalinity (CaCO3)		348	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-15	Project:	GPCC00102
Sample ID:	609397018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21 Project: GPCC00102
Sample ID: 609397019 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 14:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		5.71			SU			AJ1	02/02/23	1400	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		447	6.65	20.0	mg/L		50	JLD1	02/04/23	0859	2378330	2
Fluoride	U	ND	0.0330	0.100	mg/L		1	JLD1	02/03/23	1933	2378330	3
Chloride		23.3	0.335	1.00	mg/L		5	JLD1	02/04/23	0630	2378330	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1058	2379632	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.121	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0508	2378375	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.0323	0.00200	0.00500	mg/L	1.00	1					
Barium		0.196	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.216	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		37.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0858	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0352	0.000200	0.00100	mg/L	1.00	1					
Potassium		18.3	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00542	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00537	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		5.15	0.260	0.750	mg/L	1.00	50	BAJ	02/10/23	1431	2378375	7
Calcium		123	4.00	10.0	mg/L	1.00	50					
Sodium		54.8	4.00	12.5	mg/L	1.00	50					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21 Project: GPCC00102
Sample ID: 609397019 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		775	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.0	1.45	4.00	mg/L			EK1	02/13/23	1638	2382694	10
Bicarbonate alkalinity (CaCO3)		77.0	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-21	Project:	GPCC00102
Sample ID:	609397019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-24D	Project: GPCC00102
Sample ID: 609397020	Client ID: GPCC001
Matrix: WG	
Collect Date: 02-FEB-23 15:00	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.23			SU			AJ1	02/02/23	1500	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.04	0.0670	0.200	mg/L		1	LXA2	02/03/23	1854	2378342	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1100	2379632	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	J	0.0265	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0512	2378375	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0268	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.50	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		2.92	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.576	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0449	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.33	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.52	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0218	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1353	2378375	5
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-24D Project: GPCC00102
Sample ID: 609397020 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		21.0	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	J	0.0623	0.0330	0.100	mg/L		1	HH2	02/07/23	1513	2379522	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		24.2	1.45	4.00	mg/L			EK1	02/13/23	1642	2382694	8
Bicarbonate alkalinity (CaCO3)		24.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-25D Project: GPCC00102
Sample ID: 609397021 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 13:05
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Field Data												
Client collected Field pH "As Received"												
Field pH		6.19			SU			AJ1	02/02/23	1305	2381570	1
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.24	0.0670	0.200	mg/L		1	LXA2	02/03/23	1550	2378342	2
Fluoride		0.152	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1102	2379632	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0181	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1355	2378375	4
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0516	2378375	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0253	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.09	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.46	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.990	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0271	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.13	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		6.50	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-25D Project: GPCC00102
Sample ID: 609397021 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		23.0	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1838	2379523	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		19.2	1.45	4.00	mg/L			EK1	02/13/23	1644	2382694	8
Bicarbonate alkalinity (CaCO3)		19.2	1.45	4.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.45	4.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 4500-H B/SW846 9040C, SM 2550B	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-01 Project: GPCC00102
Sample ID: 609397022 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 12:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.223	0.0330	0.100	mg/L		1	LXA2	02/04/23	0125	2378342	1
Chloride		62.0	2.68	8.00	mg/L		40	HXC1	02/11/23	0829	2378342	2
Sulfate		428	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1103	2379632	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		8.44	0.520	1.50	mg/L	1.00	100	BAJ	02/10/23	1433	2378375	4
Beryllium		0.000671	0.000200	0.000500	mg/L	1.00	1	BAJ	02/10/23	0519	2378375	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000761	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium	J	0.00545	0.00330	0.0200	mg/L	1.00	1					
Calcium		69.7	0.800	2.00	mg/L	1.00	10	BAJ	02/10/23	1442	2378375	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/09/23	2147	2378375	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0263	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc	J	0.00588	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		671	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-01	Project:	GPCC00102
Sample ID:	609397022	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-01 Project: GPCC00102
Sample ID: 609397023 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-23 14:10
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	02/04/23	0156	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.265	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1109	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1359	2378375	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0523	2378375	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-01	Project:	GPCC00102
Sample ID:	609397023	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-02 Project: GPCC00102
Sample ID: 609397024 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-23 15:50
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.150	0.0670	0.200	mg/L		1	LXA2	02/03/23	1519	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.174	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1110	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0534	2378375	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1400	2378375	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-02	Project:	GPCC00102
Sample ID:	609397024	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-04 Project: GPCC00102
Sample ID: 609397025 Client ID: GPCC001
Matrix: WQ
Collect Date: 01-FEB-23 11:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	02/04/23	0227	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1112	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0537	2378375	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1402	2378375	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/08/23	1114	2379677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-04 Project: GPCC00102
Sample ID: 609397025 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-05 Project: GPCC00102
Sample ID: 609397026 Client ID: GPCC001
Matrix: WQ
Collect Date: 02-FEB-23 10:35
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	02/03/23	1823	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1114	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0541	2378375	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1404	2378375	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-05 Project: GPCC00102
Sample ID: 609397026 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	SW846 7470A		
3	SW846 3005A/6020B		
4	SW846 3005A/6020B		
5	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-02	Project: GPCC00102
Sample ID: 609397027	Client ID: GPCC001
Matrix: WG	
Collect Date: 02-FEB-23 12:00	
Receive Date: 03-FEB-23	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		34.0	0.665	2.00	mg/L		5	LXA2	02/04/23	0908	2378342	1
Chloride		6.80	0.0670	0.200	mg/L		1	LXA2	02/03/23	1620	2378342	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1115	2379632	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.599	0.0520	0.150	mg/L	1.00	10	BAJ	02/10/23	1435	2378375	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0545	2378375	5
Arsenic	J	0.00493	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0475	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		34.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0443	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00231	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00467	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		172	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-02	Project:	GPCC00102
Sample ID:	609397027	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SM 2540C		

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-03 Project: GPCC00102
Sample ID: 609397028 Client ID: GPCC001
Matrix: WG
Collect Date: 02-FEB-23 12:00
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.09	0.0670	0.200	mg/L		1	LXA2	02/03/23	1651	2378342	1
Fluoride	J	0.0716	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1117	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0548	2378375	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0265	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.51	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0208	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1406	2378375	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		24.0	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-03	Project: GPCC00102
Sample ID: 609397028	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
<i>The following Analytical Methods were performed:</i>											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-03 Project: GPCC00102
Sample ID: 609397029 Client ID: GPCC001
Matrix: WQ
Collect Date: 02-FEB-23 13:25
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	LXA2	02/03/23	1722	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1119	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1408	2378375	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0552	2378375	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308
 Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-03	Project: GPCC00102
Sample ID: 609397029	Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-06 Project: GPCC00102
Sample ID: 609397030 Client ID: GPCC001
Matrix: WQ
Collect Date: 02-FEB-23 13:10
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.190	0.0670	0.200	mg/L		1	LXA2	02/03/23	1753	2378342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1121	2379632	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	02/10/23	0555	2378375	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	02/10/23	1410	2378375	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	02/09/23	1328	2381199	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-06 Project: GPCC00102
Sample ID: 609397030 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-7 Project: GPCC00102
Sample ID: 609397031 Client ID: GPCC001
Matrix: WG
Collect Date: 31-JAN-23 15:32
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Dissolved Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/08/23	1122	2379632	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Aluminum		2.61	0.0193	0.0500	mg/L	1.00	1	BAJ	02/10/23	0559	2378375	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00289	0.00200	0.00500	mg/L	1.00	1					
Barium		0.123	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.27	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00871	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000942	0.000300	0.00100	mg/L	1.00	1					
Iron		2.27	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		0.732	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0141	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.65	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00507	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.101	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		5.78	0.520	1.50	mg/L	1.00	100	BAJ	02/10/23	1436	2378375	3
Sodium		378	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/07/23	1128	2379628
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378374

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 16, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	609397031	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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QC Summary

Report Date: February 16, 2023

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Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 609397

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378276										
QC1205311415	609330002	DUP									
Chloride		95.9		96.1	mg/L	0.231		(0%-20%)	JLD1	02/04/23	01:43
Fluoride		0.222		0.218	mg/L	1.91	^	(+/-0.100)		02/03/23	20:34
Sulfate		162		163	mg/L	0.556		(0%-20%)		02/04/23	01:43
QC1205311414	LCS										
Chloride	5.00			4.91	mg/L			98.2 (90%-110%)		02/03/23	13:00
Fluoride	2.50			2.58	mg/L			103 (90%-110%)			
Sulfate	10.0			10.2	mg/L			102 (90%-110%)			
QC1205311413	MB										
Chloride			U	ND	mg/L					02/03/23	12:30
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205311416	609330002	PS									
Chloride	5.00	4.79		10.2	mg/L			107 (90%-110%)		02/04/23	02:13
Fluoride	2.50	0.222		2.78	mg/L			102 (90%-110%)		02/03/23	21:05
Sulfate	10.0	8.10		18.3	mg/L			102 (90%-110%)		02/04/23	02:13

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378330										
QC1205311449	609397019	DUP									
Chloride		23.3		23.4	mg/L	0.103		(0%-20%)	JLD1	02/04/23	07:00
Fluoride	U	ND	U	ND	mg/L	N/A				02/03/23	21:02
Sulfate		447		444	mg/L	0.736		(0%-20%)		02/04/23	09:29
QC1205311448	LCS										
Chloride	5.00			4.60	mg/L		91.9	(90%-110%)		02/03/23	22:32
Fluoride	2.50			2.58	mg/L		103	(90%-110%)			
Sulfate	10.0			9.55	mg/L		95.5	(90%-110%)			
QC1205311447	MB										
Chloride			U	ND	mg/L					02/03/23	22:02
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205311450	609397019	PS									
Chloride	5.00	4.67		9.47	mg/L		96	(90%-110%)		02/04/23	07:30
Fluoride	2.50	U	ND	2.62	mg/L		105	(90%-110%)		02/03/23	21:32
Sulfate	10.0	8.95		18.5	mg/L		95.1	(90%-110%)		02/04/23	09:59
Batch	2378342										
QC1205311453	609397020	DUP									
Chloride		6.04		6.07	mg/L	0.503		(0%-20%)	LXA2	02/04/23	03:29
Fluoride	U	ND	U	ND	mg/L	N/A					

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378342										
Sulfate	U	ND	J	0.196	mg/L	200			LXA2	02/04/23	03:29
QC1205311455 609435002 DUP											
Chloride		37.2		37.4	mg/L	0.676 ^		(+/-8.00)	HXC1	02/04/23	23:24
Fluoride		0.938		0.935	mg/L	0.353		(0%-20%)	LXA2	02/04/23	06:34
Sulfate		417		418	mg/L	0.107		(0%-20%)	HXC1	02/04/23	23:24
QC1205311452 LCS											
Chloride	5.00			4.82	mg/L		96.3	(90%-110%)	LXA2	02/04/23	05:32
Fluoride	2.50			2.50	mg/L		100	(90%-110%)			
Sulfate	10.0			9.68	mg/L		96.8	(90%-110%)			
QC1205311451 MB											
Chloride			U	ND	mg/L					02/04/23	05:01
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205311454 609397020 PS											
Chloride	5.00	6.04		11.7	mg/L		114*	(90%-110%)		02/04/23	06:03
Fluoride	2.50	U	ND	2.55	mg/L		102	(90%-110%)			
Sulfate	10.0	U	ND	9.72	mg/L		97.2	(90%-110%)			
QC1205311456 609435002 PS											
Chloride	5.00	0.929		5.49	mg/L		91.3	(90%-110%)	HXC1	02/04/23	23:55

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378342										
Fluoride	2.50	0.938		3.40	mg/L		98.6	(90%-110%)	LXA2	02/04/23	07:05
Sulfate	10.0	10.4		20.1	mg/L		97.1	(90%-110%)	HXC1	02/04/23	23:55
Metals Analysis - ICPMS											
Batch	2378372										
QC1205311458	LCS										
Aluminum	2.00			1.99	mg/L		99.3	(80%-120%)	PRB	02/09/23	19:30
Antimony	0.0500			0.0493	mg/L		98.6	(80%-120%)			
Arsenic	0.0500			0.0477	mg/L		95.4	(80%-120%)			
Barium	0.0500			0.0476	mg/L		95.2	(80%-120%)			
Beryllium	0.0500			0.0564	mg/L		113	(80%-120%)			
Boron	0.100			0.107	mg/L		107	(80%-120%)		02/10/23	11:24
Cadmium	0.0500			0.0492	mg/L		98.3	(80%-120%)		02/09/23	19:30
Calcium	2.00			2.06	mg/L		103	(80%-120%)			
Chromium	0.0500			0.0498	mg/L		99.5	(80%-120%)			
Cobalt	0.0500			0.0486	mg/L		97.2	(80%-120%)			
Iron	2.00			1.97	mg/L		98.5	(80%-120%)			
Lead	0.0500			0.0499	mg/L		99.9	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Lithium	0.0500			0.0549	mg/L		110	(80%-120%)	PRB	02/09/23	19:30
Magnesium	2.00			2.14	mg/L		107	(80%-120%)			
Manganese	0.0500			0.0489	mg/L		97.9	(80%-120%)			
Molybdenum	0.0500			0.0478	mg/L		95.6	(80%-120%)			
Potassium	2.00			2.03	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0468	mg/L		93.5	(80%-120%)			
Sodium	2.00			2.08	mg/L		104	(80%-120%)		02/10/23	11:24
Thallium	0.0500			0.0496	mg/L		99.3	(80%-120%)		02/09/23	19:30
Vanadium	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Zinc	0.0500			0.0491	mg/L		98.2	(80%-120%)			
QC1205311457	MB										
Aluminum			U	ND	mg/L					02/09/23	19:27
Antimony			U	ND	mg/L						
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Boron			U	ND	mg/L				PRB	02/10/23	11:22
Cadmium			U	ND	mg/L					02/09/23	19:27
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L					02/10/23	11:22
Thallium			U	ND	mg/L					02/09/23	19:27

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Vanadium			U	ND	mg/L				PRB	02/09/23	19:27
Zinc			U	ND	mg/L						
QC1205311459	609397001	MS									
Aluminum	2.00	6.59		10.3	mg/L		183 *	(75%-125%)		02/09/23	19:38
Antimony	0.0500	U	ND	0.0513	mg/L		102	(75%-125%)			
Arsenic	0.0500	J	0.00250	0.0519	mg/L		98.9	(75%-125%)			
Barium	0.0500		0.126	0.174	mg/L		97.3	(75%-125%)			
Beryllium	0.0500	U	ND	0.0562	mg/L		112	(75%-125%)			
Boron	0.100		5.72	5.88	mg/L		N/A	(75%-125%)		02/10/23	11:28
Cadmium	0.0500	U	ND	0.0490	mg/L		97.9	(75%-125%)		02/09/23	19:38
Calcium	2.00		3.33	5.43	mg/L		105	(75%-125%)			
Chromium	0.0500		0.0112	0.0602	mg/L		98	(75%-125%)			
Cobalt	0.0500		0.00114	0.0480	mg/L		93.7	(75%-125%)			
Iron	2.00		2.67	4.72	mg/L		103	(75%-125%)			
Lead	0.0500	J	0.00126	0.0485	mg/L		94.4	(75%-125%)			
Lithium	0.0500	U	ND	0.0560	mg/L		109	(75%-125%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Magnesium	2.00	0.779		2.91	mg/L		106	(75%-125%)	PRB	02/09/23	19:38
Manganese	0.0500	0.0152		0.0630	mg/L		95.7	(75%-125%)			
Molybdenum	0.0500	J	0.000364	0.0525	mg/L		104	(75%-125%)			
Potassium	2.00	5.76		7.86	mg/L		105	(75%-125%)			
Selenium	0.0500	J	0.00443	0.0503	mg/L		91.7	(75%-125%)			
Sodium	2.00	387		391	mg/L		N/A	(75%-125%)		02/10/23	11:28
Thallium	0.0500	U	ND	0.0471	mg/L		94.2	(75%-125%)		02/09/23	19:38
Vanadium	0.0500	0.106		0.158	mg/L		103	(75%-125%)			
Zinc	0.0500	J	0.00457	0.0516	mg/L		94	(75%-125%)			
QC1205311460 609397001 MSD											
Aluminum	2.00	6.59		10.1	mg/L	1.31	177*	(0%-20%)		02/09/23	19:41
Antimony	0.0500	U	ND	0.0511	mg/L	0.487	102	(0%-20%)			
Arsenic	0.0500	J	0.00250	0.0517	mg/L	0.544	98.3	(0%-20%)			
Barium	0.0500	0.126		0.173	mg/L	0.741	94.7	(0%-20%)			
Beryllium	0.0500	U	ND	0.0548	mg/L	2.63	109	(0%-20%)			
Boron	0.100	5.72		5.96	mg/L	1.33	N/A	(0%-20%)		02/10/23	11:30

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Cadmium	0.0500	U	ND	0.0480	mg/L	2.04	95.9	(0%-20%)	PRB	02/09/23	19:41
Calcium	2.00		3.33	5.44	mg/L	0.15	106	(0%-20%)			
Chromium	0.0500		0.0112	0.0592	mg/L	1.6	96	(0%-20%)			
Cobalt	0.0500		0.00114	0.0469	mg/L	2.27	91.5	(0%-20%)			
Iron	2.00		2.67	4.58	mg/L	2.95	95.7	(0%-20%)			
Lead	0.0500	J	0.00126	0.0479	mg/L	1.26	93.2	(0%-20%)			
Lithium	0.0500	U	ND	0.0548	mg/L	2.18	107	(0%-20%)			
Magnesium	2.00		0.779	2.82	mg/L	2.87	102	(0%-20%)			
Manganese	0.0500		0.0152	0.0610	mg/L	3.23	91.7	(0%-20%)			
Molybdenum	0.0500	J	0.000364	0.0528	mg/L	0.52	105	(0%-20%)			
Potassium	2.00		5.76	7.77	mg/L	1.18	100	(0%-20%)			
Selenium	0.0500	J	0.00443	0.0498	mg/L	0.953	90.8	(0%-20%)			
Sodium	2.00		387	389	mg/L	0.476	N/A	(0%-20%)		02/10/23	11:30
Thallium	0.0500	U	ND	0.0465	mg/L	1.43	92.9	(0%-20%)		02/09/23	19:41
Vanadium	0.0500		0.106	0.155	mg/L	1.86	96.7	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Zinc	0.0500	J	0.00457	0.0518	mg/L	0.397	94.4	(0%-20%)	PRB	02/09/23	19:41
QC1205316675 609397001 PS											
Aluminum	2000		6590	8440	ug/L		92.5	(75%-125%)		02/09/23	19:45
QC1205311461 609397001 SDILT											
Aluminum			6590	1230	ug/L	6.53		(0%-20%)		02/09/23	19:49
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Arsenic		J	2.50	U	ND	ug/L	N/A	(0%-20%)			
Barium			126		24.2	ug/L	3.76	(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Boron			114		26.4	ug/L	15.5	(0%-20%)		02/10/23	11:32
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-20%)		02/09/23	19:49
Calcium			3330		619	ug/L	7.09	(0%-20%)			
Chromium			11.2	U	ND	ug/L	N/A	(0%-20%)			
Cobalt			1.14	U	ND	ug/L	N/A	(0%-20%)			
Iron			2670		517	ug/L	3.26	(0%-20%)			
Lead		J	1.26	U	ND	ug/L	N/A	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378372										
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/09/23	19:49
Magnesium		779		148	ug/L	5.09		(0%-20%)			
Manganese		15.2	J	3.06	ug/L	1.07		(0%-20%)			
Molybdenum	J	0.364	U	ND	ug/L	N/A		(0%-20%)			
Potassium		5760		1080	ug/L	6.04		(0%-20%)			
Selenium	J	4.43	U	ND	ug/L	N/A		(0%-20%)			
Sodium		7730		1510	ug/L	2.53		(0%-20%)		02/10/23	11:32
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23	19:49
Vanadium		106	J	20.0	ug/L	6.02		(0%-20%)			
Zinc	J	4.57	U	ND	ug/L	N/A		(0%-20%)			
<hr/>											
Batch	2378375										
QC1205311463	LCS										
Aluminum	2.00			2.14	mg/L		107	(80%-120%)	BAJ	02/10/23	04:32
Antimony	0.0500			0.0495	mg/L		99.1	(80%-120%)			
Arsenic	0.0500			0.0509	mg/L		102	(80%-120%)			
Barium	0.0500			0.0498	mg/L		99.5	(80%-120%)			
Beryllium	0.0500			0.0596	mg/L		119	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Boron	0.100			0.113	mg/L		113	(80%-120%)	BAJ	02/10/23	13:36
Cadmium	0.0500			0.0513	mg/L		103	(80%-120%)		02/10/23	04:32
Calcium	2.00			2.17	mg/L		108	(80%-120%)			
Chromium	0.0500			0.0517	mg/L		103	(80%-120%)			
Cobalt	0.0500			0.0507	mg/L		101	(80%-120%)			
Iron	2.00			2.02	mg/L		101	(80%-120%)			
Lead	0.0500			0.0501	mg/L		100	(80%-120%)			
Lithium	0.0500			0.0572	mg/L		114	(80%-120%)			
Magnesium	2.00			2.35	mg/L		117	(80%-120%)			
Manganese	0.0500			0.0505	mg/L		101	(80%-120%)			
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)			
Potassium	2.00			2.12	mg/L		106	(80%-120%)			
Selenium	0.0500			0.0516	mg/L		103	(80%-120%)			
Sodium	2.00			2.25	mg/L		112	(80%-120%)			
Thallium	0.0500			0.0491	mg/L		98.1	(80%-120%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Vanadium	0.0500			0.0512	mg/L		102	(80%-120%)	BAJ	02/10/23	04:32
Zinc	0.0500			0.0520	mg/L		104	(80%-120%)			
QC1205311462	MB										
Aluminum			U	ND	mg/L					02/10/23	04:28
Antimony			U	ND	mg/L						
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L					02/10/23	13:34
Cadmium			U	ND	mg/L					02/10/23	04:28
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Magnesium			U	ND	mg/L				BAJ	02/10/23	04:28
Manganese			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						
Thallium			U	ND	mg/L						
Vanadium			U	ND	mg/L						
Zinc			U	ND	mg/L						
QC1205311464 609397016 MS											
Aluminum	2.00		0.0939	2.14	mg/L		102	(75%-125%)		02/10/23	04:39
Antimony	0.0500	U	ND	0.0491	mg/L		98.1	(75%-125%)			
Arsenic	0.0500	U	ND	0.0501	mg/L		97.7	(75%-125%)			
Barium	0.0500		0.0461	0.0938	mg/L		95.5	(75%-125%)			
Beryllium	0.0500	U	ND	0.0580	mg/L		116	(75%-125%)			
Boron	0.100		0.0220	0.133	mg/L		111	(75%-125%)		02/10/23	13:39

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Cadmium	0.0500	U	ND	0.0509	mg/L		102	(75%-125%)	BAJ	02/10/23	04:39
Calcium	2.00	J	0.143	2.22	mg/L		104	(75%-125%)			
Chromium	0.0500	U	ND	0.0504	mg/L		99.8	(75%-125%)			
Cobalt	0.0500	U	ND	0.0490	mg/L		97.5	(75%-125%)			
Iron	2.00		0.670	2.62	mg/L		97.7	(75%-125%)			
Lead	0.0500	U	ND	0.0488	mg/L		97.6	(75%-125%)			
Lithium	0.0500	U	ND	0.0556	mg/L		111	(75%-125%)			
Magnesium	2.00		0.730	2.99	mg/L		113	(75%-125%)			
Manganese	0.0500		0.00776	0.0562	mg/L		97	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0498	mg/L		99.6	(75%-125%)			
Potassium	2.00		0.568	2.59	mg/L		101	(75%-125%)			
Selenium	0.0500	U	ND	0.0497	mg/L		99.4	(75%-125%)			
Sodium	2.00		7.80	9.85	mg/L		102	(75%-125%)			
Thallium	0.0500	U	ND	0.0481	mg/L		96.1	(75%-125%)			
Vanadium	0.0500	U	ND	0.0505	mg/L		97.9	(75%-125%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Zinc	0.0500	U	ND	0.0503	mg/L		99.2	(75%-125%)	BAJ	02/10/23	04:39
QC1205311465 609397016 MSD											
Aluminum	2.00		0.0939	2.10	mg/L	1.9	100	(0%-20%)		02/10/23	04:43
Antimony	0.0500	U	ND	0.0492	mg/L	0.279	98.4	(0%-20%)			
Arsenic	0.0500	U	ND	0.0498	mg/L	0.595	97.1	(0%-20%)			
Barium	0.0500		0.0461	0.0944	mg/L	0.665	96.7	(0%-20%)			
Beryllium	0.0500	U	ND	0.0567	mg/L	2.25	113	(0%-20%)			
Boron	0.100		0.0220	0.133	mg/L	0.0293	111	(0%-20%)		02/10/23	13:41
Cadmium	0.0500	U	ND	0.0505	mg/L	0.955	101	(0%-20%)		02/10/23	04:43
Calcium	2.00	J	0.143	2.22	mg/L	0.157	104	(0%-20%)			
Chromium	0.0500	U	ND	0.0500	mg/L	0.791	99	(0%-20%)			
Cobalt	0.0500	U	ND	0.0493	mg/L	0.531	98.1	(0%-20%)			
Iron	2.00		0.670	2.57	mg/L	1.96	95.2	(0%-20%)			
Lead	0.0500	U	ND	0.0490	mg/L	0.486	98.1	(0%-20%)			
Lithium	0.0500	U	ND	0.0550	mg/L	1.18	109	(0%-20%)			
Magnesium	2.00		0.730	2.93	mg/L	2.16	110	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Manganese	0.0500	0.00776		0.0563	mg/L	0.08	97	(0%-20%)	BAJ	02/10/23	04:43
Molybdenum	0.0500	U	ND	0.0502	mg/L	0.746	100	(0%-20%)			
Potassium	2.00	0.568		2.58	mg/L	0.218	101	(0%-20%)			
Selenium	0.0500	U	ND	0.0485	mg/L	2.46	97	(0%-20%)			
Sodium	2.00	7.80		9.86	mg/L	0.158	103	(0%-20%)			
Thallium	0.0500	U	ND	0.0482	mg/L	0.199	96.3	(0%-20%)			
Vanadium	0.0500	U	ND	0.0502	mg/L	0.56	97.3	(0%-20%)			
Zinc	0.0500	U	ND	0.0505	mg/L	0.397	99.6	(0%-20%)			
QC1205311466 609397016 SDILT											
Aluminum		93.9	J	20.2	ug/L	7.45		(0%-20%)		02/10/23	04:50
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		46.1		8.96	ug/L	2.71		(0%-20%)			
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron		22.0	J	6.87	ug/L	56.2		(0%-20%)		02/10/23	13:45
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/23	04:50

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378375										
Calcium	J	143	U	ND	ug/L	N/A		(0%-20%)	BAJ	02/10/23	04:50
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron		670		132	ug/L	1.73		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Magnesium		730		135	ug/L	7.47		(0%-20%)			
Manganese		7.76	J	1.53	ug/L	1.62		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium		568	J	107	ug/L	5.7		(0%-20%)			
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium		7800		1450	ug/L	6.96		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Zinc	U	ND	U	ND	ug/L	N/A		(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2379626											
QC1205313350	609237009	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		JP2	02/08/23	09:47
QC1205313349	LCS										
Mercury	0.00200			0.00211	mg/L		106	(80%-120%)		02/08/23	09:40
QC1205313348	MB										
Mercury			U	ND	mg/L					02/08/23	09:38
QC1205313351	609237009	MS									
Mercury	0.00200	U	ND	0.00214	mg/L		107	(75%-125%)		02/08/23	09:49
QC1205313352	609237009	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		02/08/23	09:50
Batch 2379632											
QC1205313356	609295019	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		JP2	02/08/23	10:42
QC1205313355	LCS										
Mercury	0.00200			0.00206	mg/L		103	(80%-120%)		02/08/23	10:35
QC1205313354	MB										
Mercury			U	ND	mg/L					02/08/23	10:34
QC1205313357	609295019	MS									
Mercury	0.00200	U	ND	0.00205	mg/L		102	(75%-125%)		02/08/23	10:48
QC1205313358	609295019	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		02/08/23	10:49

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2379292											
QC1205312856	609230006	DUP									
Total Dissolved Solids		33.0		37.0	mg/L	11.4 ^		(+/-10.0)	CH6	02/06/23	13:30
QC1205312855	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		02/06/23	13:30
QC1205312854	MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23	13:30
Batch 2379677											
QC1205313479	609435002	DUP									
Total Dissolved Solids		857		820	mg/L	4.37		(0%-5%)	CH6	02/08/23	11:14
QC1205314103	609211001	DUP									
Total Dissolved Solids		597		602	mg/L	0.834		(0%-5%)		02/08/23	11:14
QC1205313478	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/08/23	11:14
QC1205313477	MB										
Total Dissolved Solids			U	ND	mg/L					02/08/23	11:14
Batch 2381199											
QC1205315842	609419005	DUP									
Total Dissolved Solids	H	4100	H	4790	mg/L	15.5*		(0%-5%)	CH6	02/09/23	13:28
QC1205315840	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		02/09/23	13:28
QC1205315839	MB										
Total Dissolved Solids			U	ND	mg/L					02/09/23	13:28

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2379522										
QC1205313142		LCS									
Total Sulfide	0.400			0.400	mg/L		100	(85%-115%)	HH2	02/07/23	15:13
QC1205313141		MB									
Total Sulfide			U	ND	mg/L					02/07/23	15:13
QC1205313143		609397004	PS								
Total Sulfide	0.400	U	ND	0.219	mg/L		53.4*	(75%-125%)		02/07/23	15:13
QC1205313145		609397014	PS								
Total Sulfide	0.400	U	ND	0.407	mg/L		99.3	(75%-125%)		02/07/23	15:13
QC1205313144		609397004	PSD								
Total Sulfide	0.400	U	ND	0.216	mg/L	1.37	52.7*	(0%-15%)		02/07/23	15:13
QC1205313146		609397014	PSD								
Total Sulfide	0.400	U	ND	0.404	mg/L	0.736	98.6	(0%-15%)		02/07/23	15:13
<hr/>											
Batch	2379523										
QC1205313148		LCS									
Total Sulfide	0.400			0.399	mg/L		99.7	(85%-115%)	HH2	02/06/23	18:38
QC1205313147		MB									
Total Sulfide			U	ND	mg/L					02/06/23	18:37
QC1205313149		609397021	PS								
Total Sulfide	0.400	U	ND	0.401	mg/L		97	(75%-125%)		02/06/23	18:40
QC1205313150		609397021	PSD								
Total Sulfide	0.400	U	ND	0.399	mg/L	0.447	96.6	(0%-15%)		02/06/23	18:40

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382679										
QC1205318663 609366001 DUP											
Alkalinity, Total as CaCO3		722		722	mg/L	0.0693		(0%-20%)	EK1	02/13/23	14:17
Bicarbonate alkalinity (CaCO3)		722		722	mg/L	0.0693		(0%-20%)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205318662 LCS											
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/13/23	13:59
QC1205318664 609366001 MS											
Alkalinity, Total as CaCO3	250	722		984	mg/L		105	(80%-120%)		02/13/23	14:20
Batch	2382694										
QC1205318670 609397012 DUP											
Alkalinity, Total as CaCO3		8.40		8.20	mg/L	2.41 ^		(+/-4.00)	EK1	02/13/23	16:06
Bicarbonate alkalinity (CaCO3)		8.40		8.20	mg/L	2.41 ^		(+/-4.00)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205320289 609397021 DUP											
Alkalinity, Total as CaCO3		19.2		19.4	mg/L	1.04 ^		(+/-4.00)		02/13/23	16:46
Bicarbonate alkalinity (CaCO3)		19.2		19.4	mg/L	1.04 ^		(+/-4.00)			
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A					
QC1205318667 LCS											
Alkalinity, Total as CaCO3	100			106	mg/L		106	(90%-110%)		02/13/23	15:57
QC1205318671 609397012 MS											
Alkalinity, Total as CaCO3	100	8.40		109	mg/L		101	(80%-120%)		02/13/23	16:08

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch	2382694										
QC1205320290	609397021 MS										
Alkalinity, Total as CaCO3	100	19.2		118	mg/L		99.2	(80%-120%)	EK1	02/13/23	16:49

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 609397**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2378372

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2378371

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7
609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397006	KRA-GWC-20
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397010	KRA-GWC-12
609397011	KRA-MW-23D
609397012	KRA-GWC-13
609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
1205311457	Method Blank (MB)ICP-MS
1205311458	Laboratory Control Sample (LCS)
1205311461	609397001(KRA-GWA-7L) Serial Dilution (SD)
1205311459	609397001(KRA-GWA-7S) Matrix Spike (MS)
1205311460	609397001(KRA-GWA-7SD) Matrix Spike Duplicate (MSD)
1205316675	609397001(KRA-GWA-7PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205311459 (KRA-GWA-7MS)	Aluminum	183* (75%-125%)
1205311460 (KRA-GWA-7MSD)	Aluminum	177* (75%-125%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 609397001 (KRA-GWA-7), 609397003 (KRA-GWB-6R), 609397004 (KRA-GWB-5R), 609397006 (KRA-GWC-20), 609397007 (KRA-GWC-17), 609397008 (KRA-GWC-16), 609397009 (KRA-GWC-11), 609397010 (KRA-GWC-12), 609397012 (KRA-GWC-13), 609397013 (KRA-GWB-4R), 609397014 (KRA-GWC-22) and 609397015 (KRA-GWC-1) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609397									
	001	003	004	006	007	008	009	010	012	013
Boron	50X	50X	50X	100X	20X	100X	100X	100X	5X	100X
Calcium	1X	5X	1X	100X	20X	100X	100X	10X	1X	10X
Magnesium	1X	1X	1X	100X	20X	100X	100X	1X	1X	1X
Manganese	1X	5X	1X	1X	1X	1X	1X	1X	1X	1X
Sodium	50X	50X	50X	1X	20X	100X	100X	10X	1X	10X

Analyte	609397	
	014	015
Boron	5X	5X

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2378375

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2378374

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21
609397020	KRA-MW-24D
609397021	KRA-MW-25D
609397022	KRA-GRL-FD-01
609397023	KRA-GRL-FB-01
609397024	KRA-GRL-FB-02
609397025	KRA-GRL-EB-04
609397026	KRA-GRL-EB-05
609397027	KRA-GRL-FD-02
609397028	KRA-GRL-FD-03
609397029	KRA-GRL-FB-03
609397030	KRA-GRL-EB-06
609397031	KRA-GWA-7
1205311462	Method Blank (MB) ICP-MS
1205311463	Laboratory Control Sample (LCS)
1205311466	609397016(KRA-GWC-2L) Serial Dilution (SD)
1205311464	609397016(KRA-GWC-2S) Matrix Spike (MS)
1205311465	609397016(KRA-GWC-2SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 609397017 (KRA-GWC-14), 609397018 (KRA-GWC-15), 609397019 (KRA-GWC-21), 609397022 (KRA-GRL-FD-01), 609397027 (KRA-GRL-FD-02) and 609397031 (KRA-GWA-7) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	609397					
	017	018	019	022	027	031
Boron	1X	10X	50X	100X	10X	100X
Calcium	10X	10X	50X	10X	1X	1X

Sodium	1X	1X	50X			100X
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Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2379626

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2379625

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7
609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397006	KRA-GWC-20
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397010	KRA-GWC-12
609397011	KRA-MW-23D
609397012	KRA-GWC-13
609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
1205313348	Method Blank (MB)CVAA
1205313349	Laboratory Control Sample (LCS)
1205313352	609237009(NonSDGL) Serial Dilution (SD)
1205313350	609237009(NonSDGD) Sample Duplicate (DUP)
1205313351	609237009(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2379632

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2379628

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21
609397020	KRA-MW-24D
609397021	KRA-MW-25D
609397022	KRA-GRL-FD-01
609397023	KRA-GRL-FB-01
609397024	KRA-GRL-FB-02
609397025	KRA-GRL-EB-04
609397026	KRA-GRL-EB-05
609397027	KRA-GRL-FD-02
609397028	KRA-GRL-FD-03
609397029	KRA-GRL-FB-03
609397030	KRA-GRL-EB-06
609397031	KRA-GWA-7
1205313354	Method Blank (MB)CVAA
1205313355	Laboratory Control Sample (LCS)
1205313358	609295019(NonSDGL) Serial Dilution (SD)
1205313356	609295019(NonSDGD) Sample Duplicate (DUP)
1205313357	609295019(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2378276

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397006	KRA-GWC-20
609397010	KRA-GWC-12
609397011	KRA-MW-23D
609397012	KRA-GWC-13
1205311413	Method Blank (MB)
1205311414	Laboratory Control Sample (LCS)
1205311415	609330002(NonSDG) Sample Duplicate (DUP)
1205311416	609330002(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205311415 (Non SDG 609330002DUP), 1205311416 (Non SDG 609330002PS), 609397006 (KRA-GWC-20), 609397010 (KRA-GWC-12), 609397011 (KRA-MW-23D) and 609397012 (KRA-GWC-13) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205311415 (Non SDG 609330002DUP), 1205311416 (Non SDG 609330002PS) and 609397006 (KRA-GWC-20) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609397			
	006	010	011	012
Chloride	2X	50X	1X	1X
Nitrate-N	2X	1X	1X	1X
Sulfate	50X	50X	5X	5X

Miscellaneous Information

Manual Integrations

Sample 609397010 (KRA-GWC-12) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2378330

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21

1205311447	Method Blank (MB)
1205311448	Laboratory Control Sample (LCS)
1205311449	609397019(KRA-GWC-21) Sample Duplicate (DUP)
1205311450	609397019(KRA-GWC-21) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following samples 1205311449 (KRA-GWC-21DUP), 1205311450 (KRA-GWC-21PS), 609397007 (KRA-GWC-17), 609397008 (KRA-GWC-16), 609397009 (KRA-GWC-11), 609397013 (KRA-GWB-4R), 609397014 (KRA-GWC-22), 609397015 (KRA-GWC-1), 609397017 (KRA-GWC-14), 609397018 (KRA-GWC-15) and 609397019 (KRA-GWC-21) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205311449 (KRA-GWC-21DUP), 1205311450 (KRA-GWC-21PS), 609397007 (KRA-GWC-17), 609397008 (KRA-GWC-16), 609397009 (KRA-GWC-11), 609397013 (KRA-GWB-4R), 609397017 (KRA-GWC-14), 609397018 (KRA-GWC-15) and 609397019 (KRA-GWC-21) in this sample group were diluted due to matrix interference. Samples 609397009 (KRA-GWC-11) and 609397013 (KRA-GWB-4R) were diluted to minimize matrix effects on instrument performance. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609397								
	007	008	009	013	014	015	017	018	019
Chloride	100X	10X	100X	50X	5X	1X	5X	1X	5X
Fluoride	1X	1X	5X	5X	1X	1X	1X	1X	1X
Nitrate-N	5X	10X	5X	5X	1X	1X	5X	2X	5X
Sulfate	100X	100X	100X	50X	5X	2X	20X	2X	50X

Miscellaneous Information

Manual Integrations

Samples 609397013 (KRA-GWB-4R), 609397015 (KRA-GWC-1), 609397017 (KRA-GWC-14) and 609397018 (KRA-GWC-15) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2378342

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7

609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397020	KRA-MW-24D
609397021	KRA-MW-25D
609397022	KRA-GRL-FD-01
609397023	KRA-GRL-FB-01
609397024	KRA-GRL-FB-02
609397025	KRA-GRL-EB-04
609397026	KRA-GRL-EB-05
609397027	KRA-GRL-FD-02
609397028	KRA-GRL-FD-03
609397029	KRA-GRL-FB-03
609397030	KRA-GRL-EB-06
1205311451	Method Blank (MB)
1205311452	Laboratory Control Sample (LCS)
1205311453	609397020(KRA-MW-24D) Sample Duplicate (DUP)
1205311454	609397020(KRA-MW-24D) Post Spike (PS)
1205311455	609435002(NonSDG) Sample Duplicate (DUP)
1205311456	609435002(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205311454 (KRA-MW-24DPS)	114* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205311455 (Non SDG 609435002DUP), 1205311456 (Non SDG 609435002PS), 609397001 (KRA-GWA-7), 609397002 (KRA-GWA-8), 609397003 (KRA-GWB-6R), 609397004 (KRA-GWB-5R), 609397005 (KRA-GWC-9), 609397022 (KRA-GRL-FD-01) and 609397027 (KRA-GRL-FD-02) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609397						
	001	002	003	004	005	022	027
Chloride	10X	5X	100X	20X	5X	40X	1X

Sulfate	1X	5X	100X	20X	5X	40X	5X
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Miscellaneous Information

Manual Integrations

Sample 1205311453 (KRA-MW-24DDUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2379292

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7
609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397006	KRA-GWC-20
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397010	KRA-GWC-12
609397011	KRA-MW-23D
1205312854	Method Blank (MB)
1205312855	Laboratory Control Sample (LCS)
1205312856	609230006(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 609397001 (KRA-GWA-7), 609397003 (KRA-GWB-6R), 609397004 (KRA-GWB-5R), 609397006 (KRA-GWC-20), 609397007 (KRA-GWC-17), 609397008 (KRA-GWC-16) and 609397009 (KRA-GWC-11).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2379677

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397012	KRA-GWC-13
609397022	KRA-GRL-FD-01
609397023	KRA-GRL-FB-01
609397024	KRA-GRL-FB-02
609397025	KRA-GRL-EB-04
1205313477	Method Blank (MB)
1205313478	Laboratory Control Sample (LCS)
1205313479	609435002(NonSDG) Sample Duplicate (DUP)
1205314103	609211001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205314103 (Non SDG 609211001DUP).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2381199

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21
609397020	KRA-MW-24D
609397021	KRA-MW-25D
609397026	KRA-GRL-EB-05
609397027	KRA-GRL-FD-02
609397028	KRA-GRL-FD-03
609397029	KRA-GRL-FB-03
609397030	KRA-GRL-EB-06
1205315839	Method Blank (MB)
1205315840	Laboratory Control Sample (LCS)
1205315842	609419005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205315842 (Non SDG 609419005DUP)	15.5* (0%-5%)

Technical Information

Holding Times

Sample (See Below) was not available for analysis until after the holding time had expired. The data is qualified.

Sample	Analyte	Value
1205315842 (Non SDG 609419005DUP)		Received 08-FEB-23, within holding, analyzed 09-FEB-23, out of holding 08-FEB-23

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205315842 (Non SDG 609419005DUP) and 609397013 (KRA-GWB-4R).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2379522

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7
609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397006	KRA-GWC-20
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397010	KRA-GWC-12
609397011	KRA-MW-23D
609397012	KRA-GWC-13

609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21
609397020	KRA-MW-24D
1205313141	Method Blank (MB)
1205313142	Laboratory Control Sample (LCS)
1205313143	609397004(KRA-GWB-5R) Post Spike (PS)
1205313144	609397004(KRA-GWB-5R) Post Spike Duplicate (PSD)
1205313145	609397014(KRA-GWC-22) Post Spike (PS)
1205313146	609397014(KRA-GWC-22) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Total Sulfide	1205313143 (KRA-GWB-5RPS)	53.4* (75%-125%)
	1205313144 (KRA-GWB-5RPSD)	52.7* (75%-125%)

Technical Information

Sample Dilutions

The following samples 1205313143 (KRA-GWB-5RPS), 1205313144 (KRA-GWB-5RPSD), 609397001 (KRA-GWA-7), 609397003 (KRA-GWB-6R), 609397004 (KRA-GWB-5R), 609397006 (KRA-GWC-20), 609397013 (KRA-GWB-4R) and 609397015 (KRA-GWC-1) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609397					
	001	003	004	006	013	015
Total Sulfide	5X	5X	5X	5X	5X	5X

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2379523

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397021	KRA-MW-25D
1205313147	Method Blank (MB)
1205313148	Laboratory Control Sample (LCS)
1205313149	609397021(KRA-MW-25D) Post Spike (PS)
1205313150	609397021(KRA-MW-25D) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382679

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397001	KRA-GWA-7
609397002	KRA-GWA-8
609397003	KRA-GWB-6R
609397004	KRA-GWB-5R
609397005	KRA-GWC-9
609397006	KRA-GWC-20
609397007	KRA-GWC-17
609397008	KRA-GWC-16
609397009	KRA-GWC-11
609397010	KRA-GWC-12
1205318662	Laboratory Control Sample (LCS)
1205318663	609366001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205318664	609366001(KRA-CLIFTON-SEEP) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

smaller aliquots used due to sample concentration 1205318663 (KRA-CLIFTON-SEEPDUP), 1205318664 (KRA-CLIFTON-SEEPMS), 609397001 (KRA-GWA-7), 609397003 (KRA-GWB-6R), 609397004

(KRA-GWB-5R) and 609397006 (KRA-GWC-20).

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382694

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609397011	KRA-MW-23D
609397012	KRA-GWC-13
609397013	KRA-GWB-4R
609397014	KRA-GWC-22
609397015	KRA-GWC-1
609397016	KRA-GWC-2
609397017	KRA-GWC-14
609397018	KRA-GWC-15
609397019	KRA-GWC-21
609397020	KRA-MW-24D
609397021	KRA-MW-25D
1205318667	Laboratory Control Sample (LCS)
1205318670	609397012(KRA-GWC-13) Sample Duplicate (DUP)
1205318671	609397012(KRA-GWC-13) Matrix Spike (MS)
1205320289	609397021(KRA-MW-25D) Sample Duplicate (DUP)
1205320290	609397021(KRA-MW-25D) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

smaller aliquot used due to sample concentration 609397013 (KRA-GWB-4R).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax #
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Smith
 ACC
 Send Results To: SCS & ACC Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Sample Analysis Requested (5) (Fill in the number of containers for each test)				Should this sample be considered: (7) Known or possible hazards (8) Yes, please supply isotopic info.	Total number of containers	Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
						NI	NI	NI	NI			
KRA-GWA-7	01/31/23	1532	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 6.02
KRA-GWA-7	01/31/23	1532	G	Y	WG	✓	✓	✓	✓	1	✓	field pH = 6.02 NA
KRA-GWA-8	01/31/23	1655	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 4.60
KRA-GWB-6R	02/01/23	0920	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 5.54
KRA-GWB-SR	02/01/23	1030	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 5.81
KRA-GWC-9	02/01/23	1135	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 4.57
KRA-GWC-20	02/01/23	1400	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 6.01
KRA-GWC-17	02/01/23	1550	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 4.74
KRA-GWC-16	02/01/23	1615	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 6.23
KRA-GWC-11	02/01/23	1645	G	N	WG	✓	✓	✓	✓	8	✓	field pH = 4.71

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[Signature]	02/03/23	0920	1. K...	02/03/23	0920
2. K...	02/03/23	1130	2. M...	2-03-23	1130
3.					

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, V, Zn, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MIR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Work Order Number: GEL Project Manager: Erin Trent
 Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone #: 404-506-7116
 Fax #: _____
 Collected By: A Schwab ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive (If yes, please supply isotopic info)	Should this sample be considered: (7) Known or possible hazards	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Comments
KRA-GWC-12	02/01/23	1210	G	N	WG	N	N	8	CL, F, SO ₄ , TDS EPA 300, SM 2540C Metals * EPA 6020, 6010, 7470 Dissolved Metals * EPA 6020, 6010, 7470 Radium 226 & 228 SW-846 9315, 9320	Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023S1 field pH = 3.93
KRA-MW-23D	02/01/23	1540	G	N	WG	N	N	8		field pH = 6.16
KRA-GWC-13	02/01/23	1015	G	N	WG	N	N	8		field pH = 4.86
KRA-GWB-4R	02/02/23	1000	G	N	WG	N	N	8		field pH = 5.99
KRA-GWC-22	02/02/23	0949	G	N	WG	N	N	8		field pH = 4.63
KRA-GWC-1	02/02/23	1115	G	N	WG	N	N	8		field pH = 5.78
KRA-GWC-2	02/02/23	1201	G	N	WG	N	N	8		field pH = 4.60
KRA-GWC-14	02/02/23	1325	G	N	WG	N	N	8		field pH = 5.98
KRA-GWC-15	02/02/23	1435	G	N	WG	N	N	8		field pH = 6.65
KRA-GWC-21	02/02/23	1400	G	N	WG	N	N	8		field pH = 5.71

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. [Signature] 02/03/23 0920
 2. [Signature] 02/03/23 1130
 3. _____

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Y,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sludge, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 RCRA Metals _____
 AS = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: _____
GEL Project Manager: Erin Trent

Phone # 404-506-7116

Fax # _____

Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: A Schwabauer ACC

Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID <small>* For composites - indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Total number of containers					Preservative Type (6)	Comments
						Radioactive (if yes, please supply isotopic info)	(7) Known or possible Hazards	NI	NI	NI	NI	NI		
KRA-MW-24D	02/02/23	1500	G	N	WG	N	N	8	✓	✓	✓	✓	✓	field pH = 6.23
KRA-MW-25D	02/02/23	1305	G	N	WG	N	N	8	✓	✓	✓	✓	✓	field pH = 6.19
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =
KRA-														field pH =

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	02/03/23	0920	<u>[Signature]</u>	02/03/23	0920
<u>[Signature]</u>	02/03/23	1130	<u>[Signature]</u>	2-03-23	1130

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,TH,Y,Zn,Hg

Chain of Custody Signatures

1. Chain of Custody Number = Client Determined

2. QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3. Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4. Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5. Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6. Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7. KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

TSCA Regulated
 PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____
 GEL Work Order Number: _____
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	OC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radiative (if isotopic info)	Should this sample be considered:	Total number of containers	EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Dissolved Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Preservative Type (6)	Comments
KRA-GR-L-FD-01	02/01/23	1410	G	N	WG	N	Yes, please supply	6	✓	✓	✓	✓	QC	Note: extra sample is required for sample specific
KRA-GR-L-FB-01	02/01/23	1410	G	N	WQ	N	Known or possible Hazards (7)	6	✓	✓	✓	✓	NA	Task Code: KRA-CCR-ASSMT-2023S1
KRA-GR-L-FB-02	02/01/23	1550	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-EB-04	02/01/23	1100	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-EB-05	02/02/23	1035	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-FD-02	02/02/23	1325	G	N	WG	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-FD-03	02/02/23	1325	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-FB-03	02/02/23	1310	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-GR-L-EB-06	02/02/23	1310	G	N	WQ	N		6	✓	✓	✓	✓	NA	field pH = NA
KRA-														field pH =

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Time _____

Received by (signed) _____ Date 02/03/23 Time 0920

_____ Date 02/03/23 Time 1130

_____ Date _____ Time _____

3

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s): _____

Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

TSCA Regulated
 PCB = Polychlorinated biphenyls

SAMPLE RECEIPT & REVIEW FORM

Client: CPCC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2-3-23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 0 CPM/mR/Hr
 Classified as: **Rad 1 Rad 2 Rad 3**

D) Did the client designate samples are hazardous? COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>0°</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>			If Yes, are Ancores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 COC says none bottle says 15:00</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>			
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 COC says none bottle says 12:10

List of current GEL Certifications as of 16 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 15, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 613115

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. This sample is a client requested reanalysis of original sample 609397007. The sample is being reanalyzed for Antimony.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 613115 GEL Work Order: 613115

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 8, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-17 Project: GPCC00102
Sample ID: 613115001 Client ID: GPCC001
Matrix: WG
Collect Date: 01-FEB-23 15:50
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	J	0.00286	0.00100	0.00300	mg/L	1.00	1	SKJ	03/07/23	2119	2393939	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	CD3	03/06/23	1600	2393938

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 8, 2023

Page 1 of 2

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 613115

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2393939										
QC1205337547	LCS										
Antimony	0.0500			0.0509	mg/L		102	(80%-120%)	SKJ	03/07/23	21:16
QC1205337546	MB										
Antimony			U	ND	mg/L					03/07/23	21:12
QC1205337548	613115001	MS									
Antimony	0.0500	J	0.00286	0.0525	mg/L		99.4	(75%-125%)		03/07/23	21:23
QC1205337549	613115001	MSD									
Antimony	0.0500	J	0.00286	0.0529	mg/L	0.584	100	(0%-20%)		03/07/23	21:26
QC1205337550	613115001	SDILT									
Antimony		J	2.86	U	ND	ug/L	N/A	(0%-20%)		03/07/23	21:33

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 613115

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
FB		Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies									
N1		See case narrative									
Y		Other specific qualifiers were required to properly define the results. Consult case narrative.									
J		See case narrative for an explanation									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 613115

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2393939

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2393938

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
613115001	KRA-GWC-17
1205337546	Method Blank (MB)ICP-MS
1205337547	Laboratory Control Sample (LCS)
1205337550	613115001(KRA-GWC-17L) Serial Dilution (SD)
1205337548	613115001(KRA-GWC-17S) Matrix Spike (MS)
1205337549	613115001(KRA-GWC-17SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 4
 Project # 609397
 GEL Quote #: 603
 COC Number (1):
 PO Number:
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax #
 Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Smith
 ACC
 Send Results To: SCS & ACC Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
						(7) Known or Possible Hazards	Radioactive (if yes, please supply isotopic info)	NI	NI	NI	NI	NI	
KRA-GWA-7	01/31/23	1532	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 6.02
KRA-GWA-7	01/31/23	1532	G	Y	WG	N	N	1	✓	✓	✓	✓	field pH = 6.02 NA
KRA-GWA-8	01/31/23	1655	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.60
KRA-GWB-6R	02/01/23	0920	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.54
KRA-GWB-SR	02/01/23	1030	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.81
KRA-GWC-9	02/01/23	1135	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.57
KRA-GWC-20	02/01/23	1400	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 6.01
KRA-GWC-17	02/01/23	1550	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.74
KRA-GWC-16	02/01/23	1615	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 6.23
KRA-GWC-11	02/01/23	1645	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.71

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[Signature]	02/03/23	0920	1. K...	02/03/23	0920
2. K...	02/03/23	1130	2. M...	2-03-23	1130
3.					

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, V, Zn, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Mountain Other: _____

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MIR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: *Erin Trent*

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *A Schwab* ACC

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)
KRA-GWC-12	02/01/23	1210	G	N	WG
KRA-MW-23D	02/01/23	1540	G	N	WG
KRA-GWC-13	02/01/23	1015	G	N	WG
KRA-GWB-4R	02/02/23	1000	G	N	WG
KRA-GWC-22	02/02/23	0949	G	N	WG
KRA-GWC-1	02/02/23	1115	G	N	WG
KRA-GWC-2	02/02/23	1201	G	N	WG
KRA-GWC-14	02/02/23	1325	G	N	WG
KRA-GWC-15	02/02/23	1435	G	N	WG
KRA-GWC-21	02/02/23	1400	G	N	WG

Should this sample be considered:	Total number of containers	Metals *	Dissolved Metals *	EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	IN	IN	IN	Comments
Radioactive (if isotopic info. yes, please supply)	8	✓	✓	✓	✓	✓	✓	✓	Note: extra sample is required for sample specific QC
(7) Known or possible Hazards	8	✓	✓	✓	✓	✓	✓	✓	Task Code: KRA-CCR-ASSMT-2023S1
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 3.93
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 6.16
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 4.86
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 5.99
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 4.63
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 5.78
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 4.60
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 5.98
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 6.65
	8	✓	✓	✓	✓	✓	✓	✓	field pH = 5.71

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	02/03/23	0920	<i>[Signature]</i>	02/03/23	0920
<i>[Signature]</i>	02/03/23	1130	<i>[Signature]</i>	02/03/23	1130

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WL=Leachate, SO=Soil, SE=Sludge, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Y,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No **Cooler Temp:** _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Other: _____

OT= Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 3 of 4
 Project # _____
 GEL Quote #: _____
 COC Number ⁽¹⁾: _____
 PO Number: _____



Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Phone # 404-506-7116
 Fax # _____

GEL Work Order Number: _____
 Send Results To: SCS & ACC Contacts
 Collected By: A Schwab ACC

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Total number of containers	Should this sample be considered: <input type="checkbox"/> Known or possible Hazards <input type="checkbox"/> Radioactive (if yes, please supply isotopic info)	Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)						Preservative Type ⁽⁶⁾	Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
								NI	NI	NI	NI	NI	NI		
KRA-MW-24D	02/02/23	1500	G	N	WG	8	<input checked="" type="checkbox"/>	Cl, F, SO ₄ , TDS EPA 300, SM 2540C	<input checked="" type="checkbox"/>	EPA 6020, 6010, 7470 Dissolved Metals *	<input checked="" type="checkbox"/>	Radium 226 & 228 SW-846 9315, 9320	<input checked="" type="checkbox"/>	field pH = <u>6.23</u>	
KRA-MW-25D	02/02/23	1305	G	N	WG	8	<input checked="" type="checkbox"/>	Cl, F, SO ₄ , TDS EPA 300, SM 2540C	<input checked="" type="checkbox"/>	EPA 6020, 6010, 7470 Dissolved Metals *	<input checked="" type="checkbox"/>	Radium 226 & 228 SW-846 9315, 9320	<input checked="" type="checkbox"/>	field pH = <u>6.19</u>	
KRA-														field pH = _____	
KRA-														field pH = _____	
KRA-														field pH = _____	
KRA-														field pH = _____	
KRA-														field pH = _____	
KRA-														field pH = _____	
KRA-														field pH = _____	

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. A Schwab 02/03/23 0920
 2. Erin Trent 02/03/23 1130
 3. _____

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,THY,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
Waste code(s):
TSCA Regulated
 PCB = Polychlorinated biphenyls
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Work Order Number: _____ Phone # 404-506-7116
 Client Name: GA Power Fax # _____
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A Schmitt ACC Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)
 Total number of containers: _____
 Should this sample be considered: _____
 (7) Known or possible Hazards: _____
 (Isotopic info) _____
 (Radioactive) _____
 (Yes, please supply) _____
 (C, F, SO4, TDS) _____
 (Metals) _____
 (EPA 6020, 6010, 7470) _____
 (Dissolved Metals) _____
 (EPA 6020, 6010, 7470) _____
 (Radium 226 & 228) _____
 (SW-846 9315, 9320) _____
 (Preservative Type (6)) _____

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	OC Code (a)	Field Filtered (b)	Sample Matrix (c)
KRA-GR-L-FD-01	02/01/23	1410	G	N	WG
KRA-GR-L-FB-01	02/01/23	1410	G	N	WQ
KRA-GR-L-FB-02	02/01/23	1550	G	N	WQ
KRA-GR-L-EB-04	02/01/23	1100	G	N	WQ
KRA-GR-L-EB-05	02/02/23	1035	G	N	WQ
KRA-GR-L-FD-02	02/02/23	1325	G	N	WG
KRA-GR-L-FD-03	02/02/23	1325	G	N	WQ
KRA-GR-L-FB-03	02/02/23	1310	G	N	WQ
KRA-GR-L-EB-06	02/02/23	1310	G	N	WQ
KRA-					

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. Kuba 02/03/23 0920
 2. M. A. 02/03/23 1130
 3. _____
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Bi,Cd,Cr,Co,Ph,Li,Mo,Se,Ti,V,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive, TSCA Regulated, PCB = Polychlorinated biphenyls
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: CPCC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2-3-23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 0 CPM/mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? Yes No If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>0°</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Ancores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 coc says none bottle says 15:00</u>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 coc says none bottle says 12:10

List of current GEL Certifications as of 08 March 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

March 08, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 609399

Dear Kristen Jurinko:

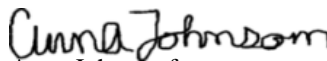
GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The following additional comments were noted at receipt: (insert text box). *609399022(KRA-GRL-FD-01) and 609399028(KRA-GRL-FD-03)*. Sample containers listed times of collection while the chain of custody did not. client was notified and advised the times on the containers were correct. *609399022(KRA-GRL-FD-01) and 609399028(KRA-GRL-FD-03)*.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609399 GEL Work Order: 609399

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-7
 Sample ID: 609399001
 Matrix: WG
 Collect Date: 31-JAN-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.40	+/-1.51	2.38	+/-1.63	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.86	+/-1.62	2.38	+/-1.76		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.46	+/-0.592	0.387	+/-0.666	1.00	pCi/L			LXP1	03/05/23	0822	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	77.9	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-8
 Sample ID: 609399002
 Matrix: WG
 Collect Date: 31-JAN-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.02	+/-1.60	2.75	+/-1.62	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.96	+/-1.66	2.75	+/-1.70		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.944	+/-0.460	0.447	+/-0.514	1.00	pCi/L			LXP1	03/05/23	0822	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	65	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-6R
 Sample ID: 609399003
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.72	+/-1.68	2.44	+/-1.93	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.93	+/-1.76	2.44	+/-2.01		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.21	+/-0.527	0.367	+/-0.563	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	68.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-5R
 Sample ID: 609399004
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.13	+/-1.80	2.54	+/-2.09	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		6.51	+/-1.92	2.54	+/-2.22		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.39	+/-0.681	0.320	+/-0.774	1.00	pCi/L			LXP1	03/05/23	0908	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	59	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-9
 Sample ID: 609399005
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.99	+/-1.61	2.21	+/-1.90	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.12	+/-1.68	2.21	+/-1.98		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.13	+/-0.481	0.328	+/-0.544	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	66.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-20
 Sample ID: 609399006
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.28	+/-1.66	2.49	+/-1.86	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.77	+/-1.88	2.49	+/-2.10		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.49	+/-0.881	0.602	+/-0.963	1.00	pCi/L			LXP1	03/05/23	0908	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	69	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-17
 Sample ID: 609399007
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.87	+/-1.37	2.17	+/-1.45	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.83	+/-1.44	2.17	+/-1.52		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.959	+/-0.430	0.392	+/-0.461	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	71.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-16
 Sample ID: 609399008
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.85	+/-1.15	1.67	+/-1.24	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.17	+/-1.29	1.67	+/-1.41		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.32	+/-0.602	0.660	+/-0.677	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	62.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11
 Sample ID: 609399009
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		6.26	+/-1.63	1.73	+/-2.28	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		11.2	+/-1.96	1.73	+/-2.76		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		4.96	+/-1.09	0.584	+/-1.57	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	68	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-12
 Sample ID: 609399010
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.14	+/-1.20	2.00	+/-1.24	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.07	+/-1.29	2.00	+/-1.33		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.928	+/-0.474	0.440	+/-0.501	1.00	pCi/L			LXP1	03/05/23	0844	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	69.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-23D
 Sample ID: 609399011
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.59	+/-1.07	1.60	+/-1.14	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.44	+/-1.18	1.60	+/-1.26		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.854	+/-0.498	0.549	+/-0.521	1.00	pCi/L			LXP1	03/05/23	0908	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	65.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-13
 Sample ID: 609399012
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	2.00	+/-1.36	2.12	+/-1.45	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.85	+/-1.45	2.12	+/-1.54		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.855	+/-0.504	0.637	+/-0.533	1.00	pCi/L			LXP1	03/05/23	0929	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	72.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-4R
 Sample ID: 609399013
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		4.27	+/-1.57	2.19	+/-1.91	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.79	+/-1.66	2.19	+/-2.01		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.52	+/-0.561	0.336	+/-0.611	1.00	pCi/L			LXP1	03/05/23	0908	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	80.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-22
 Sample ID: 609399014
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.99	+/-1.50	2.24	+/-1.68	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.13	+/-1.59	2.24	+/-1.77		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.14	+/-0.536	0.401	+/-0.564	1.00	pCi/L			LXP1	03/05/23	0929	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	79.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-1
 Sample ID: 609399015
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.75	+/-1.03	1.51	+/-1.12	3.00	pCi/L			JE1	03/07/23	1310	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.54	+/-1.21	1.51	+/-1.31		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.79	+/-0.635	0.517	+/-0.686	1.00	pCi/L			LXP1	03/05/23	0908	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	79.1	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-2
 Sample ID: 609399016
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.224	+/-1.05	1.93	+/-1.05	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.11	+/-1.14	1.93	+/-1.16		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.888	+/-0.446	0.520	+/-0.482	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	79	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-14
 Sample ID: 609399017
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.439	+/-1.07	1.91	+/-1.08	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.31	+/-1.18	1.91	+/-1.20		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.874	+/-0.504	0.651	+/-0.533	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	84.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-15
 Sample ID: 609399018
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.50	+/-1.18	1.90	+/-1.24	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.14	+/-1.29	1.90	+/-1.38		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.64	+/-0.507	0.298	+/-0.599	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	90.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21
 Sample ID: 609399019
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.0879	+/-1.01	1.88	+/-1.01	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.15	+/-1.37	1.88	+/-1.69		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		5.07	+/-0.926	0.331	+/-1.35	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	86.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-24D
 Sample ID: 609399020
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.93	+/-1.86	3.02	+/-1.92	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	2.52	+/-1.89	3.02	+/-1.96		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.586	+/-0.348	0.401	+/-0.365	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	37.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-25D
 Sample ID: 609399021
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.32	+/-1.35	1.98	+/-1.48	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.98	+/-1.40	1.98	+/-1.53		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.663	+/-0.368	0.467	+/-0.394	1.00	pCi/L			LXP1	03/03/23	0958	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	63.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-01
 Sample ID: 609399022
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.886	+/-1.07	1.80	+/-1.09	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.71	+/-1.14	1.80	+/-1.17		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.827	+/-0.403	0.352	+/-0.433	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	74.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-01
 Sample ID: 609399023
 Matrix: WQ
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.35	+/-1.13	1.81	+/-1.18	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.16	+/-1.20	1.81	+/-1.26		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.816	+/-0.392	0.391	+/-0.419	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	69.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-02
 Sample ID: 609399024
 Matrix: WQ
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.714	+/-1.09	1.89	+/-1.11	3.00	pCi/L			JE1	03/02/23	1028	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.53	+/-1.17	1.89	+/-1.20		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.818	+/-0.418	0.435	+/-0.461	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	81.3	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-04
 Sample ID: 609399025
 Matrix: WQ
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.903	+/-1.18	2.01	+/-1.20	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.39	+/-1.23	2.01	+/-1.26		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.485	+/-0.356	0.465	+/-0.366	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	61.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

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 Address : 241 Ralph McGill Blvd NE
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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-05
 Sample ID: 609399026
 Matrix: WQ
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.568	+/-1.04	1.84	+/-1.05	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.895	+/-1.08	1.84	+/-1.09		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.327	+/-0.277	0.392	+/-0.283	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	74.4	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

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 Address : 241 Ralph McGill Blvd NE
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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-02
 Sample ID: 609399027
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.0536	+/-1.00	1.88	+/-1.00	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.703	+/-1.06	1.88	+/-1.07		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.703	+/-0.359	0.374	+/-0.382	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	86.6	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-03
 Sample ID: 609399028
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.57	+/-1.17	1.85	+/-1.24	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.58	+/-1.27	1.85	+/-1.34		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.00	+/-0.506	0.612	+/-0.530	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	83.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-03
 Sample ID: 609399029
 Matrix: WQ
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.46	+/-1.18	1.91	+/-1.24	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.14	+/-1.24	1.91	+/-1.31		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.686	+/-0.381	0.469	+/-0.415	1.00	pCi/L			LXP1	03/03/23	1034	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	86.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
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 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-06
 Sample ID: 609399030
 Matrix: WQ
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.716	+/-1.09	1.88	+/-1.10	3.00	pCi/L			JE1	03/02/23	1029	2378778	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.01	+/-1.12	1.88	+/-1.13		pCi/L			GXR1	03/03/23	1153	2378779	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.297	+/-0.249	0.324	+/-0.254	1.00	pCi/L			LXP1	03/03/23	1109	2378763	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378778	75.7	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 609399**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2378776

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399001	KRA-GWA-7
609399002	KRA-GWA-8
609399003	KRA-GWB-6R
609399004	KRA-GWB-5R
609399005	KRA-GWC-9
609399006	KRA-GWC-20
609399007	KRA-GWC-17
609399008	KRA-GWC-16
609399009	KRA-GWC-11
609399010	KRA-GWC-12
609399011	KRA-MW-23D
609399012	KRA-GWC-13
609399013	KRA-GWB-4R
609399014	KRA-GWC-22
609399015	KRA-GWC-1

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2378779

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399016	KRA-GWC-2
609399017	KRA-GWC-14
609399018	KRA-GWC-15
609399019	KRA-GWC-21

609399020	KRA-MW-24D
609399021	KRA-MW-25D
609399022	KRA-GRL-FD-01
609399023	KRA-GRL-FB-01
609399024	KRA-GRL-FB-02
609399025	KRA-GRL-EB-04
609399026	KRA-GRL-EB-05
609399027	KRA-GRL-FD-02
609399028	KRA-GRL-FD-03
609399029	KRA-GRL-FB-03
609399030	KRA-GRL-EB-06

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2378777

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399001	KRA-GWA-7
609399002	KRA-GWA-8
609399003	KRA-GWB-6R
609399004	KRA-GWB-5R
609399005	KRA-GWC-9
609399006	KRA-GWC-20
609399007	KRA-GWC-17
609399008	KRA-GWC-16
609399009	KRA-GWC-11
609399010	KRA-GWC-12
609399011	KRA-MW-23D
609399012	KRA-GWC-13
609399013	KRA-GWB-4R
609399014	KRA-GWC-22
609399015	KRA-GWC-1
1205311817	Method Blank (MB)
1205311818	609368001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205311819	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and

procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Samples were re-eluted and recounted to verify sample results. The recounts are reported.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2378778

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399016	KRA-GWC-2
609399017	KRA-GWC-14
609399018	KRA-GWC-15
609399019	KRA-GWC-21
609399020	KRA-MW-24D
609399021	KRA-MW-25D
609399022	KRA-GRL-FD-01
609399023	KRA-GRL-FB-01
609399024	KRA-GRL-FB-02
609399025	KRA-GRL-EB-04
609399026	KRA-GRL-EB-05
609399027	KRA-GRL-FD-02
609399028	KRA-GRL-FD-03
609399029	KRA-GRL-FB-03
609399030	KRA-GRL-EB-06
1205311820	Method Blank (MB)
1205311821	609361001(NonSDG) Sample Duplicate (DUP)
1205311822	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

RDL Met

The following RDL was met with rounding.

Sample	Analyte	Value
609399020 (KRA-MW-24D)	Radium-228	Result 1.93 < MDA 3.02 > RDL 3 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2378762

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399001	KRA-GWA-7
609399002	KRA-GWA-8
609399003	KRA-GWB-6R
609399004	KRA-GWB-5R
609399005	KRA-GWC-9
609399006	KRA-GWC-20
609399007	KRA-GWC-17
609399008	KRA-GWC-16
609399009	KRA-GWC-11
609399010	KRA-GWC-12
609399011	KRA-MW-23D
609399012	KRA-GWC-13
609399013	KRA-GWB-4R
609399014	KRA-GWC-22
609399015	KRA-GWC-1
1205311793	Method Blank (MB)
1205311794	609368001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205311795	609368001(KRA-CLIFTON-SEEP) Matrix Spike (MS)
1205311796	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2378763

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609399016	KRA-GWC-2
609399017	KRA-GWC-14

609399018	KRA-GWC-15
609399019	KRA-GWC-21
609399020	KRA-MW-24D
609399021	KRA-MW-25D
609399022	KRA-GRL-FD-01
609399023	KRA-GRL-FB-01
609399024	KRA-GRL-FB-02
609399025	KRA-GRL-EB-04
609399026	KRA-GRL-EB-05
609399027	KRA-GRL-FD-02
609399028	KRA-GRL-FD-03
609399029	KRA-GRL-FB-03
609399030	KRA-GRL-EB-06
1205311797	Method Blank (MB)
1205311798	609361001(NonSDG) Sample Duplicate (DUP)
1205311799	609361001(NonSDG) Matrix Spike (MS)
1205311800	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

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QC Summary

Report Date: March 8, 2023

Page 1 of 3

Client : Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 609399

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2378777										
QC1205311818	609368001 DUP										
Radium-228		2.89	U	1.27	pCi/L	78.2		(0% - 100%)	JE1	03/07/23	13:09
	Uncert:	+/-1.80		+/-0.956							
	TPU:	+/-1.94		+/-1.01							
QC1205311819	LCS										
Radium-228	63.1			67.0	pCi/L		106	(75%-125%)	JE1	03/07/23	13:09
	Uncert:			+/-4.20							
	TPU:			+/-17.5							
QC1205311817	MB										
Radium-228			U	1.00	pCi/L				JE1	03/07/23	13:09
	Uncert:			+/-1.08							
	TPU:			+/-1.11							
Batch	2378778										
QC1205311821	609361001 DUP										
Radium-228	U	0.232	U	1.72	pCi/L	0		N/A	JE1	03/02/23	10:27
	Uncert:	+/-1.57		+/-1.64							
	TPU:	+/-1.57		+/-1.69							
QC1205311822	LCS										
Radium-228	63.2			64.4	pCi/L		102	(75%-125%)	JE1	03/02/23	10:27
	Uncert:			+/-4.63							
	TPU:			+/-17.0							
QC1205311820	MB										
Radium-228			U	0.392	pCi/L				JE1	03/02/23	10:27
	Uncert:			+/-1.06							
	TPU:			+/-1.07							
Rad Ra-226											
Batch	2378762										
QC1205311794	609368001 DUP										
Radium-226		0.689		0.778	pCi/L	12.1		(0% - 100%)	LXP1	03/05/23	09:29
	Uncert:	+/-0.427		+/-0.461							
	TPU:	+/-0.446		+/-0.479							
QC1205311796	LCS										
Radium-226	25.0			23.0	pCi/L		92.2	(75%-125%)	LXP1	03/05/23	09:29
	Uncert:			+/-1.99							
	TPU:			+/-5.09							
QC1205311793	MB										
Radium-226			U	0.443	pCi/L				LXP1	03/05/23	09:29
	Uncert:			+/-0.416							
	TPU:			+/-0.421							
QC1205311795	609368001 MS										
Radium-226	25.0	0.689		21.9	pCi/L		85.1	(75%-125%)	LXP1	03/05/23	09:29

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 609399

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Ra-226										
Batch	2378762									
		Uncert:	+/-0.427							
		TPU:	+/-0.446							
Batch	2378763									
QC1205311798	609361001	DUP								
Radium-226			0.553	0.522	pCi/L	5.77	(0% - 100%)	LXP1	03/03/23	11:09
		Uncert:	+/-0.383	+/-0.343						
		TPU:	+/-0.391	+/-0.357						
QC1205311800	LCS									
Radium-226		53.2		49.4	pCi/L		92.8 (75%-125%)	LXP1	03/03/23	11:09
		Uncert:		+/-2.82						
		TPU:		+/-9.07						
QC1205311797	MB									
Radium-226			U	0.316	pCi/L			LXP1	03/03/23	11:09
		Uncert:		+/-0.346						
		TPU:		+/-0.353						
QC1205311799	609361001	MS								
Radium-226		131	0.553	115	pCi/L		87.1 (75%-125%)	LXP1	03/03/23	11:09
		Uncert:	+/-0.383	+/-9.96						
		TPU:	+/-0.391	+/-26.0						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

GEL LABORATORIES LLC

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QC Summary

Workorder: 609399

Page 3 of 3

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
L										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A Schwab ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (U)	Field Filtered (U)	Sample Matrix (U)
KRA-GR-L-FD-01	02/01/23	1410	G	N	WG
KRA-GR-L-FB-01	02/01/23	1550	G	N	WQ
KRA-GR-L-FB-02	02/01/23	1100	G	N	WQ
KRA-GR-L-EB-04	02/02/23	1035	G	N	WQ
KRA-GR-L-FD-02	02/02/23	1325	G	N	WG
KRA-GR-L-FD-03	02/02/23	1310	G	N	WQ
KRA-GR-L-EB-06	02/02/23				

Should this sample be considered:	Total number of containers	Preservative Type (6)	Comments
Yes, please supply isotopic info. (U)	EPA 300, SM 2540C		Note: extra sample is required for sample specific QC
(7) Known or possible Hazards	Metals * EPA 6020, 6010, 7470		Task Code: KRA-CCR-ASSMT-2023SI
	Disolved Metals * EPA 6020, 6010, 7470		field pH = NA
	Radium 226 & 228 SW-846 9315, 9320		field pH = NA

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (Signed)	Date	Time
<i>[Signature]</i>	02/03/23	K. K. K.	02/03/23	0920
<i>[Signature]</i>	02/03/23	M. M. M.	2-03-23	1130

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	As = Arsenic	Hg = Mercury
	Ba = Barium	Se = Selenium
	Cd = Cadmium	Ag = Silver
	Cr = Chromium	MIR = Misc. RCRA metals
	Pb = Lead	

Characteristics Hazards

FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste

LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s): _____

TSCA Regulated

PCB = Polychlorinated biphenyls

Other

OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Sample Analysis Requested (6) (Fill in the number of containers for each test)

Sample Analysis Requested (6)	Number of Containers
Preservative Type (6)	

TAT Requested: Normal: Yes No Rush: Yes No

Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, V, Zn, Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No **Cooler Temp:** _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

QC Summary: Level 1 Level 2 Level 3 Level 4

Subject to Surcharge: _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories, LLC
 Chemistry / Radiochemistry / Radioassay / Speciality Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered: (7) Known or possible Hazards (If Yes, please supply isotopic info)	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Comments
KRA-GWA-7	01/31/23	1532	G	N	WG	Y	8	QC	field pH = 6.02
KRA-GWA-7	01/31/23	1532	G	Y	WG	N	1	QC	field pH = 6.02 NA
KRA-GWA-8	01/31/23	1655	G	N	WG	Y	8	QC	field pH = 4.60
KRA-GWB-6R	02/01/23	0920	G	N	WG	Y	8	QC	field pH = 5.54
KRA-GWB-SR	02/01/23	1030	G	N	WG	Y	8	QC	field pH = 5.81
KRA-GWC-9	02/01/23	1135	G	N	WG	Y	8	QC	field pH = 4.57
KRA-GWC-20	02/01/23	1400	G	N	WG	Y	8	QC	field pH = 6.01
KRA-GWC-17	02/01/23	1550	G	N	WG	Y	8	QC	field pH = 4.74
KRA-GWC-16	02/01/23	1615	G	N	WG	Y	8	QC	field pH = 6.23
KRA-GWC-11	02/01/23	1645	G	N	WG	Y	8	QC	field pH = 4.71

Task Code: KRA-CCR-ASSMT-2023SI
 Note: extra sample is required for sample specific QC
 (Fe, Mg, Mn, K, Na, Ni, Pb, Cu, Zn, Cd, Cr, Co, Ni, Pb, Li, Mo, Se, Tl, V, Zn, Hg)
 Cations: Fe, Mg, Mn, Ni, Pb, Cu, Zn, Cd, Cr, Co, Ni, Pb, Li, Mo, Se, Tl, V, Zn, Hg
 SM 4500
 SW-846 9315, 9320
 Radium 226 & 228
 EPA 6020, 6010, 7470
 Dissolved Metals *
 EPA 6020, 6010, 7470
 Metals *
 EPA 300, SM 2540C
 Cl, F, SO4, TDS

TAT Requested: Normal: Rush: Specify: _____
 (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,V,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other: _____

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (signed) Date Time
 1. [Signature] 02/03/23 0920 [Signature] 02/03/23 0920
 2. [Signature] 02/03/23 1130 [Signature] 2-03-23 1130
 3. _____
 > For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F,K,P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Hg = Mercury Se = Selenium Ag = Silver MR = Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (2)	Sample Matrix (4)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
						Yes, please supply isotopic info)	(7) Known or possible Hazards		EPA 300, SM4, TDS Metals *	EPA 6020, 6010, 7470 Dissolved Metals *	Radium 226 & 228 SW-846 9315, 9320	Preservative Type (6)		
KRA-GWC-12	02/01/23	1210	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 3.93	
KRA-MW-23D	02/01/23	1540	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 6.16	
KRA-GWC-13	02/01/23	1015	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.86	
KRA-GWB-4R	02/02/23	1000	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.99	
KRA-GWC-22	02/02/23	0949	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.63	
KRA-GWC-1	02/02/23	1115	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.78	
KRA-GWC-2	02/02/23	1201	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 4.60	
KRA-GWC-14	02/02/23	1325	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.98	
KRA-GWC-15	02/02/23	1435	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 6.65	
KRA-GWC-21	02/02/23	1400	G	N	WG	N	N	8	✓	✓	✓	✓	field pH = 5.71	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	02/03/23	0920	<i>[Signature]</i>	02/03/23	0920
<i>[Signature]</i>	02/03/23	1130	<i>[Signature]</i>	2-03-23	1130
				3	

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Y,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Pb = Lead
Characteristic Hazards
 LW = Listed Waste (F,K,P and U-listed wastes)
 RE = Reactive
Listed Waste
 TSCA Regulated
 PCB = Polychlorinated biphenyls
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Client Name: GA Power Phone # 404-506-7116
 Project/Site Name: Plant Kraft - Grumman Road Landfill Fax # _____
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Schwab ACC Send Results To: SCS & ACC Contacts

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)						Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI	
						(7) Known or Possible Hazards	(8) Radiactive (if isotopic info) Yes, please supply	NI	NI	NI	NI	NI	NI		NI
KRA-MW-24D	02/02/23	1500	G	N	WG	N	N	8	8	8	8	8	8	8	field pH = 6.23
KRA-MW-25D	02/02/23	1305	G	N	WG	N	N	8	8	8	8	8	8	8	field pH = 6.19
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =
KRA-															field pH =

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	02/02/23	0920	<i>[Signature]</i>	02/03/23	0920
<i>[Signature]</i>	02/03/23	1130	<i>[Signature]</i>	2-03-23	1130

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Y,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. 8200B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns, (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

609399

SAMPLE RECEIPT & REVIEW FORM

Client: CIPEC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2-3-23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>0</u> °
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 coc says none bottle says 15:00</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 coc says none bottle says 12:10

PM (or PMA) review: Initials AM Date 2/6/23 Page 1 of 1

Anna Johnson

From: Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Sent: Wednesday, February 8, 2023 4:24 PM
To: Anna Johnson
Cc: Team Trent; Jurinko, Kristen Nichole; betsy.mcdaniel@atlcc.net
Subject: FW: time discrepancy (609397 & 609399)
Attachments: GPCC 609399 & 609397.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Anna,

Please use the same time as shown on the sample container for these samples. These appear to be field duplicates for QC checks and so, I believe the time was intentionally left blank on the COC.

Joju

From: Anna Johnson <Anna.Johnson@gel.com>
Sent: Wednesday, February 08, 2023 3:20 PM
To: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Abraham, Joju <JABRAHAM@SOUTHERNCO.COM>
Cc: Team Trent <Team.Trent@gel.com>
Subject: time discrepancy (609397 & 609399)

EXTERNAL MAIL: Caution Opening Links or Files

Sample container KRA-GRL-FD-01 says the time 1210 and the chain of custody does not list a time.
Sample container KRA-GRL-FD-03 says the time 1500 and the chain of custody does not list a time.
please advise, see attachment for reference.
Thanks !

Anna Johnson
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: anna.johnson@gel.com | Website: www.gel.com [gel.com]

Analytical Testing



[\[gellaboratories.com\]](http://gellaboratories.com)



[\[linkedin.com\]](http://linkedin.com)

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List of current GEL Certifications as of 08 March 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

March 29, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 614354

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. These samples are client requested reanalyses of original samples 609399004, 609399005, 609399009, and 609399019.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 614354 GEL Work Order: 614354

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 28, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-5R
 Sample ID: 614354001
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.33	+/-0.933	1.43	+/-0.992	3.00	pCi/L			JE1	03/21/23	1101	2398739	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.28	+/-1.21	1.43	+/-1.29		pCi/L		1	GXR1	03/28/23	1602	2398769	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.95	+/-0.766	0.446	+/-0.819	1.00	pCi/L			LXP1	03/27/23	0857	2398771	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2398739	86.8	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 28, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-9
 Sample ID: 614354002
 Matrix: WG
 Collect Date: 01-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.70	+/-1.43	2.18	+/-1.59	3.00	pCi/L			JE1	03/21/23	1101	2398739	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.17	+/-1.57	2.18	+/-1.74		pCi/L		1	GXR1	03/28/23	1602	2398769	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.47	+/-0.636	0.471	+/-0.704	1.00	pCi/L			LXP1	03/27/23	0915	2398771	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2398739	85.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: March 28, 2023

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11
Sample ID: 614354003
Matrix: WG
Collect Date: 01-FEB-23
Receive Date: 03-FEB-23
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		3.99	+/-1.65	2.40	+/-1.93	3.00	pCi/L			JE1	03/21/23	1101	2398739	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.87	+/-1.81	2.40	+/-2.12		pCi/L		1	GXR1	03/28/23	1602	2398769	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.89	+/-0.758	0.450	+/-0.880	1.00	pCi/L			LXP1	03/27/23	0915	2398771	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2398739	83.2	(15%-125%)

Notes:
The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 28, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21
 Sample ID: 614354004
 Matrix: WG
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.18	+/-1.23	1.88	+/-1.35	3.00	pCi/L			JE1	03/21/23	1101	2398739	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.73	+/-1.47	1.88	+/-1.60		pCi/L		1	GXR1	03/28/23	1602	2398769	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.55	+/-0.800	0.902	+/-0.857	1.00	pCi/L			LXP1	03/27/23	0915	2398771	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2398739	96.5	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 614354**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2398769

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
614354001	KRA-GWB-5R
614354002	KRA-GWC-9
614354003	KRA-GWC-11
614354004	KRA-GWC-21

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2398739

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
614354001	KRA-GWB-5R
614354002	KRA-GWC-9
614354003	KRA-GWC-11
614354004	KRA-GWC-21
1205346214	Method Blank (MB)
1205346215	614354001(KRA-GWB-5R) Sample Duplicate (DUP)
1205346216	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Samples 1205346215 (KRA-GWB-5RDUP) and 614354001 (KRA-GWB-5R) were non-homogenous matrix. Samples were tinted yellow 1205346215 (KRA-GWB-5RDUP) and 614354001 (KRA-GWB-5R).

Quality Control (QC) Information

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205346214 (MB)	Radium-228	Result: 2.43 pCi/L > MDA: 1.36 pCi/L <= RDL: 3.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2398771

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
614354001	KRA-GWB-5R
614354002	KRA-GWC-9
614354003	KRA-GWC-11
614354004	KRA-GWC-21
1205346274	Method Blank (MB)
1205346275	614354001(KRA-GWB-5R) Sample Duplicate (DUP)
1205346276	614354001(KRA-GWB-5R) Matrix Spike (MS)
1205346277	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Samples 1205346275 (KRA-GWB-5RDUP) and 614354001 (KRA-GWB-5R) were non-homogenous matrix. Samples 1205346275 (KRA-GWB-5RDUP) and 614354001 (KRA-GWB-5R) were tinted yellow.

Miscellaneous Information

Additional Comments

The matrix spike, 1205346276 (KRA-GWB-5RMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 28, 2023

Page 1 of 2

Client : Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 614354

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2398739								
QC1205346215	614354001 DUP								
Radium-228	U	1.33	3.72	pCi/L	94.5		(0% - 100%)	JE1	03/21/23 11:01
	Uncert:	+/-0.933	+/-1.35						
	TPU:	+/-0.992	+/-1.65						
QC1205346216	LCS								
Radium-228	62.6		54.4	pCi/L		86.8	(75%-125%)	JE1	03/21/23 11:01
	Uncert:		+/-3.68						
	TPU:		+/-14.3						
QC1205346214	MB								
Radium-228			2.43	pCi/L				JE1	03/21/23 11:01
	Uncert:		+/-1.05						
	TPU:		+/-1.22						
Rad Ra-226									
Batch	2398771								
QC1205346275	614354001 DUP								
Radium-226		1.95	1.73	pCi/L	11.8		(0% - 100%)	LXP1	03/27/23 09:15
	Uncert:	+/-0.766	+/-0.732						
	TPU:	+/-0.819	+/-0.806						
QC1205346277	LCS								
Radium-226	26.6		23.0	pCi/L		86.6	(75%-125%)	LXP1	03/27/23 09:31
	Uncert:		+/-2.40						
	TPU:		+/-6.05						
QC1205346274	MB								
Radium-226			U 0.338	pCi/L				LXP1	03/27/23 09:15
	Uncert:		+/-0.375						
	TPU:		+/-0.378						
QC1205346276	614354001 MS								
Radium-226	131	1.95	120	pCi/L		90	(75%-125%)	LXP1	03/27/23 09:15
	Uncert:	+/-0.766	+/-12.7						
	TPU:	+/-0.819	+/-22.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 614354

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI	Gamma Spectroscopy--Uncertain identification									
BD	Results are either below the MDC or tracer recovery is low									
h	Preparation or preservation holding time was exceeded									
R	Sample results are rejected									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
N/A	RPD or %Recovery limits do not apply.									
ND	Analyte concentration is not detected above the detection limit									
M	M if above MDC and less than LLD									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
FA	Failed analysis.									
UJ	Gamma Spectroscopy--Uncertain identification									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
N1	See case narrative									
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.									
**	Analyte is a Tracer compound									
M	REMP Result > MDC/CL and < RDL									
J	See case narrative for an explanation									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A Schwab ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (U)	Field Filtered (U)	Sample Matrix (U)
KRA-GRL-FD-01	02/01/23	1410	G	N	WG
KRA-GRL-FB-01	02/01/23	1550	G	N	WQ
KRA-GRL-FB-02	02/01/23	1100	G	N	WQ
KRA-GRL-EB-04	02/02/23	1035	G	N	WQ
KRA-GRL-FD-02	02/02/23	1325	G	N	WG
KRA-GRL-FD-03	02/02/23	1310	G	N	WQ
KRA-GRL-EB-06	02/02/23				

Should this sample be considered:	Total number of containers	Sample Analysis Requested (U)	Preservative Type (U)	Comments
Yes, please supply isotopic info. (U)	6	EPA 6020, 6010, 7470 Metals *	N	field pH = NA
(7) Known or possible Hazards	6	EPA 6020, 6010, 7470 Dissolved Metals *	N	field pH = NA
	6	EPA 300, SM 2540C Cl, F, SO4, TDS	N	field pH = NA
	6	Radium 226 & 228 SW-846 9315, 9320	N	field pH = NA

Sample Analysis Requested (U) (Fill in the number of containers for each test)
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Sc,Ti,V,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (Signed) Date Time
 1. K. K. K. 02/03/23 0920
 2. M. M. M. 02/03/23 1130
 3. _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards: FL = Flammable/Ignitable, LW = Listed Waste, CO = Corrosive, RE = Reactive
 Listed Waste: (F, K, P and U-listed wastes.) Waste code(s): _____
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MIR = Misc. RCRA metals
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 1 of 4
 Project # 609397
 GEL Quote #: 603 AM 2/6
 COC Number (4): 609399
 PO Number: 609399
 Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Salathier ACC
 Phone # 404-506-7116
 Fax #
 Send Results To: SCS & ACC Contacts

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178
 GEL Work Order Number: 609399
 Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent
 Chemistry / Radiochemistry / Radiobiology / Speciality Analytics
 Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (6)	Field Filtered (6)	Sample Matrix (6)	Should this sample be considered:				Total number of containers	Comments Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
						Radioactive (if yes, please supply isotopic info)	(7) Known or possible Hazards	IN	IN		
KRA-GWA-7	01/31/23	1532	G	N	WG	N	N	N	8	✓	field pH = 6.02
KRA-GWA-7	01/31/23	1532	G	Y	WG	N	N	N	1	✓	field pH = 6.02 NA
KRA-GWA-8	01/31/23	1655	G	N	WG	N	N	N	8	✓	field pH = 4.60
KRA-GWB-6R	02/01/23	0920	G	N	WG	N	N	N	8	✓	field pH = 5.54
KRA-GWB-SR	02/01/23	1030	G	N	WG	N	N	N	8	✓	field pH = 5.81
KRA-GWC-9	02/01/23	1135	G	N	WG	N	N	N	8	✓	field pH = 4.57
KRA-GWC-20	02/01/23	1400	G	N	WG	N	N	N	8	✓	field pH = 6.01
KRA-GWC-17	02/01/23	1550	G	N	WG	N	N	N	8	✓	field pH = 4.74
KRA-GWC-16	02/01/23	1615	G	N	WG	N	N	N	8	✓	field pH = 6.23
KRA-GWC-11	02/01/23	1645	G	N	WG	N	N	N	8	✓	field pH = 4.71

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (signed) Date Time
 1 [Signature] 02/03/23 0920 [Signature] 02/03/23 0920
 2 [Signature] 02/03/23 1130 [Signature] 2-03-23 1130
 3
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sh,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,V,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other: _____

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
 4.) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s):
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 AS = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Sample Analysis Requested (5) (Fill in the number of containers for each test)
 Total number of containers: _____
 Should this sample be considered: _____
 (7) Known or possible Hazards: _____
 Yes, please supply isotopic info: _____
 Radiactive (if applicable): _____
 Metals: _____
 Dissolved Metals: _____
 EPA 6020, 6010, 7470: _____
 Radium 226 & 228 SW-846 9315, 9320: _____
 Preservative Type (6): _____

Sample ID	*Date Collected (mm-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Comments
KRA-GWC-12	02/01/23	1210	G	N	WG	field pH = 3.93
KRA-MW-23D	02/01/23	1540	G	N	WG	field pH = 6.16
KRA-GWC-13	02/01/23	1015	G	N	WG	field pH = 4.86
KRA-GWB-4R	02/02/23	1000	G	N	WG	field pH = 5.99
KRA-GWC-22	02/02/23	0949	G	N	WG	field pH = 4.63
KRA-GWC-1	02/02/23	1115	G	N	WG	field pH = 5.78
KRA-GWC-2	02/02/23	1201	G	N	WG	field pH = 4.60
KRA-GWC-14	02/02/23	1325	G	N	WG	field pH = 5.98
KRA-GWC-15	02/02/23	1435	G	N	WG	field pH = 6.65
KRA-GWC-21	02/02/23	1400	G	N	WG	field pH = 5.71

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time
<i>[Signature]</i>	02/03/23	0920
<i>[Signature]</i>	02/03/23	1130

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,Y,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Pb = Lead
Characteristic Hazards
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s): _____
Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Phone # 404-506-7116
 Fax # _____

Collected By: A. Schwab ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (0)	Field Filtered (0)	Sample Matrix (0)	Should this sample be considered:	Sample Analysis Requested (5)	Sample Analysis Requested (6)	Comments
KRA- MW-24D	02/02/23	1500	G	N	WG	(7) Known or (8) Possible Hazards	Metals * EPA 6020, 6010, 7470	NI	Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023SI
KRA- MW-25D	02/02/23	1305	G	N	WG	Radioactive (if isotopic info) Yes, please supply	Cl, F, SO4, TDS EPA 300, SM 2540C	NI	
KRA-									
KRA-									
KRA-									
KRA-									
KRA-									
KRA-									
KRA-									
KRA-									
KRA-									

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	02/02/23	0920	<u>[Signature]</u>	02/03/23	0920
<u>[Signature]</u>	02/03/23	1130	<u>[Signature]</u>	2-03-23	1130

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Y,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

- Chain of Custody Number = Client Determined
 - QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 - Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 - Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Lachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 - Sample Analysis Requested: Analytical method requested (i.e. 8200B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 - Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 - KNOWN OR POSSIBLE HAZARDS**

RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	Characteristic Hazards FL = Flammable/Ignitable CO = Corrosive RE = Reactive	Listed Waste LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s): _____	Other OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____
--	---	---	--
- Please provide any additional details below regarding handling and/or disposal concerns, (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

6009399

SAMPLE RECEIPT & REVIEW FORM

Client: CIPEC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2-3-23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: _____ *all temperatures are recorded in Celsius TEMP: <u>0</u> °
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 coc says none bottle says 15:00</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 coc says none bottle says 12:10

PM (or PMA) review: Initials AM Date 2/6/23 Page 1 of 1

List of current GEL Certifications as of 28 March 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

February 15, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 609366

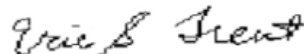
Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609366 GEL Work Order: 609366

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

** Analyte is a Tracer compound

J See case narrative for an explanation

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by

Erin L. Trent

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 15, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-CLIFTON-SEEP Project: GPCC00102
Sample ID: 609366001 Client ID: GPCC001
Matrix: WL
Collect Date: 02-FEB-23 15:32
Receive Date: 03-FEB-23
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		147	33.0	100	mg/L		100	TSM	02/09/23	1415	2380032	1
Field Data												
Client collected Field pH "As Received"												
Field pH		8.27			SU			EOS1	02/02/23	1532	2378171	2
GC-FID												
RSK 175 Modified Dissolved Gases "As Received"												
Methane		37.8	10.0	25.0	ug/L		1	RXC1	02/14/23	1232	2378876	3
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.277	0.0660	0.200	mg/L		2	HXC1	02/03/23	2015	2378483	4
Sulfate		6.71	0.266	0.800	mg/L		2					
Chloride		42.5	0.670	2.00	mg/L		10	HXC1	02/04/23	0428	2378483	5
Nitrate-N	U	ND	0.330	1.00	mg/L		10					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/07/23	1210	2378878	6
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		13.8	0.0965	0.250	mg/L	1.00	5	SKJ	02/10/23	1356	2378625	7
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Calcium		57.8	0.400	1.00	mg/L	1.00	5					
Chromium	J	0.0236	0.0150	0.0500	mg/L	1.00	5					
Cobalt	J	0.00264	0.00150	0.00500	mg/L	1.00	5					
Iron		13.0	0.165	0.500	mg/L	1.00	5					
Lithium		0.0699	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.144	0.00500	0.0250	mg/L	1.00	5					
Potassium		60.2	0.400	1.50	mg/L	1.00	5					
Vanadium	J	0.0287	0.0165	0.100	mg/L	1.00	5					
Sodium		280	0.800	2.50	mg/L	1.00	10	SKJ	02/10/23	1341	2378625	8
Antimony		0.00532	0.00100	0.00300	mg/L	1.00	1	SKJ	02/09/23	2339	2378625	9
Barium		0.527	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000346	0.000300	0.00100	mg/L	1.00	1					
Lead		0.0902	0.000500	0.00200	mg/L	1.00	1					

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Certificate of Analysis

Report Date: February 15, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-CLIFTON-SEEP Project: GPCC00102
Sample ID: 609366001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Molybdenum		0.00384	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		9.12	0.520	1.50	mg/L	1.00	100	SKJ	02/10/23	1130	2378625	10
Magnesium		25.1	0.0500	0.150	mg/L	1.00	5	SKJ	02/10/23	1442	2378625	11
Arsenic		0.0173	0.00200	0.00500	mg/L	1.00	1	SKJ	02/10/23	1148	2378625	12
Selenium	J	0.00167	0.00150	0.00500	mg/L	1.00	1					
Zinc		0.564	0.00330	0.0200	mg/L	1.00	1					
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "As Received"												
Nitrogen, Ammonia		1.49	0.0170	0.0500	mg/L	1.00	1	AXH3	02/08/23	0746	2378822	13
EPA 351.2, Nitrogen, Total Kjeldahl (TKN) "As Received"												
Nitrogen, Total Kjeldahl		222	3.30	10.0	mg/L	1.00	100	KLP1	02/13/23	1350	2382832	14
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1030	4.76	20.0	mg/L			CH6	02/06/23	1330	2379292	15
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	HH2	02/06/23	1952	2379521	16
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		722	3.63	10.0	mg/L			EK1	02/13/23	1403	2382679	17
Bicarbonate alkalinity (CaCO3)		722	3.63	10.0	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	3.63	10.0	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	AXH3	02/13/23	0915	2382831
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	02/06/23	1118	2378875
SW846 3005A	ICP-MS 3005A PREP	LG2	02/06/23	0840	2378624
EPA 350.1 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	02/07/23	1401	2378821

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Certificate of Analysis

Report Date: February 15, 2023

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-CLIFTON-SEEP Project: GPCC00102
Sample ID: 609366001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	SM 4500-H B/SW846 9040C, SM 2550B	
3	SOP RSK 175 Modified	
4	EPA 300.0	
5	EPA 300.0	
6	SW846 7470A	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	EPA 350.1	
14	EPA 351.2	
15	SM 2540C	
16	SM 4500-S (2-) D	
17	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit
MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

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QC Summary

Report Date: February 15, 2023

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Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 609366

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis											
Batch	2380032										
QC1205314076	609276003	DUP									
Total Organic Carbon Average	J	0.335	J	0.338	mg/L	0.892	^	(+/-1.00)	TSM	02/09/23	15:53
QC1205314075	LCS										
Total Organic Carbon Average	10.0			10.0	mg/L			(80%-120%)		02/09/23	09:45
QC1205314074	MB										
Total Organic Carbon Average			U	ND	mg/L					02/09/23	09:35
QC1205314077	609276003	PS									
Total Organic Carbon Average	10.0	J	0.335	9.73	mg/L			94 (65%-120%)		02/09/23	16:32
GC-FID											
Batch	2378876										
QC1205312139	609366001	DUP									
Methane		37.8		44.9	ug/L	17	^	(+/-25.0)	RXC1	02/14/23	12:42
QC1205312138	LCS										
Methane	100			100	ug/L			100 (72%-129%)		02/14/23	11:52
QC1205312137	MB										
Methane			U	ND	ug/L					02/14/23	11:42
Ion Chromatography											
Batch	2378483										
QC1205311544	609424012	DUP									
Chloride		4.10		4.09	mg/L	0.139		(0%-20%)	HXC1	02/04/23	01:23
Fluoride		0.134		0.136	mg/L	1.33	^	(+/-0.100)			

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2378483										
Nitrate-N		0.127		0.123	mg/L	3.03	^	(+/-0.100)	HXC1	02/04/23	01:23
Sulfate		0.529		0.529	mg/L	0.0945	^	(+/-0.400)			
QC1205311541	LCS										
Chloride	5.00			4.80	mg/L			96 (90%-110%)		02/03/23	18:11
Fluoride	2.50			2.67	mg/L			107 (90%-110%)			
Nitrate-N	2.50			2.41	mg/L			96.2 (90%-110%)			
Sulfate	10.0			9.92	mg/L			99.2 (90%-110%)			
QC1205311540	MB										
Chloride			U	ND	mg/L					02/03/23	17:41
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205311545	609424012 PS										
Chloride	5.00	4.10		9.42	mg/L			106 (90%-110%)		02/04/23	01:54
Fluoride	2.50	0.134		2.80	mg/L			106 (90%-110%)			
Nitrate-N	2.50	0.127		2.50	mg/L			95 (90%-110%)			
Sulfate	10.0	0.529		10.4	mg/L			98.9 (90%-110%)			

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
QC1205311658	LCS										
Aluminum	2.00			2.04	mg/L		102	(80%-120%)	SKJ	02/10/23	13:39
Antimony	0.0500			0.0498	mg/L		99.6	(80%-120%)		02/09/23	23:35
Arsenic	0.0500			0.0526	mg/L		105	(80%-120%)		02/10/23	11:27
Barium	0.0500			0.0508	mg/L		102	(80%-120%)		02/09/23	23:35
Beryllium	0.0500			0.0573	mg/L		115	(80%-120%)		02/10/23	13:39
Boron	0.100			0.111	mg/L		111	(80%-120%)		02/10/23	11:27
Cadmium	0.0500			0.0520	mg/L		104	(80%-120%)		02/09/23	23:35
Calcium	2.00			2.20	mg/L		110	(80%-120%)		02/10/23	13:39
Chromium	0.0500			0.0518	mg/L		104	(80%-120%)			
Cobalt	0.0500			0.0522	mg/L		104	(80%-120%)			
Iron	2.00			2.06	mg/L		103	(80%-120%)			
Lead	0.0500			0.0512	mg/L		102	(80%-120%)		02/09/23	23:35
Lithium	0.0500			0.0550	mg/L		110	(80%-120%)		02/10/23	13:39
Magnesium	2.00			2.20	mg/L		110	(80%-120%)		02/10/23	14:39
Manganese	0.0500			0.0516	mg/L		103	(80%-120%)		02/10/23	13:39

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Molybdenum	0.0500			0.0527	mg/L		105	(80%-120%)	SKJ	02/09/23	23:35
Potassium	2.00			2.12	mg/L		106	(80%-120%)		02/10/23	13:39
Selenium	0.0500			0.0528	mg/L		106	(80%-120%)		02/10/23	11:27
Sodium	2.00			2.16	mg/L		108	(80%-120%)		02/10/23	13:39
Thallium	0.0500			0.0509	mg/L		102	(80%-120%)		02/09/23	23:35
Vanadium	0.0500			0.0525	mg/L		105	(80%-120%)		02/10/23	13:39
Zinc	0.0500			0.0521	mg/L		104	(80%-120%)		02/10/23	11:27
QC1205311657	MB										
Aluminum			U	ND	mg/L					02/10/23	13:36
Antimony			U	ND	mg/L					02/09/23	23:31
Arsenic			U	ND	mg/L					02/10/23	11:24
Barium			U	ND	mg/L					02/09/23	23:31
Beryllium			U	ND	mg/L					02/10/23	13:36
Boron			U	ND	mg/L					02/10/23	11:24
Cadmium			U	ND	mg/L					02/09/23	23:31
Calcium			U	ND	mg/L					02/10/23	13:36

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Chromium			U	ND	mg/L				SKJ	02/10/23	13:36
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L					02/09/23	23:31
Lithium			U	ND	mg/L					02/10/23	13:36
Magnesium			U	ND	mg/L					02/10/23	14:41
Manganese			U	ND	mg/L					02/10/23	13:36
Molybdenum			U	ND	mg/L					02/09/23	23:31
Potassium			U	ND	mg/L					02/10/23	13:36
Selenium			U	ND	mg/L					02/10/23	11:24
Sodium			U	ND	mg/L					02/10/23	13:36
Thallium			U	ND	mg/L					02/09/23	23:31
Vanadium			U	ND	mg/L					02/10/23	13:36
Zinc			U	ND	mg/L					02/10/23	11:24
QC1205311659 609366001 MS											
Aluminum	2.00	13.8		19.9	mg/L		N/A	(75%-125%)		02/10/23	13:59

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Antimony	0.0500	0.00532		0.0470	mg/L		83.4	(75%-125%)	SKJ	02/09/23	23:42
Arsenic	0.0500	0.0173		0.0670	mg/L		99.5	(75%-125%)		02/10/23	11:51
Barium	0.0500	0.527		0.600	mg/L		N/A	(75%-125%)		02/09/23	23:42
Beryllium	0.0500	U	ND	0.0498	mg/L		99.1	(75%-125%)		02/10/23	13:59
Boron	0.100	9.12		9.01	mg/L		N/A	(75%-125%)		02/10/23	11:33
Cadmium	0.0500	J	0.000346	0.0470	mg/L		93.2	(75%-125%)		02/09/23	23:42
Calcium	2.00	57.8		58.5	mg/L		N/A	(75%-125%)		02/10/23	13:59
Chromium	0.0500	J	0.0236	0.0734	mg/L		99.8	(75%-125%)			
Cobalt	0.0500	J	0.00264	0.0502	mg/L		95.2	(75%-125%)			
Iron	2.00	13.0		15.6	mg/L		N/A	(75%-125%)			
Lead	0.0500	0.0902		0.141	mg/L		101	(75%-125%)		02/09/23	23:42
Lithium	0.0500	0.0699		0.121	mg/L		102	(75%-125%)		02/10/23	13:59
Magnesium	2.00	25.1		26.4	mg/L		N/A	(75%-125%)		02/10/23	14:44
Manganese	0.0500	0.144		0.190	mg/L		92.3	(75%-125%)		02/10/23	13:59
Molybdenum	0.0500	0.00384		0.0577	mg/L		108	(75%-125%)		02/09/23	23:42

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Potassium	2.00	60.2		60.3	mg/L		N/A	(75%-125%)	SKJ	02/10/23	13:59
Selenium	0.0500	J	0.00167	0.0504	mg/L		97.4	(75%-125%)		02/10/23	11:51
Sodium	2.00	280		281	mg/L		N/A	(75%-125%)		02/10/23	13:44
Thallium	0.0500	U	ND	0.0494	mg/L		98.4	(75%-125%)		02/09/23	23:42
Vanadium	0.0500	J	0.0287	0.0790	mg/L		101	(75%-125%)		02/10/23	13:59
Zinc	0.0500	0.564		0.605	mg/L		N/A	(75%-125%)		02/10/23	11:51
QC1205311660	609366001	MSD									
Aluminum	2.00	13.8		20.5	mg/L	3.07	N/A	(0%-20%)		02/10/23	14:01
Antimony	0.0500	0.00532		0.0466	mg/L	0.936	82.5	(0%-20%)		02/09/23	23:46
Arsenic	0.0500	0.0173		0.0678	mg/L	1.05	101	(0%-20%)		02/10/23	11:54
Barium	0.0500	0.527		0.594	mg/L	1.01	N/A	(0%-20%)		02/09/23	23:46
Beryllium	0.0500	U	ND	0.0528	mg/L	5.81	105	(0%-20%)		02/10/23	14:01
Boron	0.100	9.12		8.92	mg/L	1.02	N/A	(0%-20%)		02/10/23	11:36
Cadmium	0.0500	J	0.000346	0.0466	mg/L	0.759	92.5	(0%-20%)		02/09/23	23:46
Calcium	2.00	57.8		61.5	mg/L	5.06	N/A	(0%-20%)		02/10/23	14:01
Chromium	0.0500	J	0.0236	0.0768	mg/L	4.43	106	(0%-20%)			

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Cobalt	0.0500	J	0.00264	0.0524	mg/L	4.18	99.5	(0%-20%)	SKJ	02/10/23	14:01
Iron	2.00		13.0	16.2	mg/L	3.49	N/A	(0%-20%)			
Lead	0.0500		0.0902	0.139	mg/L	1.09	97.8	(0%-20%)		02/09/23	23:46
Lithium	0.0500		0.0699	0.128	mg/L	5.31	115	(0%-20%)		02/10/23	14:01
Magnesium	2.00		25.1	27.0	mg/L	2.52	N/A	(0%-20%)		02/10/23	14:46
Manganese	0.0500		0.144	0.198	mg/L	4.06	108	(0%-20%)		02/10/23	14:01
Molybdenum	0.0500		0.00384	0.0589	mg/L	2.1	110	(0%-20%)		02/09/23	23:46
Potassium	2.00		60.2	63.7	mg/L	5.54	N/A	(0%-20%)		02/10/23	14:01
Selenium	0.0500	J	0.00167	0.0503	mg/L	0.167	97.2	(0%-20%)		02/10/23	11:54
Sodium	2.00		280	279	mg/L	0.824	N/A	(0%-20%)		02/10/23	13:46
Thallium	0.0500	U	ND	0.0490	mg/L	0.752	97.7	(0%-20%)		02/09/23	23:46
Vanadium	0.0500	J	0.0287	0.0833	mg/L	5.33	109	(0%-20%)		02/10/23	14:01
Zinc	0.0500		0.564	0.602	mg/L	0.502	N/A	(0%-20%)		02/10/23	11:54
Aluminum	QC1205311661	609366001	SDILT	2760	566	ug/L	2.35	(0%-20%)		02/10/23	14:06
Antimony			5.32	J	1.13	ug/L	6.22	(0%-20%)		02/09/23	23:53

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Arsenic		17.3		5.09	ug/L	47.2		(0%-20%)	SKJ	02/10/23	12:04
Barium		527		105	ug/L	.158		(0%-20%)		02/09/23	23:53
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/10/23	14:06
Boron		91.2		21.5	ug/L	18.1		(0%-20%)		02/10/23	11:39
Cadmium	J	0.346	U	ND	ug/L	N/A		(0%-20%)		02/09/23	23:53
Calcium		11600		2320	ug/L	.344		(0%-20%)		02/10/23	14:06
Chromium	J	4.71	U	ND	ug/L	N/A		(0%-20%)			
Cobalt	J	0.527	U	ND	ug/L	N/A		(0%-20%)			
Iron		2600		527	ug/L	1.18		(0%-20%)			
Lead		90.2		18.0	ug/L	.379		(0%-20%)		02/09/23	23:53
Lithium		14.0	U	ND	ug/L	N/A		(0%-20%)		02/10/23	14:06
Magnesium		5020		1020	ug/L	1.76		(0%-20%)		02/10/23	14:50
Manganese		28.9		5.97	ug/L	3.38		(0%-20%)		02/10/23	14:06
Molybdenum		3.84	J	0.743	ug/L	3.36		(0%-20%)		02/09/23	23:53
Potassium		12000		2380	ug/L	1.09		(0%-20%)		02/10/23	14:06

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2378625										
Selenium	J	1.67	U	ND	ug/L	N/A		(0%-20%)	SKJ	02/10/23	12:04
Sodium		28000		5580	ug/L	.479		(0%-20%)		02/10/23	13:49
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/09/23	23:53
Vanadium	J	5.74	U	ND	ug/L	N/A		(0%-20%)		02/10/23	14:06
Zinc		564		115	ug/L	2.25		(0%-20%)		02/10/23	12:04
Metals Analysis-Mercury											
Batch	2378878										
QC1205312143	609438010	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/07/23	12:21
QC1205312142	LCS										
Mercury	0.00200			0.00209	mg/L		105	(80%-120%)		02/07/23	12:01
QC1205312141	MB										
Mercury			U	ND	mg/L					02/07/23	12:00
QC1205312144	609438010	MS									
Mercury	0.00200	U	ND	0.00200	mg/L		100	(75%-125%)		02/07/23	12:22
QC1205312145	609438010	SDILT									
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/07/23	12:24
Nutrient Analysis											
Batch	2378822										
QC1205311998	609342003	DUP									
Nitrogen, Ammonia		24.1		17.0	mg/L	34.6*		(0%-20%)	AXH3	02/08/23	07:57

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Nutrient Analysis											
Batch 2378822											
QC1205311997	LCS										
Nitrogen, Ammonia	1.00			0.953	mg/L		95.3	(90%-110%)	AXH3	02/08/23	07:26
QC1205311996	MB										
Nitrogen, Ammonia			U	ND	mg/L					02/08/23	07:25
QC1205311999	609342003	MS									
Nitrogen, Ammonia	5.00	24.1		20.2	mg/L		N/A	(90%-110%)		02/08/23	07:58
Batch 2382832											
QC1205318806	610273001	DUP									
Nitrogen, Total Kjeldahl	J	0.0785	U	ND	mg/L	200	^		KLP1	02/13/23	14:35
QC1205318803	LCS										
Nitrogen, Total Kjeldahl	1.00			1.07	mg/L		107	(90%-110%)		02/13/23	14:28
QC1205318802	MB										
Nitrogen, Total Kjeldahl			U	ND	mg/L					02/13/23	12:26
QC1205318807	610273001	MS									
Nitrogen, Total Kjeldahl	1.00	J	0.0785	1.08	mg/L		100	(90%-110%)		02/13/23	14:36
Solids Analysis											
Batch 2379292											
QC1205312857	609447001	DUP									
Total Dissolved Solids		2360		2460	mg/L	4.36		(0%-5%)	CH6	02/06/23	13:30
QC1205312855	LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		02/06/23	13:30
QC1205312854	MB										
Total Dissolved Solids			U	ND	mg/L					02/06/23	13:30

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QC Summary

Workorder: 609366

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Spectrometric Analysis											
Batch	2379521										
QC1205313136		LCS									
Total Sulfide	0.400			0.401	mg/L		100	(85%-115%)	HH2	02/06/23	19:38
QC1205313135		MB									
Total Sulfide			U	ND	mg/L					02/06/23	19:36
QC1205313139		609276004	PS								
Total Sulfide	0.400	U	ND	0.354	mg/L		88.1	(75%-125%)		02/06/23	19:43
QC1205313140		609276004	PSD								
Total Sulfide	0.400	U	ND	0.358	mg/L	1	89	(0%-15%)		02/06/23	19:43
Titration and Ion Analysis											
Batch	2382679										
QC1205318663		609366001	DUP								
Alkalinity, Total as CaCO3			722	722	mg/L	0.0693		(0%-20%)	EK1	02/13/23	14:17
Bicarbonate alkalinity (CaCO3)			722	722	mg/L	0.0693		(0%-20%)			
Carbonate alkalinity (CaCO3)		U	ND	U	ND	mg/L	N/A				
QC1205318662		LCS									
Alkalinity, Total as CaCO3	100			104	mg/L		104	(90%-110%)		02/13/23	13:59
QC1205318664		609366001	MS								
Alkalinity, Total as CaCO3	250		722	984	mg/L		105	(80%-120%)		02/13/23	14:20

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- C Analyte has been confirmed by GC/MS analysis
- B The target analyte was detected in the associated blank.

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QC Summary

Workorder: 609366

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative
Georgia Power Company
SDG #: 609366**

FID Flame Ionization Detector

Product: Dissolved Gases in Water by Flame Ionization Detector (FID)

Analytical Method: SOP RSK 175 Modified

Analytical Procedure: GL-OA-E-064 REV# 6

Analytical Batch: 2378876

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205312137	Method Blank (MB)
1205312138	Laboratory Control Sample (LCS)
1205312139	609366001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2378625

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 14

Preparation Batch: 2378624

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205311657	Method Blank (MB)ICP-MS
1205311658	Laboratory Control Sample (LCS)
1205311661	609366001(KRA-CLIFTON-SEEPL) Serial Dilution (SD)
1205311659	609366001(KRA-CLIFTON-SEEPS) Matrix Spike (MS)
1205311660	609366001(KRA-CLIFTON-SEEPSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020A/6020B met the advisory control limits with the exception of calcium. Client sample concentrations were greater than two times the CRDL; therefore the data were not adversely affected. 609366001 (KRA-CLIFTON-SEEP).

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 609366001 (KRA-CLIFTON-SEEP) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument. Per the SOP, sample 609366001 (KRA-CLIFTON-SEEP) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	609366
	001
Aluminum	5X
Beryllium	5X
Boron	100X
Calcium	5X
Chromium	5X
Cobalt	5X
Iron	5X
Lithium	5X
Magnesium	5X
Manganese	5X
Potassium	5X
Sodium	10X
Vanadium	5X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 39

Analytical Batch: 2378878

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 39

Preparation Batch: 2378875

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205312141	Method Blank (MB)CVAA
1205312142	Laboratory Control Sample (LCS)
1205312145	609438010(NonSDGL) Serial Dilution (SD)
1205312143	609438010(NonSDGD) Sample Duplicate (DUP)
1205312144	609438010(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: Carbon, Total Organic

Analytical Method: SM 5310 B

Analytical Procedure: GL-GC-E-093 REV# 21

Analytical Batch: 2380032

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205314074	Method Blank (MB)
1205314075	Laboratory Control Sample (LCS)
1205314076	609276003(NonSDG) Sample Duplicate (DUP)
1205314077	609276003(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following sample 609366001 (KRA-CLIFTON-SEEP) was diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609366
	001
Total Organic Carbon Average	100X

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2378483

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205311540	Method Blank (MB)
1205311541	Laboratory Control Sample (LCS)
1205311544	609424012(NonSDG) Sample Duplicate (DUP)
1205311545	609424012(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following sample 609366001 (KRA-CLIFTON-SEEP) was diluted because target analyte concentrations exceeded the calibration range. Sample 609366001 (KRA-CLIFTON-SEEP) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609366
	001
Chloride	10X
Fluoride	2X
Nitrate-N	10X
Sulfate	2X

Miscellaneous Information

Manual Integrations

Sample 609366001 (KRA-CLIFTON-SEEP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ammonia Nitrogen

Analytical Method: EPA 350.1

Analytical Procedure: GL-GC-E-106 REV# 10

Analytical Batch: 2378822

Preparation Method: EPA 350.1 Prep

Preparation Procedure: GL-GC-E-072 REV# 18

Preparation Batch: 2378821

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205311996	Method Blank (MB)
1205311997	Laboratory Control Sample (LCS)
1205311998	609342003(NonSDG) Sample Duplicate (DUP)
1205311999	609342003(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Nitrogen, Ammonia	1205311998 (Non SDG 609342003DUP)	34.6* (0%-20%)

Technical Information

Sample Dilutions

The following samples 1205311998 (Non SDG 609342003DUP) and 1205311999 (Non SDG 609342003MS) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205311998 (Non SDG 609342003DUP) and 1205311999 (Non SDG 609342003MS) were diluted at the prep step due to high concentration. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: Total Kjeldahl Nitrogen

Analytical Method: EPA 351.2

Analytical Procedure: GL-GC-E-104 REV# 15

Analytical Batch: 2382832

Preparation Method: EPA 351.2 Prep

Preparation Procedure: GL-GC-E-071 REV# 18

Preparation Batch: 2382831

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205318802	Method Blank (MB)
1205318803	Laboratory Control Sample (LCS)
1205318806	610273001(NonSDG) Sample Duplicate (DUP)
1205318807	610273001(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following sample 609366001 (KRA-CLIFTON-SEEP) was diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	609366
	001
Nitrogen, Total Kjeldahl	100X

Sample Re-analysis

Sample 1205318803 (LCS) was re-analyzed due to instrument failure. The results from the reanalysis are reported. Samples 1205318803 (LCS) and 1205318806 (Non SDG 610273001DUP) were re-analyzed due to CCV failure. The reanalysis data with passing instrument QC was reported.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 20

Analytical Batch: 2379292

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205312854	Method Blank (MB)
1205312855	Laboratory Control Sample (LCS)
1205312857	609447001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

Sample filtration took > 10 minutes; therefore as prescribed in the method, a reduced aliquot was used. 1205312857 (Non SDG 609447001DUP) and 609366001 (KRA-CLIFTON-SEEP).

Product: Sulfide, Total

Analytical Method: SM 4500-S (2-) D

Analytical Procedure: GL-GC-E-052 REV# 12

Analytical Batch: 2379521

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205313135	Method Blank (MB)
1205313136	Laboratory Control Sample (LCS)
1205313139	609276004(NonSDG) Post Spike (PS)
1205313140	609276004(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Alkalinity

Analytical Method: SM 2320B

Analytical Procedure: GL-GC-E-033 REV# 14

Analytical Batch: 2382679

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609366001	KRA-CLIFTON-SEEP
1205318662	Laboratory Control Sample (LCS)
1205318663	609366001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205318664	609366001(KRA-CLIFTON-SEEP) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and

procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

smaller aliquots used due to sample concentration 1205318663 (KRA-CLIFTON-SEEPDUP), 1205318664 (KRA-CLIFTON-SEEPMS) and 609366001 (KRA-CLIFTON-SEEP).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

604 366
609 368
GEL
 Laboratory LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Project Manager: Erin Trent

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Clifton Seep
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Skinkler ACC
 Phone # 404-506-7116
 Fax # _____
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (7) Known or possible Hazards (8) isotopic supply (9) please supply	Radioactive (If isotopic info.)	Total number of containers	SA	Comments
KRA-CLIFTON-SEEP	02/02/23	1532	G	N	WL	N	N	CL, F, SO4, TDS EPA 300, SM 2540C Metals * EPA 6020, 6010, 7470 Radium 226 & 228 SW-846 9315, 9320 Nitrate EPA 300 Total, Carb. & Bicarb Alk - SM 2320B NH3, TKN EPA 350.1, 351.2 TOC SM 5310B Dissolved Methane RSK 175 Sulfide SM 4500	<- Preservative Type (6)	
										Note: extra sample is required for sample specific QC Task Code: KRA-CCR-ASSMT-2023S1 field pH = 8.27

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (signed) Date Time
 1. [Signature] 02/03/23 0920 1. [Signature] 02/03/23 0920
 2. [Signature] 02/03/23 1130 2. [Signature] 2-03-23 1130
 3. _____
 TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, V, Zn, Hg, Fe, Mn, K, Na, Al
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD-Drinking Water, WG-Groundwater, WS-Surface Water, WW-Waste Water, WL-Leachate, SO-Soil, SE-Sediment, SL-Sludge, WQ-Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes), Waste code(s): _____
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals, Pb = Lead
 TSCA Regulated: PCB = Polychlorinated biphenyls

SAMPLE RECEIPT & REVIEW FORM

Client: CRPCC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2.3.23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Did the client designate samples are hazardous? Yes No COC notation or hazard labels on containers equal client designation.

E) Did the RSO identify possible hazards? Yes No If D or E is yes, select Hazards below.
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>0</u> °
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 COC says none bottle says 15:00</u>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 COC says none bottle says 12:10

List of current GEL Certifications as of 15 February 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



March 08, 2023

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 609368

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Anna Johnson for
Erin Trent
Project Manager

Purchase Order: GPC82177-0004
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

GPCC001 Georgia Power Company

Client SDG: 609368 GEL Work Order: 609368

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Erin Trent.

Reviewed by _____

Cinna Johnson

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: March 8, 2023

Contact: Kristen Jurinko
 Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-CLIFTON-SEEP
 Sample ID: 609368001
 Matrix: WL
 Collect Date: 02-FEB-23
 Receive Date: 03-FEB-23
 Collector: Client

Project: GPCC00102
 Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.89	+/-1.80	2.76	+/-1.94	3.00	pCi/L			JE1	03/07/23	1309	2378777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.58	+/-1.85	2.76	+/-1.99		pCi/L		1	NXL1	03/08/23	0930	2378776	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.689	+/-0.427	0.513	+/-0.446	1.00	pCi/L			LXP1	03/05/23	0822	2378762	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2378777	57.2	(15%-125%)

Notes:
 The MDC is a sample specific MDC.
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 609368**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2378776

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609368001	KRA-CLIFTON-SEEP

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2378777

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609368001	KRA-CLIFTON-SEEP
1205311817	Method Blank (MB)
1205311818	609368001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205311819	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts

Samples were re-eluted and recounted to verify sample results. The recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2378762

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
609368001	KRA-CLIFTON-SEEP
1205311793	Method Blank (MB)
1205311794	609368001(KRA-CLIFTON-SEEP) Sample Duplicate (DUP)
1205311795	609368001(KRA-CLIFTON-SEEP) Matrix Spike (MS)
1205311796	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 8, 2023
Page 1 of 2

Client : Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: Kristen Jurinko

Workorder: 609368

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2378777								
QC1205311818	609368001 DUP								
Radium-228		2.89	U	1.27	pCi/L	78.2	(0% - 100%)	JE1	03/07/23 13:09
	Uncert:	+/-1.80		+/-0.956					
	TPU:	+/-1.94		+/-1.01					
QC1205311819	LCS								
Radium-228	63.1			67.0	pCi/L	106	(75%-125%)	JE1	03/07/23 13:09
	Uncert:			+/-4.20					
	TPU:			+/-17.5					
QC1205311817	MB								
Radium-228			U	1.00	pCi/L			JE1	03/07/23 13:09
	Uncert:			+/-1.08					
	TPU:			+/-1.11					
Rad Ra-226									
Batch	2378762								
QC1205311794	609368001 DUP								
Radium-226		0.689		0.778	pCi/L	12.1	(0% - 100%)	LXP1	03/05/23 09:29
	Uncert:	+/-0.427		+/-0.461					
	TPU:	+/-0.446		+/-0.479					
QC1205311796	LCS								
Radium-226	25.0			23.0	pCi/L	92.2	(75%-125%)	LXP1	03/05/23 09:29
	Uncert:			+/-1.99					
	TPU:			+/-5.09					
QC1205311793	MB								
Radium-226			U	0.443	pCi/L			LXP1	03/05/23 09:29
	Uncert:			+/-0.416					
	TPU:			+/-0.421					
QC1205311795	609368001 MS								
Radium-226	25.0	0.689		21.9	pCi/L	85.1	(75%-125%)	LXP1	03/05/23 09:29
	Uncert:	+/-0.427		+/-2.19					
	TPU:	+/-0.446		+/-4.25					

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 609368

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: _____ of _____
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radioassay | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Erin Trent
 Phone # 404-506-7116
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Clifton Seep
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Smith ACC
 Send Results To: SCS & ACC Contacts

Sample ID: _____
 * For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	OC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radiactive (If yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	Should this sample be considered:	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
KRA-CLIFTON-SEEP	02/02/23	1532	G	N	WL	N		1	N	SA	<-- Preservative Type (6)	Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2023SI field pH = 8.27

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	02/03/23	0920	<u>[Signature]</u>	02/03/23	0920
<u>[Signature]</u>	02/03/23	1130	<u>[Signature]</u>	02/03/23	1150

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,TH,Y,Zn,Hg,Fe,Mn,K,Na,Al
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 0 °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: WD=Drinking Water, WC=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

KNOWN OR POSSIBLE HAZARDS	Characteristic Hazards	Listed Waste	Other
RCRA Metals As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive TSCA Regulated PCB = Polychlorinated biphenyls	LW = Listed Waste (F,K,P and U-listed wastes) Waste code(s): _____	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: CRPEC SDG/AR/COC/Work Order: 609397 / 609366 / 609368

Received By: MLS Date Received: 2-3-23

Carrier and Tracking Number

Circle Applicable:
 FedEx Express FedEx Ground UPS Field Services Courier Other

Client drop off

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <u>CPM</u> mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>0°</u>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>FD-03 COC says none bottle says 15:00</u>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
FD-01 COC says none bottle says 12:10

List of current GEL Certifications as of 08 March 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

APPENDIX A

*Laboratory Data Validations
January 2023 Monitoring Event*

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road

Annual Event

January 2023

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – January 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical results submitted by GEL Laboratories LLC, Charleston for groundwater samples collected at Grumman Road between January 31, 2023 and February 2, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

SDG 613115 was provided to correct errant antimony data following reanalysis of sample KRA-GWC-17 originally reported as 609397007.

SDG 614354 was provided to correct errant radium data following reanalysis of samples KRA-GWB-5R, KRA-GWC-9, KRA-GWC-11, and KRA-GWC-21 originally reported as 609399004, 609399005, 609399009, and 609399019, respectively.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV as well as major ion constituents. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Alkalinity in Water (Standard Methods 2320B), Radium-226 (USEPA Method 903.1 Modified), and Radium-228 (USEPA Method 904.0 Modified).

Data were reviewed in accordance with the USEPA Region 4 Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and

Grumman Road Private Industrial Landfill
2023 Annual Groundwater Monitoring and Corrective Action Report

blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, except for antimony on KRA-GWC-17 (609397007 and 613115001) and radium-228 on KRA-GWB-5R (614354001) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, except for sulfate on KRA-GWC-12 (609397010) and radium-226 on KRA-GWC-1 (609399015) and KRA-MW-24D (609399020) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met, except for chloride on KRA-MW-24D (609397020) and aluminum on KRA-GWA-7 (609397001) as described in the qualifications section below.
- Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- U:** The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample KRA-MW-24D (609397020) was qualified as estimated (J) for chloride as the laboratory post spike (PS) exceeded QC criteria (114% above range of 90-110).
- Sample KRA-GWA-7 (609397001) was qualified as estimated (J) for aluminum as the matrix spike (MS) and matrix spike duplicate (MSD) exceeded QC criteria (183% and 177%, respectively, above range of 75-125).
- Samples KRA-GWC-17 (original 609397007 and reanalysis 613115001) were qualified as estimated (J) for antimony as the laboratory relative percent difference (RPD) exceeded QC criteria (35.6% above limit of 20%). The sample was redigested and reanalyzed for antimony as requested per inconsistencies with historical data. The reanalysis batch included MS/MSD for which KRA-GWC-17 was spiked; precision and accuracy for the MS/MSD recoveries passed criteria. The antimony reanalysis data were used for reporting purposes.
- Sample KRA-GWB-5R (reanalysis 614354001) was qualified as estimated (J) for radium-228 as the laboratory RPD exceeded QC criteria (94.5% above limit of 20%). The sample was reanalyzed for radium-228 as requested per inconsistencies with historical data. The radium-228 reanalysis data were used for reporting purposes.
- Samples KRA-GWC-12 (609397010) and KRA-GRL-FD-01 (609397022) were qualified as estimated (J) for sulfate as the field RPD exceeded QC criteria (20.7% above limit of 20).
- Samples KRA-GWC-1 (609399015), KRA-GRL-FD-02 (609399-027), KRA-MW-24D (609399-020), and KRA-GRL-FD-03 (609399028) were qualified as estimated (J) for radium-226 as the field RPDs exceeded QC criteria (87.2% and 52.2%, respectively, above limit of 20).

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- Certain radium-228 results were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the sample result was below the RL, the minimum detectable concentration (MDC) was raised to the blank detection as part of the qualification process. When the sample result was above the RL, the sample result was qualified as estimated (J) as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between January 31, 2023 and February 2, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

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TABLE 1

Georgia Power Company – Grumman Road
 Sample Summary Table – January/February 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses				
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Alkalinity (SM 2320B)	Radium-226/-228 (903.1M, 904.0M)
609397	KRA-GWA-7	01/31/23	609397001	WG		X	X	X	X	
609399	KRA-GWA-7	01/31/23	609399001	WG						X
609397	KRA-GWA-8	01/31/23	609397002	WG		X	X	X	X	
609399	KRA-GWA-8	01/31/23	609399002	WG						X
609397	KRA-GWB-6R	02/01/23	609397003	WG		X	X	X	X	
609399	KRA-GWB-6R	02/01/23	609399003	WG						X
609397	KRA-GWB-5R	02/01/23	609397004	WG		X	X	X	X	
609399	KRA-GWB-5R	02/01/23	609399004	WG						X
609397	KRA-GWC-9	02/01/23	609397005	WG		X	X	X	X	
609399	KRA-GWC-9	02/01/23	609399005	WG						X
609397	KRA-GWC-20	02/01/23	609397006	WG		X	X	X	X	
609399	KRA-GWC-20	02/01/23	609399006	WG						X
609397	KRA-GWC-17	02/01/23	609397007	WG		X	X	X	X	
609399	KRA-GWC-17	02/01/23	609399007	WG						X
609397	KRA-GWC-16	02/01/23	609397008	WG		X	X	X	X	
609399	KRA-GWC-16	02/01/23	609399008	WG						X
609397	KRA-GWC-11	02/01/23	609397009	WG		X	X	X	X	
609399	KRA-GWC-11	02/01/23	609399009	WG						X
609397	KRA-GWC-12	02/01/23	609397010	WG		X	X	X	X	
609399	KRA-GWC-12	02/01/23	609399010	WG						X
609397	KRA-MW-23D	02/01/23	609397011	WG		X	X	X	X	
609399	KRA-MW-23D	02/01/23	609399011	WG						X
609397	KRA-GWC-13	02/01/23	609397012	WG		X	X	X	X	
609399	KRA-GWC-13	02/01/23	609399012	WG						X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

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TABLE 1 (continued)

Georgia Power Company – Grumman Road
Sample Summary Table – January/February 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses				
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Alkalinity (SM 2320B)	Radium-226/-228 (903.1M, 904.0M)
609397	KRA-GWB-4R	02/02/23	609397013	WG		X	X	X	X	
609399	KRA-GWB-4R	02/02/23	609399013	WG						X
609397	KRA-GWC-22	02/02/23	609397014	WG		X	X	X	X	
609399	KRA-GWC-22	02/02/23	609399014	WG						X
609397	KRA-GWC-1	02/02/23	609397015	WG		X	X	X	X	
609399	KRA-GWC-1	02/02/23	609399015	WG						X
609397	KRA-GWC-2	02/02/23	609397016	WG		X	X	X	X	
609399	KRA-GWC-2	02/02/23	609399016	WG						X
609397	KRA-GWC-14	02/02/23	609397017	WG		X	X	X	X	
609399	KRA-GWC-14	02/02/23	609399017	WG						X
609397	KRA-GWC-15	02/02/23	609397018	WG		X	X	X	X	
609399	KRA-GWC-15	02/02/23	609399018	WG						X
609397	KRA-GWC-21	02/02/23	609397019	WG		X	X	X	X	
609399	KRA-GWC-21	02/02/23	609399019	WG						X
609397	KRA-MW-24D	02/02/23	609397020	WG		X	X	X	X	
609399	KRA-MW-24D	02/02/23	609399020	WG						X
609397	KRA-MW-25D	02/02/23	609397021	WG		X	X	X	X	
609399	KRA-MW-25D	02/02/23	609399021	WG						X
609397	KRA-GRL-FD-01	02/01/23	609397022	WG	FD (KRA-GWC-12)	X	X	X	X	
609399	KRA-GRL-FD-01	02/01/23	609399022	WG	FD (KRA-GWC-12)					X
609397	KRA-GRL-FB-01	02/01/23	609397023	WQ	FB	X	X	X	X	
609399	KRA-GRL-FB-01	02/01/23	609399023	WQ	FB					X
609397	KRA-GRL-FB-02	02/01/23	609397024	WQ	FB	X	X	X	X	
609399	KRA-GRL-FB-02	02/01/23	609399024	WQ	FB					X
609397	KRA-GRL-EB-04	02/01/23	609397025	WQ	EB	X	X	X	X	
609399	KRA-GRL-EB-04	02/01/23	609399025	WQ	EB					X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
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 WQ – Water Quality Control

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TABLE 1 (continued)

Georgia Power Company – Grumman Road
 Sample Summary Table – January/February 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses				
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Alkalinity (SM 2320B)	Radium-226/-228 (903.1M, 904.0M)
609397	KRA-GRL-EB-05	02/02/23	609397026	WQ	EB	X	X	X	X	
609399	KRA-GRL-EB-05	02/02/23	609399026	WQ	EB					X
609397	KRA-GRL-FD-02	02/02/23	609397027	WG	FD (KRA-GWC-1)	X	X	X	X	
609399	KRA-GRL-FD-02	02/02/23	609399027	WG	FD (KRA-GWC-1)					X
609397	KRA-GRL-FD-03	02/02/23	609397028	WG	FD (KRA-MW-24D)	X	X	X	X	
609399	KRA-GRL-FD-03	02/02/23	609399028	WG	FD (KRA-MW-24D)					X
609397	KRA-GRL-FB-03	02/02/23	609397029	WQ	FB	X	X	X	X	
609399	KRA-GRL-FB-03	02/02/23	609399029	WQ	FB					X
609397	KRA-GRL-EB-06	02/02/23	609397030	WQ	EB	X	X	X	X	
609399	KRA-GRL-EB-06	02/02/23	609399030	WQ	EB					X
609397	KRA-GWA-7	01/31/23	609397031	WG		X				
613115	KRA-GWC-17	02/01/23	613115001	WG		X				
614354	KRA-GWB-5R	02/01/23	614354001	WG						X
614354	KRA-GWC-9	02/01/23	614354002	WG						X
614354	KRA-GWC-11	02/01/23	614354003	WG						X
614354	KRA-GWC-21	02/02/23	614354004	WG						X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
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TABLE 2

Georgia Power Company – Grumman Road
 Qualifier Summary Table – January/February 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
609397	KRA-GWC-17	Antimony			J	RPD exceeds lab goal
613115	KRA-GWC-17	Antimony			J	RPD exceeds lab goal
609397	KRA-GWC-12	Sulfate			J	RPD exceeds field goal
609397	KRA-GRL-FD-01	Sulfate			J	RPD exceeds field goal
609399	KRA-GWC-1	Radium-226			J	RPD exceeds field goal
609399	KRA-GRL-FD-02	Radium-226			J	RPD exceeds field goal
609399	KRA-MW-24D	Radium-226			J	RPD exceeds field goal
609399	KRA-GRL-FD-03	Radium-226			J	RPD exceeds field goal
614354	KRA-GWB-5R	Radium-228			J	RPD exceeds lab goal
614354	KRA-GWB-5R	Radium-228		2.43	U	Blank detection
614354	KRA-GWC-9	Radium-228			J	Blank detection
614354	KRA-GWC-11	Radium-228			J	Blank detection
614354	KRA-GWC-21	Radium-228		2.43	U	Blank detection
609397	KRA-MW-24D	Chloride			J	PS outside QC criteria
609397	KRA-GWA-7	Aluminum			J	MS/MSD outside QC criteria

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 PS – Post Spike
 QC – Quality Control
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 U – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road – Clifton Seep

Annual Event

January 2023

Georgia Power Company – Clifton Seep

Quality Control Review of Analytical Data – January 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical results submitted by GEL Laboratories LLC, Charleston for the water sample collected at Grumman Road Clifton Seep on February 2, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample location, analytical parameters, QC samples, sampling date, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

In accordance with water monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the sample was analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III, assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV, and other relevant parameters. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 903.1 Modified), and Radium-228 (USEPA Method 904.0 Modified) as well as select geochemical indicator parameters.

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were not applicable to this sampling event.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met. Certain analyses were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the sample collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road Clifton Seep sampled on February 2, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Grumman Road Private Industrial Landfill
 2023 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Georgia Power Company – Clifton Seep
 Sample Summary Table – January 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1M, 904.0M)
609366	CLIFTON SEEP	2/2/2023	609366001	W		X	X	X	
609368	CLIFTON SEEP	2/2/2023	609368001	W					X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 W – Water
 WQ – Water Quality Control

APPENDIX A

*Field Sampling Reports
January 2023 Monitoring Event*

Low-Flow Test Report:

Test Date / Time: 1/31/2023 2:50:08 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 16.2 ft Total Depth: 21.2 ft Initial Depth to Water: 6.37 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 9.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time. Cloudy 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
1/31/2023 2:50 PM	00:00	6.03 pH	20.93 °C	1,090.9 µS/cm	0.05 mg/L	122.00 NTU	-29.2 mV	6.37 ft	225.00 ml/min
1/31/2023 2:55 PM	05:00	6.04 pH	20.77 °C	1,065.8 µS/cm	-0.01 mg/L	143.00 NTU	-62.1 mV	6.70 ft	225.00 ml/min
1/31/2023 3:00 PM	10:00	6.03 pH	20.70 °C	1,084.2 µS/cm	0.01 mg/L	193.00 NTU	-68.4 mV	6.70 ft	225.00 ml/min
1/31/2023 3:05 PM	15:00	6.03 pH	21.23 °C	1,078.5 µS/cm	-0.03 mg/L	91.00 NTU	-35.4 mV	6.70 ft	225.00 ml/min
1/31/2023 3:10 PM	20:00	6.03 pH	21.20 °C	1,043.2 µS/cm	-0.03 mg/L	83.80 NTU	-75.6 mV	6.70 ft	225.00 ml/min
1/31/2023 3:15 PM	25:00	6.03 pH	21.11 °C	1,034.3 µS/cm	-0.04 mg/L	62.10 NTU	-81.8 mV	6.70 ft	225.00 ml/min
1/31/2023 3:20 PM	30:00	6.02 pH	20.99 °C	1,035.3 µS/cm	-0.04 mg/L	62.30 NTU	-80.0 mV	6.70 ft	225.00 ml/min
1/31/2023 3:22 PM	32:45	6.01 pH	20.97 °C	1,037.5 µS/cm	-0.04 mg/L	64.70 NTU	-43.3 mV	6.70 ft	225.00 ml/min
1/31/2023 3:27 PM	37:45	6.02 pH	20.90 °C	1,037.0 µS/cm	-0.04 mg/L	71.30 NTU	-84.1 mV	6.70 ft	225.00 ml/min
1/31/2023 3:32 PM	42:45	6.02 pH	20.84 °C	1,049.2 µS/cm	-0.04 mg/L	67.20 NTU	-49.0 mV	6.70 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/31/2023 3:35:15 PM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWA-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 15.9 ft Top of Screen: 5 ft Total Depth: 20.9 ft Initial Depth to Water: 6.9 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 10.9 m Estimated Total Volume Pumped: 16 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 22.08 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
1/31/2023 3:35 PM	00:00	5.05 pH	26.81 °C	130.66 µS/cm	2.14 mg/L	10.60 NTU	187.7 mV	7.65 ft	200.00 ml/min
1/31/2023 3:40 PM	05:00	4.98 pH	20.96 °C	146.55 µS/cm	1.19 mg/L	9.80 NTU	168.5 mV	7.94 ft	200.00 ml/min
1/31/2023 3:45 PM	10:00	4.95 pH	20.60 °C	146.88 µS/cm	0.99 mg/L	13.10 NTU	121.1 mV	7.94 ft	200.00 ml/min
1/31/2023 3:50 PM	15:00	4.92 pH	20.64 °C	152.74 µS/cm	0.85 mg/L	19.60 NTU	87.7 mV	8.03 ft	200.00 ml/min
1/31/2023 3:55 PM	20:00	4.87 pH	20.69 °C	155.40 µS/cm	0.73 mg/L	20.90 NTU	58.9 mV	8.14 ft	200.00 ml/min
1/31/2023 4:00 PM	25:00	4.84 pH	20.73 °C	161.00 µS/cm	0.62 mg/L	20.50 NTU	39.8 mV	8.14 ft	200.00 ml/min
1/31/2023 4:05 PM	30:00	4.80 pH	20.73 °C	170.41 µS/cm	0.65 mg/L	16.90 NTU	26.6 mV	8.74 ft	200.00 ml/min
1/31/2023 4:10 PM	35:00	4.75 pH	20.82 °C	182.24 µS/cm	0.52 mg/L	13.50 NTU	22.1 mV	8.74 ft	200.00 ml/min
1/31/2023 4:15 PM	40:00	4.74 pH	20.96 °C	187.55 µS/cm	0.48 mg/L	9.37 NTU	23.0 mV	8.74 ft	200.00 ml/min
1/31/2023 4:20 PM	45:00	4.68 pH	21.18 °C	189.33 µS/cm	0.38 mg/L	7.55 NTU	26.1 mV	8.74 ft	200.00 ml/min
1/31/2023 4:25 PM	50:00	4.68 pH	21.16 °C	195.03 µS/cm	0.37 mg/L	5.83 NTU	23.1 mV	8.74 ft	200.00 ml/min
1/31/2023 4:30 PM	55:00	4.64 pH	21.15 °C	202.77 µS/cm	0.32 mg/L	5.84 NTU	13.5 mV	8.74 ft	200.00 ml/min
1/31/2023 4:35 PM	01:00:00	4.61 pH	21.11 °C	202.68 µS/cm	0.31 mg/L	6.32 NTU	18.0 mV	8.74 ft	200.00 ml/min
1/31/2023 4:40 PM	01:05:00	4.61 pH	21.18 °C	199.82 µS/cm	0.29 mg/L	5.07 NTU	17.1 mV	8.74 ft	200.00 ml/min
1/31/2023 4:45 PM	01:10:00	4.62 pH	21.33 °C	201.82 µS/cm	0.28 mg/L	5.04 NTU	16.0 mV	8.74 ft	200.00 ml/min

1/31/2023 4:50 PM	01:15:00	4.60 pH	21.24 °C	204.67 µS/cm	0.25 mg/L	4.96 NTU	15.0 mV	8.74 ft	200.00 ml/min
1/31/2023 4:55 PM	01:20:00	4.60 pH	21.12 °C	205.70 µS/cm	0.25 mg/L	4.03 NTU	6.5 mV	8.74 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 9:10:05 AM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWB-4R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17 ft Total Depth: 27 ft Initial Depth to Water: 14.75 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 8.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1000. Cloudy 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/2/2023 9:10 AM	00:00	6.04 pH	17.32 °C	1,398.8 µS/cm	1.83 mg/L	5.30 NTU	-21.3 mV	14.75 ft	175.00 ml/min
2/2/2023 9:15 AM	05:00	6.03 pH	19.42 °C	1,312.0 µS/cm	0.14 mg/L	4.97 NTU	-37.4 mV	15.00 ft	175.00 ml/min
2/2/2023 9:20 AM	10:00	5.89 pH	19.77 °C	998.52 µS/cm	0.10 mg/L	4.58 NTU	-29.2 mV	15.00 ft	175.00 ml/min
2/2/2023 9:25 AM	15:00	5.91 pH	19.95 °C	1,055.3 µS/cm	0.07 mg/L	6.60 NTU	-7.5 mV	15.00 ft	175.00 ml/min
2/2/2023 9:30 AM	20:00	5.93 pH	19.90 °C	1,096.4 µS/cm	0.05 mg/L	5.53 NTU	-12.5 mV	15.00 ft	175.00 ml/min
2/2/2023 9:35 AM	25:00	5.95 pH	19.95 °C	1,108.9 µS/cm	0.05 mg/L	5.76 NTU	-44.6 mV	15.00 ft	175.00 ml/min
2/2/2023 9:40 AM	30:00	5.97 pH	19.94 °C	1,143.0 µS/cm	0.06 mg/L	5.73 NTU	-18.0 mV	15.00 ft	175.00 ml/min
2/2/2023 9:45 AM	35:00	5.98 pH	19.95 °C	1,132.5 µS/cm	0.06 mg/L	6.39 NTU	-47.4 mV	15.00 ft	175.00 ml/min
2/2/2023 9:50 AM	40:00	5.98 pH	19.95 °C	1,140.0 µS/cm	0.06 mg/L	5.74 NTU	-46.3 mV	15.00 ft	175.00 ml/min
2/2/2023 9:55 AM	45:00	5.97 pH	19.95 °C	1,129.9 µS/cm	0.06 mg/L	5.22 NTU	-13.0 mV	15.00 ft	175.00 ml/min
2/2/2023 10:00 AM	50:00	5.99 pH	19.87 °C	1,146.8 µS/cm	0.06 mg/L	4.95 NTU	-41.6 mV	15.00 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:00:58 AM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWB-5R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16 ft Total Depth: 26.5 ft Initial Depth to Water: 9.82 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1031. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/1/2023 10:00 AM	00:00	5.78 pH	20.12 °C	1,281.0 µS/cm	4.34 mg/L	3.08 NTU	-1.9 mV	9.82 ft	200.00 ml/min
2/1/2023 10:05 AM	05:00	5.84 pH	20.85 °C	1,343.9 µS/cm	0.19 mg/L	4.33 NTU	-39.0 mV	10.30 ft	200.00 ml/min
2/1/2023 10:10 AM	10:00	5.79 pH	20.93 °C	1,253.0 µS/cm	0.07 mg/L	7.16 NTU	-75.6 mV	10.30 ft	200.00 ml/min
2/1/2023 10:15 AM	15:00	5.80 pH	21.05 °C	1,261.8 µS/cm	0.03 mg/L	4.87 NTU	-42.9 mV	10.30 ft	200.00 ml/min
2/1/2023 10:20 AM	20:00	5.81 pH	21.32 °C	1,262.9 µS/cm	0.01 mg/L	4.06 NTU	-42.1 mV	10.30 ft	200.00 ml/min
2/1/2023 10:25 AM	25:00	5.81 pH	21.47 °C	1,251.5 µS/cm	0.00 mg/L	4.04 NTU	-42.7 mV	10.30 ft	200.00 ml/min
2/1/2023 10:30 AM	30:00	5.81 pH	21.50 °C	1,244.0 µS/cm	-0.01 mg/L	4.77 NTU	-78.6 mV	10.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 8:50:06 AM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWB-6R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12 ft Total Depth: 22.7 ft Initial Depth to Water: 7.44 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 0920. Sunny 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/1/2023 8:50 AM	00:00	5.54 pH	19.20 °C	1,544.7 µS/cm	0.48 mg/L	3.88 NTU	46.5 mV	7.44 ft	200.00 ml/min
2/1/2023 8:55 AM	05:00	5.54 pH	19.55 °C	1,519.1 µS/cm	0.10 mg/L	2.99 NTU	29.1 mV	7.60 ft	200.00 ml/min
2/1/2023 9:00 AM	10:00	5.54 pH	19.61 °C	1,536.1 µS/cm	0.06 mg/L	2.53 NTU	14.3 mV	7.60 ft	200.00 ml/min
2/1/2023 9:05 AM	15:00	5.54 pH	19.68 °C	1,528.8 µS/cm	0.04 mg/L	2.69 NTU	22.7 mV	7.60 ft	200.00 ml/min
2/1/2023 9:10 AM	20:00	5.54 pH	19.77 °C	1,527.8 µS/cm	0.03 mg/L	5.77 NTU	9.5 mV	7.60 ft	200.00 ml/min
2/1/2023 9:15 AM	25:00	5.54 pH	19.81 °C	1,514.4 µS/cm	0.02 mg/L	3.77 NTU	21.4 mV	7.60 ft	200.00 ml/min
2/1/2023 9:20 AM	30:00	5.54 pH	19.73 °C	1,523.2 µS/cm	0.01 mg/L	3.25 NTU	8.9 mV	7.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 10:45:23 AM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.2 ft Total Depth: 28.2 ft Initial Depth to Water: 19.01 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1115. Cloudy 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/2/2023 10:45 AM	00:00	5.54 pH	20.43 °C	173.93 µS/cm	0.25 mg/L	0.98 NTU	142.9 mV	19.01 ft	250.00 ml/min
2/2/2023 10:50 AM	05:00	5.70 pH	20.82 °C	186.89 µS/cm	0.09 mg/L	0.79 NTU	115.8 mV	19.20 ft	250.00 ml/min
2/2/2023 10:55 AM	10:00	5.76 pH	20.84 °C	193.15 µS/cm	0.05 mg/L	0.94 NTU	127.8 mV	19.20 ft	250.00 ml/min
2/2/2023 11:00 AM	15:00	5.74 pH	20.97 °C	190.61 µS/cm	0.04 mg/L	0.68 NTU	104.5 mV	19.20 ft	250.00 ml/min
2/2/2023 11:05 AM	20:00	5.77 pH	21.06 °C	193.46 µS/cm	0.02 mg/L	0.54 NTU	122.4 mV	19.20 ft	250.00 ml/min
2/2/2023 11:10 AM	25:00	5.76 pH	21.14 °C	192.58 µS/cm	0.01 mg/L	0.39 NTU	123.2 mV	19.20 ft	250.00 ml/min
2/2/2023 11:15 AM	30:00	5.78 pH	21.17 °C	194.10 µS/cm	0.01 mg/L	0.38 NTU	122.9 mV	19.20 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 11:31:19 AM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 27.73 ft Total Depth: 32.73 ft Initial Depth to Water: 19.54 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 24.54 ft Estimated Total Volume Pumped: 6.607 liter Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 1201. Cloudy 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/2/2023 11:31 AM	00:00	4.63 pH	24.88 °C	0.00 µS/cm	7.77 mg/L	3.72 NTU	133.8 mV	19.54 ft	220.00 ml/min
2/2/2023 11:36 AM	05:00	4.46 pH	21.76 °C	51.67 µS/cm	1.02 mg/L	3.20 NTU	157.9 mV	19.54 ft	220.00 ml/min
2/2/2023 11:41 AM	10:00	4.50 pH	21.96 °C	51.15 µS/cm	0.77 mg/L	2.41 NTU	141.2 mV	19.54 ft	220.00 ml/min
2/2/2023 11:46 AM	15:00	4.54 pH	21.85 °C	50.35 µS/cm	0.50 mg/L	1.78 NTU	115.7 mV	19.54 ft	220.00 ml/min
2/2/2023 11:51 AM	20:00	4.56 pH	21.91 °C	50.31 µS/cm	0.44 mg/L	1.82 NTU	102.4 mV	19.54 ft	220.00 ml/min
2/2/2023 11:56 AM	25:00	4.57 pH	22.07 °C	49.72 µS/cm	0.35 mg/L	1.33 NTU	93.6 mV	19.54 ft	220.00 ml/min
2/2/2023 12:01 PM	30:02	4.60 pH	22.02 °C	49.70 µS/cm	0.32 mg/L	1.75 NTU	87.5 mV	19.54 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/31/2023 5:05:09 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22.4 ft Total Depth: 27.4 ft Initial Depth to Water: 9.11 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 202 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Purged dry. Log 1 of 2.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
1/31/2023 5:05 PM	00:00	4.22 pH	20.83 °C	109.16 µS/cm	0.24 mg/L	12.80 NTU	222.0 mV	9.11 ft	100.00 ml/min
1/31/2023 5:10 PM	05:00	4.20 pH	20.48 °C	110.12 µS/cm	0.13 mg/L	10.10 NTU	274.9 mV	10.90 ft	100.00 ml/min
1/31/2023 5:15 PM	10:00	4.21 pH	20.39 °C	110.49 µS/cm	0.09 mg/L	9.73 NTU	299.2 mV	12.30 ft	100.00 ml/min
1/31/2023 5:20 PM	15:00	4.20 pH	20.36 °C	110.59 µS/cm	0.07 mg/L	9.24 NTU	318.8 mV	13.10 ft	100.00 ml/min
1/31/2023 5:25 PM	20:00	4.20 pH	20.40 °C	110.56 µS/cm	0.06 mg/L	7.90 NTU	323.8 mV	14.20 ft	100.00 ml/min
1/31/2023 5:30 PM	25:00	4.20 pH	20.40 °C	110.47 µS/cm	0.06 mg/L	8.21 NTU	348.0 mV	14.20 ft	100.00 ml/min
1/31/2023 5:35 PM	30:00	4.20 pH	20.40 °C	110.64 µS/cm	0.07 mg/L	8.67 NTU	361.5 mV	15.40 ft	100.00 ml/min
1/31/2023 5:40 PM	35:00	4.21 pH	20.37 °C	110.43 µS/cm	0.07 mg/L	8.76 NTU	360.2 mV	16.70 ft	100.00 ml/min
1/31/2023 5:45 PM	40:00	4.23 pH	20.48 °C	109.86 µS/cm	0.04 mg/L	8.31 NTU	219.5 mV	16.70 ft	100.00 ml/min
1/31/2023 5:50 PM	45:00	4.23 pH	20.57 °C	109.79 µS/cm	0.05 mg/L	8.07 NTU	198.6 mV	17.80 ft	100.00 ml/min
1/31/2023 5:55 PM	50:00	4.25 pH	20.48 °C	110.75 µS/cm	0.07 mg/L	7.99 NTU	272.5 mV	19.50 ft	100.00 ml/min
1/31/2023 6:00 PM	55:00	4.25 pH	20.57 °C	110.71 µS/cm	0.07 mg/L	8.81 NTU	274.5 mV	20.60 ft	100.00 ml/min
1/31/2023 6:05 PM	01:00:00	4.26 pH	20.64 °C	109.59 µS/cm	0.08 mg/L	7.81 NTU	225.6 mV	21.60 ft	100.00 ml/min
1/31/2023 6:10 PM	01:05:00	4.46 pH	20.64 °C	107.44 µS/cm	5.09 mg/L	8.23 NTU	214.6 mV	23.10 ft	100.00 ml/min
1/31/2023 6:15 PM	01:10:00	4.72 pH	20.26 °C	105.23 µS/cm	7.64 mg/L	8.90 NTU	154.2 mV	24.70 ft	100.00 ml/min

1/31/2023 6:20 PM	01:15:00	4.70 pH	20.54 °C	100.34 µS/cm	6.50 mg/L	8.64 NTU	93.9 mV	26.00 ft	100.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 11:20:21 AM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22.4 ft Total Depth: 27.4 ft Initial Depth to Water: 9.31 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 1.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 44 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1135. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/1/2023 11:20 AM	00:00	4.58 pH	22.54 °C	101.87 µS/cm	0.81 mg/L	6.47 NTU	85.4 mV	9.31 ft	100.00 ml/min
2/1/2023 11:25 AM	05:00	4.57 pH	22.04 °C	102.16 µS/cm	0.26 mg/L	7.20 NTU	77.5 mV	10.90 ft	100.00 ml/min
2/1/2023 11:30 AM	10:00	4.57 pH	21.98 °C	102.87 µS/cm	0.12 mg/L	6.57 NTU	73.2 mV	12.00 ft	100.00 ml/min
2/1/2023 11:35 AM	15:00	4.57 pH	21.95 °C	102.84 µS/cm	0.06 mg/L	6.56 NTU	72.6 mV	13.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 1:25:19 PM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 17.58 ft Total Depth: 22.58 ft Initial Depth to Water: 13.63 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 25 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 30.84 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Changed to Aquatroll 965658 at 16:26. Sample time 1135. Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/1/2023 1:25 PM	00:00	4.54 pH	34.56 °C	10.87 µS/cm	2.99 mg/L	3.47 NTU	315.1 mV	13.63 ft	150.00 ml/min
2/1/2023 1:30 PM	05:00	5.15 pH	30.70 °C	5.67 µS/cm	3.51 mg/L	3.37 NTU	53.3 mV	16.00 ft	150.00 ml/min
2/1/2023 1:35 PM	10:00	4.90 pH	29.63 °C	6.03 µS/cm	5.07 mg/L	3.51 NTU	203.4 mV	16.10 ft	150.00 ml/min
2/1/2023 1:40 PM	15:00	5.18 pH	29.09 °C	5.46 µS/cm	5.77 mg/L	3.44 NTU	50.4 mV	16.10 ft	150.00 ml/min
2/1/2023 1:45 PM	20:00	4.97 pH	28.69 °C	5.16 µS/cm	6.08 mg/L	3.21 NTU	52.4 mV	16.10 ft	150.00 ml/min
2/1/2023 1:50 PM	25:00	5.25 pH	28.32 °C	5.42 µS/cm	6.31 mg/L	2.94 NTU	61.2 mV	16.10 ft	150.00 ml/min
2/1/2023 1:55 PM	30:00	5.07 pH	28.22 °C	5.09 µS/cm	6.24 mg/L	2.93 NTU	61.4 mV	16.10 ft	150.00 ml/min
2/1/2023 2:00 PM	35:00	5.83 pH	28.11 °C	5.25 µS/cm	5.98 mg/L	2.57 NTU	80.4 mV	16.10 ft	150.00 ml/min
2/1/2023 2:05 PM	40:00	4.88 pH	27.99 °C	6.38 µS/cm	6.11 mg/L	2.44 NTU	66.3 mV	16.10 ft	150.00 ml/min
2/1/2023 2:10 PM	45:00	5.00 pH	27.88 °C	6.12 µS/cm	6.25 mg/L	2.41 NTU	55.8 mV	16.10 ft	150.00 ml/min
2/1/2023 2:15 PM	50:00	5.50 pH	28.08 °C	5.56 µS/cm	6.23 mg/L	2.37 NTU	56.0 mV	16.10 ft	150.00 ml/min
2/1/2023 2:20 PM	55:00	4.61 pH	28.70 °C	5.76 µS/cm	6.37 mg/L	1.91 NTU	51.0 mV	16.10 ft	150.00 ml/min
2/1/2023 2:25 PM	01:00:00	4.93 pH	29.00 °C	4.55 µS/cm	6.40 mg/L	1.79 NTU	60.5 mV	16.10 ft	150.00 ml/min
2/1/2023 2:30 PM	01:05:00	5.11 pH	28.73 °C	5.55 µS/cm	6.23 mg/L	1.57 NTU	45.3 mV	16.10 ft	150.00 ml/min
2/1/2023 2:35 PM	01:10:00	4.90 pH	28.40 °C	5.73 µS/cm	6.34 mg/L	1.48 NTU	53.4 mV	16.10 ft	150.00 ml/min

2/1/2023 2:40 PM	01:15:00	5.16 pH	29.02 °C	5.01 µS/cm	6.74 mg/L	1.44 NTU	51.7 mV	16.10 ft	150.00 ml/min
2/1/2023 2:45 PM	01:20:00	5.38 pH	28.67 °C	6.51 µS/cm	6.66 mg/L	1.91 NTU	53.3 mV	16.10 ft	150.00 ml/min
2/1/2023 2:50 PM	01:25:00	5.43 pH	28.06 °C	4.31 µS/cm	6.14 mg/L	1.87 NTU	53.3 mV	16.10 ft	150.00 ml/min
2/1/2023 2:55 PM	01:30:00	5.65 pH	28.20 °C	4.73 µS/cm	5.70 mg/L	1.52 NTU	54.1 mV	16.10 ft	150.00 ml/min
2/1/2023 3:00 PM	01:35:00	5.58 pH	28.93 °C	3.84 µS/cm	5.28 mg/L	1.35 NTU	51.7 mV	16.10 ft	150.00 ml/min
2/1/2023 3:05 PM	01:40:00	5.43 pH	29.76 °C	3.21 µS/cm	4.88 mg/L	3.32 NTU	51.7 mV	16.10 ft	100.00 ml/min
2/1/2023 3:10 PM	01:45:00	5.54 pH	29.91 °C	3.44 µS/cm	4.56 mg/L	2.99 NTU	53.1 mV	16.20 ft	100.00 ml/min
2/1/2023 3:15 PM	01:50:00	6.61 pH	28.90 °C	3.81 µS/cm	4.34 mg/L	3.02 NTU	54.0 mV	16.20 ft	100.00 ml/min
2/1/2023 3:20 PM	01:55:00	5.51 pH	28.87 °C	4.34 µS/cm	4.20 mg/L	2.99 NTU	51.2 mV	16.20 ft	100.00 ml/min
2/1/2023 3:25 PM	02:00:00	5.57 pH	28.35 °C	3.76 µS/cm	4.01 mg/L	1.73 NTU	56.8 mV	16.20 ft	100.00 ml/min
2/1/2023 3:30 PM	02:05:00	5.48 pH	27.71 °C	4.01 µS/cm	3.86 mg/L	1.70 NTU	54.2 mV	16.20 ft	100.00 ml/min
2/1/2023 3:35 PM	02:10:00	5.61 pH	27.41 °C	5.82 µS/cm	3.74 mg/L	1.68 NTU	54.3 mV	16.20 ft	100.00 ml/min
2/1/2023 3:40 PM	02:15:00	5.65 pH	27.19 °C	5.16 µS/cm	3.59 mg/L	1.48 NTU	51.7 mV	16.20 ft	100.00 ml/min
2/1/2023 3:45 PM	02:20:00	5.62 pH	27.17 °C	4.15 µS/cm	3.43 mg/L	1.39 NTU	53.2 mV	16.20 ft	100.00 ml/min
2/1/2023 3:50 PM	02:25:00	5.63 pH	27.35 °C	4.06 µS/cm	3.28 mg/L	1.59 NTU	52.8 mV	16.20 ft	100.00 ml/min
2/1/2023 3:55 PM	02:30:00	5.96 pH	27.80 °C	4.04 µS/cm	3.11 mg/L	1.43 NTU	53.7 mV	16.20 ft	100.00 ml/min
2/1/2023 4:00 PM	02:35:00	6.07 pH	27.28 °C	3.85 µS/cm	2.96 mg/L	1.40 NTU	56.6 mV	16.20 ft	100.00 ml/min
2/1/2023 4:05 PM	02:40:00	4.97 pH	27.56 °C	3.86 µS/cm	2.81 mg/L	1.47 NTU	69.7 mV	16.20 ft	100.00 ml/min
2/1/2023 4:10 PM	02:45:00	5.63 pH	27.03 °C	2.61 µS/cm	2.68 mg/L	1.53 NTU	59.0 mV	16.20 ft	100.00 ml/min
2/1/2023 4:15 PM	02:50:00	5.48 pH	26.59 °C	2.69 µS/cm	2.56 mg/L	1.43 NTU	62.9 mV	16.20 ft	100.00 ml/min
2/1/2023 4:20 PM	02:55:00	5.35 pH	26.13 °C	2.75 µS/cm	2.45 mg/L	1.26 NTU	62.5 mV	16.20 ft	100.00 ml/min
2/1/2023 4:25 PM	03:00:00	5.75 pH	25.75 °C	2.80 µS/cm	2.34 mg/L	0.86 NTU	83.1 mV	16.20 ft	100.00 ml/min
2/1/2023 4:30 PM	03:05:00	4.67 pH	23.64 °C	2,129.4 µS/cm	0.50 mg/L	1.50 NTU	177.7 mV	16.20 ft	100.00 ml/min
2/1/2023 4:35 PM	03:10:00	4.70 pH	22.29 °C	2,181.1 µS/cm	0.25 mg/L	1.24 NTU	191.5 mV	16.20 ft	100.00 ml/min
2/1/2023 4:40 PM	03:15:00	4.71 pH	22.11 °C	2,168.3 µS/cm	0.18 mg/L	1.02 NTU	176.2 mV	16.20 ft	100.00 ml/min
2/1/2023 4:45 PM	03:20:00	4.71 pH	22.06 °C	2,153.1 µS/cm	0.15 mg/L	0.99 NTU	174.7 mV	16.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 11:40:03 AM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 21.54 ft Total Depth: 26.54 ft Initial Depth to Water: 13.06 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.69 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 1210. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/1/2023 11:40 AM	00:00	3.98 pH	26.95 °C	818.15 µS/cm	0.30 mg/L	2.04 NTU	353.4 mV	13.06 ft	200.00 ml/min
2/1/2023 11:45 AM	05:00	3.94 pH	23.55 °C	875.14 µS/cm	0.14 mg/L	2.10 NTU	362.5 mV	13.45 ft	200.00 ml/min
2/1/2023 11:50 AM	10:00	3.91 pH	23.46 °C	869.84 µS/cm	0.08 mg/L	2.60 NTU	212.3 mV	13.45 ft	200.00 ml/min
2/1/2023 11:55 AM	15:00	3.91 pH	23.51 °C	866.90 µS/cm	0.07 mg/L	1.60 NTU	165.6 mV	13.45 ft	200.00 ml/min
2/1/2023 12:00 PM	20:00	3.92 pH	23.59 °C	867.95 µS/cm	0.06 mg/L	1.64 NTU	135.4 mV	13.45 ft	200.00 ml/min
2/1/2023 12:05 PM	25:00	3.92 pH	23.65 °C	870.68 µS/cm	0.05 mg/L	1.28 NTU	121.2 mV	13.45 ft	200.00 ml/min
2/1/2023 12:10 PM	30:00	3.93 pH	23.68 °C	875.40 µS/cm	0.05 mg/L	1.19 NTU	112.7 mV	13.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 9:40:20 AM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 18.8 ft Total Depth: 23.8 ft Initial Depth to Water: 14.87 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 8.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 6.48 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 1015. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/1/2023 9:40 AM	00:00	4.93 pH	21.53 °C	116.70 µS/cm	3.09 mg/L	8.20 NTU	181.1 mV	14.87 ft	250.00 ml/min
2/1/2023 9:45 AM	05:00	4.89 pH	21.22 °C	120.15 µS/cm	2.82 mg/L	14.20 NTU	162.1 mV	14.87 ft	250.00 ml/min
2/1/2023 9:50 AM	10:00	4.89 pH	21.37 °C	114.56 µS/cm	2.53 mg/L	15.30 NTU	139.2 mV	15.41 ft	250.00 ml/min
2/1/2023 9:55 AM	15:00	4.89 pH	21.40 °C	111.13 µS/cm	2.40 mg/L	11.80 NTU	116.2 mV	15.41 ft	250.00 ml/min
2/1/2023 10:00 AM	20:00	4.88 pH	21.45 °C	108.22 µS/cm	2.12 mg/L	8.72 NTU	101.8 mV	15.41 ft	250.00 ml/min
2/1/2023 10:05 AM	25:00	4.88 pH	21.60 °C	105.61 µS/cm	1.86 mg/L	6.71 NTU	91.9 mV	15.41 ft	250.00 ml/min
2/1/2023 10:10 AM	30:00	4.86 pH	21.71 °C	103.44 µS/cm	1.62 mg/L	4.81 NTU	84.9 mV	15.41 ft	250.00 ml/min
2/1/2023 10:15 AM	35:00	4.86 pH	21.72 °C	103.14 µS/cm	1.57 mg/L	3.74 NTU	80.7 mV	15.41 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 12:50:32 PM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 22 ft Total Depth: 27 ft Initial Depth to Water: 19.51 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 7.35 liter Flow Cell Volume: 90 ml Final Flow Rate: 210 ml/min Final Draw Down: 3.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 1325. Cloudy 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/2/2023 12:50 PM	00:00	5.80 pH	29.63 °C	468.45 µS/cm	2.73 mg/L	14.20 NTU	113.4 mV	19.51 ft	210.00 ml/min
2/2/2023 12:55 PM	05:00	5.98 pH	22.52 °C	534.24 µS/cm	0.60 mg/L	7.76 NTU	122.1 mV	19.81 ft	210.00 ml/min
2/2/2023 1:00 PM	10:00	5.94 pH	21.85 °C	576.08 µS/cm	1.05 mg/L	4.02 NTU	110.1 mV	19.81 ft	210.00 ml/min
2/2/2023 1:05 PM	15:00	5.97 pH	21.56 °C	652.45 µS/cm	1.12 mg/L	3.80 NTU	105.0 mV	19.81 ft	210.00 ml/min
2/2/2023 1:10 PM	20:00	5.97 pH	21.54 °C	704.17 µS/cm	1.05 mg/L	2.47 NTU	101.4 mV	19.81 ft	210.00 ml/min
2/2/2023 1:15 PM	25:00	5.98 pH	21.38 °C	739.43 µS/cm	0.96 mg/L	1.31 NTU	97.0 mV	19.81 ft	210.00 ml/min
2/2/2023 1:20 PM	30:00	5.98 pH	21.29 °C	753.85 µS/cm	0.92 mg/L	1.25 NTU	95.1 mV	19.81 ft	210.00 ml/min
2/2/2023 1:25 PM	35:00	5.98 pH	21.27 °C	763.41 µS/cm	0.91 mg/L	0.85 NTU	92.9 mV	19.81 ft	210.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 2:05:11 PM

Project: Grumman Road Landfill

Operator Name: Toby Johnson

Location Name: GWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 21.8 ft Total Depth: 26.8 ft Initial Depth to Water: 19.21 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 5.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 2.28 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1435

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/2/2023 2:05 PM	00:00	6.42 pH	30.25 °C	256.16 µS/cm	6.95 mg/L	7.33 NTU	119.2 mV	19.21 ft	180.00 ml/min
2/2/2023 2:10 PM	05:00	6.66 pH	22.45 °C	660.35 µS/cm	0.28 mg/L	4.38 NTU	106.5 mV	19.40 ft	180.00 ml/min
2/2/2023 2:15 PM	10:00	6.67 pH	21.97 °C	663.30 µS/cm	0.28 mg/L	4.15 NTU	99.3 mV	19.40 ft	180.00 ml/min
2/2/2023 2:20 PM	15:00	6.68 pH	21.82 °C	666.14 µS/cm	0.26 mg/L	2.47 NTU	94.4 mV	19.40 ft	180.00 ml/min
2/2/2023 2:25 PM	20:00	6.68 pH	21.84 °C	670.45 µS/cm	0.18 mg/L	2.15 NTU	90.6 mV	19.40 ft	180.00 ml/min
2/2/2023 2:30 PM	25:00	6.61 pH	21.77 °C	672.47 µS/cm	0.24 mg/L	2.93 NTU	99.7 mV	19.40 ft	180.00 ml/min
2/2/2023 2:35 PM	30:00	6.65 pH	21.91 °C	669.69 µS/cm	0.16 mg/L	1.98 NTU	92.8 mV	19.40 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 3:30:05 PM

Project: Grumman Road Landfill

Operator Name: J. Berisford

Location Name: GWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.2 ft Total Depth: 28.2 ft Initial Depth to Water: 20.37 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sunny, sample time-1615, FB-02 here at 1550

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
2/1/2023 3:30 PM	00:00	3.13 pH	29.86 °C	0.00 µS/cm	7.54 mg/L	10.00 NTU	39.1 mV	20.37 ft	200.00 ml/min
2/1/2023 3:35 PM	05:00	4.80 pH	24.34 °C	1,161.9 µS/cm	0.49 mg/L	9.91 NTU	134.3 mV	20.60 ft	200.00 ml/min
2/1/2023 3:40 PM	10:00	4.93 pH	23.13 °C	1,268.4 µS/cm	0.26 mg/L	5.09 NTU	112.0 mV	20.80 ft	200.00 ml/min
2/1/2023 3:45 PM	15:00	4.76 pH	23.01 °C	679.84 µS/cm	3.54 mg/L	3.72 NTU	101.3 mV	20.80 ft	200.00 ml/min
2/1/2023 3:50 PM	20:00	4.77 pH	22.89 °C	1,110.9 µS/cm	0.33 mg/L	3.54 NTU	112.1 mV	20.90 ft	200.00 ml/min
2/1/2023 3:55 PM	25:00	5.04 pH	23.16 °C	1,374.8 µS/cm	0.16 mg/L	3.11 NTU	106.8 mV	20.90 ft	200.00 ml/min
2/1/2023 4:00 PM	30:00	5.13 pH	23.26 °C	1,479.4 µS/cm	0.12 mg/L	2.21 NTU	95.1 mV	20.90 ft	200.00 ml/min
2/1/2023 4:05 PM	35:00	5.18 pH	23.12 °C	1,540.4 µS/cm	0.11 mg/L	2.95 NTU	90.9 mV	20.90 ft	200.00 ml/min
2/1/2023 4:10 PM	40:00	5.21 pH	23.09 °C	1,581.6 µS/cm	0.11 mg/L	1.57 NTU	84.4 mV	20.90 ft	200.00 ml/min
2/1/2023 4:15 PM	45:00	5.23 pH	23.04 °C	1,607.3 µS/cm	0.10 mg/L	1.22 NTU	81.8 mV	20.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 3:20:18 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 18.5 ft Total Depth: 23.5 ft Initial Depth to Water: 5.06 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 21 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 34 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1550. Sunny, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/1/2023 3:20 PM	00:00	4.74 pH	22.96 °C	1,695.8 µS/cm	0.13 mg/L	3.73 NTU	46.4 mV	5.06 ft	175.00 ml/min
2/1/2023 3:25 PM	05:00	4.75 pH	20.93 °C	1,769.0 µS/cm	0.03 mg/L	4.78 NTU	27.7 mV	7.90 ft	175.00 ml/min
2/1/2023 3:30 PM	10:00	4.76 pH	20.76 °C	1,758.8 µS/cm	0.02 mg/L	4.38 NTU	32.9 mV	7.90 ft	175.00 ml/min
2/1/2023 3:35 PM	15:00	4.75 pH	20.81 °C	1,766.3 µS/cm	0.01 mg/L	3.79 NTU	32.2 mV	7.90 ft	175.00 ml/min
2/1/2023 3:40 PM	20:00	4.74 pH	20.74 °C	1,754.8 µS/cm	0.01 mg/L	3.65 NTU	30.2 mV	7.90 ft	175.00 ml/min
2/1/2023 3:45 PM	25:00	4.75 pH	20.69 °C	1,746.4 µS/cm	0.01 mg/L	2.30 NTU	29.1 mV	7.90 ft	175.00 ml/min
2/1/2023 3:50 PM	30:00	4.74 pH	20.76 °C	1,746.6 µS/cm	0.01 mg/L	2.21 NTU	28.3 mV	7.90 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 1:15:17 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.59 ft Total Depth: 25.59 ft Initial Depth to Water: 21.03 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 9.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 210 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1400. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/1/2023 1:15 PM	00:00	5.94 pH	24.48 °C	1,009.5 µS/cm	0.37 mg/L	2.95 NTU	44.8 mV	21.03 ft	210.00 ml/min
2/1/2023 1:20 PM	05:00	5.94 pH	24.04 °C	1,051.1 µS/cm	0.05 mg/L	2.05 NTU	40.8 mV	21.50 ft	210.00 ml/min
2/1/2023 1:25 PM	10:00	5.95 pH	23.75 °C	1,064.9 µS/cm	0.02 mg/L	2.38 NTU	43.2 mV	21.50 ft	210.00 ml/min
2/1/2023 1:30 PM	15:00	5.96 pH	23.60 °C	1,060.6 µS/cm	0.01 mg/L	2.07 NTU	40.4 mV	21.50 ft	210.00 ml/min
2/1/2023 1:35 PM	20:00	5.96 pH	23.66 °C	1,053.4 µS/cm	0.00 mg/L	1.74 NTU	40.0 mV	21.50 ft	210.00 ml/min
2/1/2023 1:40 PM	25:00	5.97 pH	23.68 °C	1,045.8 µS/cm	-0.01 mg/L	1.22 NTU	35.9 mV	21.50 ft	210.00 ml/min
2/1/2023 1:45 PM	30:00	5.98 pH	23.52 °C	1,045.2 µS/cm	-0.01 mg/L	1.15 NTU	39.1 mV	21.50 ft	210.00 ml/min
2/1/2023 1:50 PM	35:00	5.98 pH	23.58 °C	1,033.9 µS/cm	-0.01 mg/L	0.96 NTU	38.2 mV	21.50 ft	210.00 ml/min
2/1/2023 1:55 PM	40:00	6.00 pH	23.56 °C	1,025.3 µS/cm	-0.01 mg/L	0.76 NTU	32.8 mV	21.50 ft	210.00 ml/min
2/1/2023 2:00 PM	45:00	6.01 pH	23.52 °C	1,017.4 µS/cm	-0.01 mg/L	0.72 NTU	35.8 mV	21.50 ft	210.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 12:25:07 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: GWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 20.54 ft Total Depth: 25.54 ft Initial Depth to Water: 20.33 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 20.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1400. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/2/2023 12:25 PM	00:00	5.91 pH	23.08 °C	616.30 µS/cm	3.56 mg/L	1.73 NTU	57.7 mV	20.33 ft	220.00 ml/min
2/2/2023 12:30 PM	05:00	5.31 pH	21.58 °C	91.74 µS/cm	4.65 mg/L	1.59 NTU	138.1 mV	20.40 ft	220.00 ml/min
2/2/2023 12:35 PM	10:00	5.19 pH	21.58 °C	65.08 µS/cm	4.72 mg/L	1.48 NTU	153.1 mV	20.40 ft	220.00 ml/min
2/2/2023 12:40 PM	15:00	5.22 pH	21.63 °C	95.53 µS/cm	4.71 mg/L	0.92 NTU	144.9 mV	20.40 ft	220.00 ml/min
2/2/2023 12:45 PM	20:00	5.36 pH	21.55 °C	168.61 µS/cm	4.49 mg/L	0.87 NTU	184.2 mV	20.40 ft	220.00 ml/min
2/2/2023 12:50 PM	25:00	5.47 pH	21.69 °C	245.08 µS/cm	3.94 mg/L	0.63 NTU	176.3 mV	20.40 ft	220.00 ml/min
2/2/2023 12:55 PM	30:00	5.54 pH	21.78 °C	309.57 µS/cm	3.59 mg/L	0.68 NTU	124.5 mV	20.40 ft	220.00 ml/min
2/2/2023 1:00 PM	35:00	5.56 pH	22.00 °C	359.16 µS/cm	3.28 mg/L	0.72 NTU	148.3 mV	20.40 ft	220.00 ml/min
2/2/2023 1:05 PM	40:00	5.59 pH	22.25 °C	401.37 µS/cm	3.07 mg/L	0.93 NTU	109.1 mV	20.40 ft	220.00 ml/min
2/2/2023 1:10 PM	45:00	5.60 pH	22.29 °C	446.37 µS/cm	2.80 mg/L	0.66 NTU	129.7 mV	20.40 ft	220.00 ml/min
2/2/2023 1:15 PM	50:00	5.62 pH	22.18 °C	493.72 µS/cm	2.64 mg/L	0.75 NTU	123.9 mV	20.40 ft	220.00 ml/min
2/2/2023 1:20 PM	55:00	5.63 pH	22.18 °C	556.17 µS/cm	2.37 mg/L	0.59 NTU	118.2 mV	20.40 ft	220.00 ml/min
2/2/2023 1:25 PM	01:00:00	5.65 pH	22.19 °C	621.22 µS/cm	2.03 mg/L	0.52 NTU	113.8 mV	20.40 ft	220.00 ml/min
2/2/2023 1:30 PM	01:05:00	5.68 pH	22.25 °C	668.24 µS/cm	1.88 mg/L	0.41 NTU	89.6 mV	20.40 ft	220.00 ml/min
2/2/2023 1:35 PM	01:10:00	5.70 pH	22.27 °C	685.37 µS/cm	1.82 mg/L	0.41 NTU	103.3 mV	20.40 ft	220.00 ml/min

2/2/2023 1:40 PM	01:15:00	5.71 pH	22.29 °C	703.96 µS/cm	1.73 mg/L	0.44 NTU	85.5 mV	20.40 ft	220.00 ml/min
2/2/2023 1:45 PM	01:20:00	5.71 pH	22.27 °C	710.54 µS/cm	1.66 mg/L	0.38 NTU	84.7 mV	20.40 ft	220.00 ml/min
2/2/2023 1:50 PM	01:25:00	5.71 pH	22.45 °C	715.76 µS/cm	1.63 mg/L	0.42 NTU	101.1 mV	20.40 ft	220.00 ml/min
2/2/2023 1:55 PM	01:30:00	5.71 pH	22.61 °C	733.15 µS/cm	1.53 mg/L	0.37 NTU	85.1 mV	20.40 ft	220.00 ml/min
2/2/2023 2:00 PM	01:35:00	5.71 pH	22.54 °C	735.06 µS/cm	1.50 mg/L	0.36 NTU	83.9 mV	20.40 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 9:10:09 AM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: GWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 13.74 ft Total Depth: 18.74 ft Initial Depth to Water: 8.93 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 16 ft Estimated Total Volume Pumped: 6.79 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 0949. Cloudy 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/2/2023 9:10 AM	00:00	4.61 pH	17.76 °C	206.36 µS/cm	0.36 mg/L	4.03 NTU	164.5 mV	8.93 ft	175.00 ml/min
2/2/2023 9:15 AM	05:00	4.59 pH	17.97 °C	204.38 µS/cm	0.23 mg/L	7.60 NTU	153.7 mV	8.93 ft	175.00 ml/min
2/2/2023 9:20 AM	10:00	4.59 pH	18.06 °C	212.65 µS/cm	0.21 mg/L	14.40 NTU	169.6 mV	8.93 ft	175.00 ml/min
2/2/2023 9:25 AM	15:00	4.60 pH	18.22 °C	215.47 µS/cm	0.18 mg/L	9.63 NTU	167.6 mV	8.93 ft	175.00 ml/min
2/2/2023 9:30 AM	20:00	4.61 pH	18.24 °C	212.76 µS/cm	0.14 mg/L	8.59 NTU	165.0 mV	8.93 ft	175.00 ml/min
2/2/2023 9:35 AM	25:00	4.62 pH	18.20 °C	217.01 µS/cm	0.13 mg/L	7.08 NTU	160.5 mV	8.93 ft	175.00 ml/min
2/2/2023 9:39 AM	28:51	4.62 pH	18.24 °C	212.47 µS/cm	0.15 mg/L	6.43 NTU	147.0 mV	8.93 ft	175.00 ml/min
2/2/2023 9:44 AM	33:51	4.62 pH	18.29 °C	215.43 µS/cm	0.14 mg/L	4.93 NTU	138.1 mV	8.93 ft	175.00 ml/min
2/2/2023 9:49 AM	38:51	4.63 pH	18.36 °C	213.99 µS/cm	0.11 mg/L	3.92 NTU	136.5 mV	8.93 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/1/2023 2:45:09 PM

Project: Grumman Road Landfill

Operator Name: Toby Johnson

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.3 ft Total Depth: 63.3 ft Initial Depth to Water: 22.96 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 13.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 23.28 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sunny, sampled at 1540

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/1/2023 2:45 PM	00:00	6.09 pH	27.25 °C	183.96 µS/cm	1.73 mg/L	33.10 NTU	86.5 mV	22.96 ft	250.00 ml/min
2/1/2023 2:50 PM	05:00	6.17 pH	22.82 °C	229.95 µS/cm	0.24 mg/L	6.82 NTU	66.0 mV	24.60 ft	250.00 ml/min
2/1/2023 2:55 PM	10:00	6.15 pH	22.84 °C	262.65 µS/cm	0.17 mg/L	6.02 NTU	66.2 mV	24.80 ft	250.00 ml/min
2/1/2023 3:00 PM	15:00	6.16 pH	22.95 °C	254.47 µS/cm	0.15 mg/L	3.32 NTU	63.3 mV	24.90 ft	250.00 ml/min
2/1/2023 3:05 PM	20:00	6.16 pH	22.94 °C	233.14 µS/cm	0.14 mg/L	3.79 NTU	60.8 mV	24.90 ft	250.00 ml/min
2/1/2023 3:10 PM	25:00	6.15 pH	22.90 °C	217.58 µS/cm	0.14 mg/L	2.80 NTU	58.3 mV	24.90 ft	250.00 ml/min
2/1/2023 3:15 PM	30:00	6.15 pH	22.53 °C	213.63 µS/cm	0.13 mg/L	2.73 NTU	57.1 mV	24.90 ft	250.00 ml/min
2/1/2023 3:20 PM	35:00	6.15 pH	22.64 °C	200.85 µS/cm	0.13 mg/L	2.63 NTU	54.9 mV	24.90 ft	250.00 ml/min
2/1/2023 3:25 PM	40:00	6.16 pH	22.59 °C	193.97 µS/cm	0.12 mg/L	2.34 NTU	53.4 mV	24.90 ft	250.00 ml/min
2/1/2023 3:30 PM	45:00	6.14 pH	22.36 °C	184.25 µS/cm	0.12 mg/L	2.19 NTU	52.6 mV	24.90 ft	250.00 ml/min
2/1/2023 3:35 PM	50:00	6.15 pH	22.50 °C	179.73 µS/cm	0.12 mg/L	2.23 NTU	51.0 mV	24.90 ft	250.00 ml/min
2/1/2023 3:40 PM	55:00	6.16 pH	22.38 °C	179.38 µS/cm	0.12 mg/L	2.60 NTU	50.2 mV	24.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 2:25:05 PM

Project: Grumman Road Landfill

Operator Name: Dever Johnson

Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.3 ft Total Depth: 66.3 ft Initial Depth to Water: 22.68 ft	Pump Type: peri pump Tubing Type: Poly Pump Intake From TOC: 61 ft Estimated Total Volume Pumped: 8.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 35.04 in	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Sample time 1500. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
2/2/2023 2:25 PM	00:00	6.43 pH	24.63 °C	51.29 µS/cm	0.53 mg/L	2.10 NTU	53.2 mV	22.68 ft	250.00 ml/min
2/2/2023 2:30 PM	05:00	6.20 pH	22.81 °C	52.83 µS/cm	0.21 mg/L	1.64 NTU	51.2 mV	24.40 ft	250.00 ml/min
2/2/2023 2:35 PM	10:00	6.17 pH	22.71 °C	53.09 µS/cm	0.19 mg/L	1.53 NTU	49.6 mV	24.40 ft	250.00 ml/min
2/2/2023 2:40 PM	15:00	6.17 pH	22.52 °C	53.98 µS/cm	0.16 mg/L	1.40 NTU	43.7 mV	25.60 ft	250.00 ml/min
2/2/2023 2:45 PM	20:00	6.20 pH	22.35 °C	55.03 µS/cm	0.15 mg/L	1.32 NTU	24.3 mV	25.60 ft	250.00 ml/min
2/2/2023 2:50 PM	25:00	6.22 pH	22.16 °C	57.59 µS/cm	0.15 mg/L	1.42 NTU	11.1 mV	25.60 ft	250.00 ml/min
2/2/2023 2:55 PM	30:00	6.24 pH	21.80 °C	60.09 µS/cm	0.15 mg/L	1.53 NTU	-4.9 mV	25.60 ft	250.00 ml/min
2/2/2023 3:00 PM	35:00	6.23 pH	21.59 °C	60.30 µS/cm	0.14 mg/L	1.67 NTU	-10.3 mV	25.60 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 12:35:08 PM

Project: Grumman Road Landfill

Operator Name: Toby Johnson

Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60.2 ft Total Depth: 70.2 ft Initial Depth to Water: 21.01 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 4.375 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 33.48 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Cloudy, sampled at 1305, KRA-GRL-EB-06

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/2/2023 12:35 PM	00:00	6.07 pH	22.15 °C	56.43 µS/cm	5.51 mg/L	2.34 NTU	184.0 mV	21.01 ft	150.00 ml/min
2/2/2023 12:40 PM	05:00	6.10 pH	21.57 °C	54.43 µS/cm	0.50 mg/L	1.45 NTU	101.0 mV	22.30 ft	150.00 ml/min
2/2/2023 12:45 PM	10:00	6.14 pH	21.46 °C	54.12 µS/cm	0.38 mg/L	4.63 NTU	91.4 mV	22.90 ft	150.00 ml/min
2/2/2023 12:50 PM	15:00	6.16 pH	21.46 °C	53.96 µS/cm	0.30 mg/L	3.23 NTU	86.7 mV	23.40 ft	150.00 ml/min
2/2/2023 12:55 PM	20:00	6.16 pH	21.35 °C	53.95 µS/cm	0.29 mg/L	2.67 NTU	84.1 mV	23.70 ft	150.00 ml/min
2/2/2023 1:00 PM	25:00	6.17 pH	21.48 °C	53.87 µS/cm	0.27 mg/L	1.66 NTU	81.0 mV	23.80 ft	125.00 ml/min
2/2/2023 1:05 PM	30:00	6.19 pH	21.73 °C	54.14 µS/cm	0.25 mg/L	3.83 NTU	78.5 mV	23.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2023 3:29:40 PM

Project: Grumman Road Landfill

Operator Name: A. Schnittker

Location Name: Clifton Seep	Pump Type: Peri. Pump Tubing Type: Poly Estimated Total Volume Pumped: 400 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Sample time 1532. Cloudy 60s. Cloudy, brown, with odor.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/2/2023 3:29 PM	00:00	8.32 pH	21.21 °C	1,021.1 µS/cm	3.61 mg/L	468.00 NTU	42.0 mV		200.00 ml/min
2/2/2023 3:30 PM	01:00	8.30 pH	21.33 °C	1,019.9 µS/cm	2.65 mg/L	470.00 NTU	32.3 mV		200.00 ml/min
2/2/2023 3:31 PM	02:00	8.27 pH	21.38 °C	1,006.3 µS/cm	2.19 mg/L	463.00 NTU	36.0 mV		200.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX A

*Daily Instrument Calibration Logs
January 2023 Monitoring Event*



Daily Instrument Calibration Log

SITE: Grumman Rd Plant Branch
 TECHNICIAN: Dave Johnson
 WATER LEVEL: Solms +
 WATER LEVEL S/N: 530984

INSTRUMENT S/N: 343285
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: PH 4 LOT #: 214708 EXP. DATE: 04/2023
 ID: PH 7 LOT #: 2138010 EXP. DATE: 04/2023
 ID: PH 10 LOT #: 2008056 EXP. DATE: 04/2023
 ID: ORP LOT #: 2114017 EXP. DATE: 04/2023
 ID: conduct LOT #: 265800 EXP. DATE: 06/2023

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/30/23

RDO: 100% sat. = 102.83% **Midday pH check**
 PH: 4.00 = 3.99 7.00 = 7.01 10.00 = 10.02 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1269.7
 ORP (mV) 228 = 233.6

Calibration Date: 1/31/23

RDO: 100% sat. = 97.32% **Midday pH check**
 PH: 4.00 = 3.99 7.00 = 7.09 10.00 = 9.98 7.0 = 7.09
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1094.7
 ORP (mV) 228 = 230.1

Calibration Date: 2/1/23

RDO: 100% sat. = 101.66% **Midday pH check**
 PH: 4.00 = 4.09 7.00 = 6.98 10.00 = 10.12 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1211.3
 ORP (mV) 228 = 234.6

Calibration Date: 2/12/23

RDO: 100% sat. = 103.36% **Midday pH check**
 PH: 4.00 = 4.03 7.00 = 6.99 10.00 = 10.01 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1220.9
 ORP (mV) 228 = 234.2

Calibration Date:

RDO: 100% sat. = **Midday pH check**
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Grumman Rd
 TECHNICIAN: Dever Johnson

INSTRUMENT S/N: 22090 000109
 INSTRUMENT TYPE: Hach
 CAL. SOLUTION: 0 NTU - LOT # DI water EXP. DATE: —
 10 NTU - LOT # 29014204 EXP. DATE: Jan 2024
 20 NTU - LOT # 12231 EXP. DATE: Dec 2023

Calibration Date: 1/30/2023

Calibration Solution	Instrument Reading	
0.0	0.0	NTU
10.0	10.3	NTU
20.0	19.1	NTU

Calibration Date: 1/31/2023

Calibration Solution	Instrument Reading	
0.0	0.0	NTU
10.0	10.0	NTU
20.0	19.9	NTU

Calibration Date: 2/1/2023

Calibration Solution	Instrument Reading	
0.0	0.0	NTU
10.0	9.91	NTU
20.0	20.1	NTU

Calibration Date: 2/2/2023

Calibration Solution	Instrument Reading	
0.0	0.0	NTU
10.0	10.2	NTU
20.0	19.9	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Gyrumman Rd
 TECHNICIAN: A Schmittler
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377860

INSTRUMENT S/N: 884186
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>766870</u>	EXP. DATE: <u>5/24</u>
ID: <u>pH 7</u>	LOT #: <u>161340</u>	EXP. DATE: <u>12/23</u>
ID: <u>pH 10</u>	LOT #: <u>266018</u>	EXP. DATE: <u>7/24</u>
ID: <u>Con</u>	LOT #: <u>266806</u>	EXP. DATE: <u>6/23</u>
ID: <u>ORP</u>	LOT #: <u>21140143</u>	EXP. DATE: <u>4/23</u>
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/31/23

RDO: 100% sat. = 99.19 *Midday pH check*
 PH: 4.00 = 4.01 7.00 = 7.05 10.00 = 10.07 7.0 = 6.99
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1584.5
 ORP (mV) 229.7 = 225.8

Calibration Date: 2/1/23

RDO: 100% sat. = 102.40 *Midday pH check*
 PH: 4.00 = 3.99 7.00 = 7.04 10.00 = 9.98 7.0 = 7.01
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1483.8
 ORP (mV) 228.5 = 240.2

Calibration Date: 2/2/23

RDO: 100% sat. = 99.93 *Midday pH check*
 PH: 4.00 = 3.98 7.00 = 7.02 10.00 = 10.00 7.0 = 7.00
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1460.1
 ORP (mV) 228 = 234.8

Calibration Date:

RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Gronman Rd
TECHNICIAN: A Schnittker

INSTRUMENT S/N: Hach 2100 Q
INSTRUMENT TYPE: 2207D 0004B
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI Water
10 NTU - LOT # A2264 EXP. DATE: 1/24
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 1/31/23

Calibration Solution	Instrument Reading	
0.0	0.41	NTU
10.0	10.20	NTU
20.0	20.1	NTU

Calibration Date: 2/1/23

Calibration Solution	Instrument Reading	
0.0	0.65	NTU
10.0	10.1	NTU
20.0	20.6	NTU

Calibration Date: 2/02/23

Calibration Solution	Instrument Reading	
0.0	0.28	NTU
10.0	9.98	NTU
20.0	20.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant McIntosh LF3 / Grumman
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 965658
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: Cond LOT #: 26E994 EXP. DATE: 5/23
 ID: pH 10 LOT #: 266018 EXP. DATE: 7/24
 ID: pH 7 LOT #: 266042 EXP. DATE: 7/24
 ID: pH 4 LOT #: 166617 EXP. DATE: 11/23
 ID: ORP LOT #: 26I200 EXP. DATE: 6/23
 ID: _____ LOT #: _____ EXP. DATE: _____
 ID: _____ LOT #: _____ EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 11/31/23
 RDO: 100% sat. = 108.35 Midday pH check
 PH: 4.00 = 4.09 7.00 = 7.14 10.00 = 10.20 7.0 = 6.99
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1316.3
 ORP (mV) 240 = 227.5

Calibration Date: 2/1/23 → Grumman / LF3
 RDO: 100% sat. = 98.67 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.04 10.00 = 10.06 7.0 = 7.01
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1269.5
 ORP (mV) 240 = 238.9

Calibration Date: 2/2/23 → Grumman
 RDO: 100% sat. = 101.73 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.03 10.00 = 10.06 7.0 = 7.00
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1203.3
 ORP (mV) 240 = 239.7

Calibration Date: _____
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant McIntosh LF3 / Grumman
TECHNICIAN: Toby Johnson

INSTRUMENT S/N: 11090C012353
INSTRUMENT TYPE: Hach 2100 Q
CAL. SOLUTION: 0 NTU - LOT # P.I Water EXP. DATE: New
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2124 EXP. DATE: 8/23

Calibration Date: 1/31/23

Calibration Solution	Instrument Reading	
0.0	<u>0.27</u>	NTU
10.0	<u>10.3</u>	NTU
20.0	<u>21.0</u>	NTU

Calibration Date: 2/1/23 → Grumman/LF3

Calibration Solution	Instrument Reading	
0.0	<u>0.19</u>	NTU
10.0	<u>9.91</u>	NTU
20.0	<u>20.2</u>	NTU

Calibration Date: 2/2/23 → Grumman

Calibration Solution	Instrument Reading	
0.0	<u>0.17</u>	NTU
10.0	<u>9.97</u>	NTU
20.0	<u>19.7</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: McIntosh LF3 / Grumman
 TECHNICIAN: J. B. ...
 WATER LEVEL: Solast
 WATER LEVEL S/N: 207301

INSTRUMENT S/N: 965678
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: pH 4 LOT #: 1612617 EXP. DATE: 11/23
 ID: pH 7 LOT #: 266012 EXP. DATE: 7/24
 ID: pH 10 LOT #: 161458 EXP. DATE: 6/23
 ID: Cal LOT #: 261306 EXP. DATE: 2/23
 ID: ORP LOT #: 266759 EXP. DATE: 4/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/30/23

RDO: 100% sat. = 99.4 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.04 10.00 = 10.05 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1203
 ORP (mV) 240 = 237.4

Calibration Date: 1/31/23

RDO: 100% sat. = 102.9 Midday pH check
 PH: 4.00 = 4.04 7.00 = 7.11 10.00 = 10.05 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1286
 ORP (mV) 246 = 235

Calibration Date: 2/1/2023 → LF3 / Grumman

RDO: 100% sat. = 101.3 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.04 10.00 = 9.96 7.0 = 7.03
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1201
 ORP (mV) 240 = 237.3

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: McJannet LF3
TECHNICIAN: J. Ryan

INSTRUMENT S/N: 22080D000803
INSTRUMENT TYPE: HACH 2100Q
CAL. SOLUTION: 0 NTU - LOT # PJ 40 EXP. DATE: N/A
10 NTU - LOT # A 2075 EXP. DATE: 7/23
20 NTU - LOT # A 2200 EXP. DATE: 11/23

Calibration Date: 1/30

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	10.1	NTU
20.0	20.1	NTU

Calibration Date: 1/31/23

Calibration Solution	Instrument Reading	
0.0	0.20	NTU
10.0	10.1	NTU
20.0	19.9	NTU

Calibration Date: 2/1/23

Calibration Solution	Instrument Reading	
0.0	0.18	NTU
10.0	9.18	NTU
20.0	19.3	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

APPENDIX A

*Well Inspection Forms
January 2023 Monitoring Event*

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

1 - Location/Identification		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

2 - Protective Outer Casing		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

3 - Surface Pad		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

4 - Internal Well Casing		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

5 - Sampling (Groundwater Monitoring Wells Only):

		GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	N/A	No	No	No

NOTE: N/A - Not Applicable
Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWA-7	GWA-8	GWB-4R	GWB-5R	GWC-6R	GWC-1	GWC-2	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

7 - Corrective actions completed and Notes:

GWC-10 - Cable line hanging onto well pad.

Staff: A. Schnittker

Date: 1/31/2023

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

1 - Location/Identification		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

2 - Protective Outer Casing		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

3 - Surface Pad		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

4 - Internal Well Casing		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

5 - Sampling (Groundwater Monitoring Wells Only):

		GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	Yes	No	No	No	No	No	No	N/A	N/A

NOTE: N/A - Not Applicable
Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Grumman Road Landfill
January 2023 Well Inspection Form**



Permit No.: 025-061D(LI)

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22	MW-23D	MW-24D	MW-25D	MW-26D	MW-27D
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

7 - Corrective actions completed and Notes:

Staff: A. Schnittker

Date: 1/31/2023

APPENDIX B

Survey Data

**Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report**



141 Railroad Street, Suite 116
 Canton, Georgia 30114
 www.gunninsurvey.com

DATE: March 23, 2023

TO: Atlantic Coastal Consulting, Inc
 1150 Northmeadow Parkway
 Suite 100
 Roswell, GA 30076

ATTN: Monte Jones of Atlantic Coastal Consulting

SUBJECT: Grumman Road Landfill: 2023 Monitoring Well Survey

The following data has been established on the monitoring wells using the North American Datum of 1983 (HARN) – State Plane Coordinate System of Georgia-East Zone. The vertical reference frame is North American Datum of 1988. Wells were surveyed to the following tolerances: 0.01’ vertical and 0.5’ horizontal via conventional survey methods, Global Positioning Systems, and traditional level loops. Each well was cross-checked for horizontal and vertical accuracy.

WELL ID	NORTHING	EASTING	ELEVATION	ELEVATION	ELEVATION
	NAIL	NAIL	NAIL	TOP OF CASE	TOP OF PVC
GWC-2	779433.23	960360.53	47.44	51.25	51.22
GWB-5R	780293.66	960693.28	44.72	47.46	47.21
GWB-6R	780572.76	960617.28	44.13	47.14	46.99
GWC-13	779737.50	960276.20	44.77	47.84	47.68
GWC-14	779112.24	960431.34	47.22	50.30	50.06
GWC-15	778948.56	960666.68	44.73	47.67	47.36
GWC-16	779034.89	960963.23	44.34	47.44	47.29
MW-23D	779279.75	960955.66	46.51	49.71	49.46
MW-24D	779042.22	960971.12	44.67	47.99	47.86
MW-25D	778944.28	960654.43	44.70	47.78	47.67
MW-26D	779993.34	960774.89	45.77	48.92	48.72
MW-27D	779558.89	960874.59	47.06	50.00	49.80



WELL ID	NORTHING	EASTING	ELEVATION	ELEVATION	ELEVATION
	TOP OF CASE	TOP OF CASE	CONCRETE PAD	TOP OF CASE	TOP OF PVC
GWC-1	779573.38	960870.73	46.49	49.92	49.72
GWB-4R	779975.18	960777.56	46.17	49.72	49.04
GWA-7	780887.38	960560.31	43.97	47.10	46.58
GWA-8	781167.00	960460.57	43.51	46.86	46.20
GWC-9	781006.70	959961.26	42.98	46.82	46.57
GWC-10	780703.08	960037.03	44.05	47.19	46.77
GWC-11	780352.21	960122.47	45.35	49.08	48.81
GWC-12	780098.49	960182.06	43.74	47.17	46.89
GWC-17	781419.25	960048.28	40.82	43.86	43.60
GWC-20	779293.82	960956.67	46.22	49.47	49.43
GWC-21	779030.28	960948.11	44.10	47.20	47.18
GWC-22	780712.09	960063.85	43.21	46.46	46.25

WELL ID	NORTHING	EASTING	ELEVATION
	INVERT PIPE	INVERT PIPE	INVERT PIPE
SWC-1	779026.30	961044.00	31.85

Sincerely yours,

Gunnin Land Surveying, LLC.



Jesse R. Gunnin, L.S. Principal Surveyor

APPENDIX C

Statistical Analysis Reports

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Annual Groundwater Monitoring and Corrective Action Report

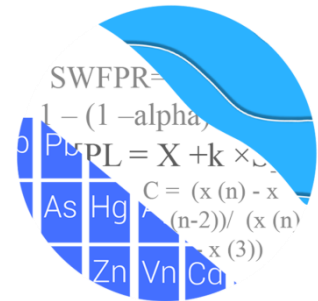
APPENDIX C

*Statistical Analysis Reports
August 2022 Monitoring Event*

GROUNDWATER STATS CONSULTING

February 28, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Kraft's Grumman Road Landfill
Statistical Analysis – August/September 2022 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the groundwater statistical analysis of the August/September 2022 sample event for Georgia Power Company's Plant Kraft's Grumman Road Landfill. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed at most wells for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-7 and GWA-8
- **Downgradient wells:** GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-2, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
- **Assessment wells:** MW-23D, MW-24D, and MW-25D

Assessment wells were installed in late 2020 and were first sampled in early 2021 for all constituents except mercury, which was first sampled in September 2021. These assessment wells currently have limited samples available; however, data are evaluated

with confidence intervals for well/constituent pairs when a minimum of four observations are available. Note that sampling has ceased at assessment wells MW-26D and MW-27D; therefore, no analysis was required.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The program monitors the constituents listed below. Georgia EPD Appendix II and CCR Appendix IV constituents overlap with the exception of vanadium and zinc, which are required for Georgia EPD. The terms "parameters" and "constituents" are used interchangeably throughout.

- **Georgia EPD Appendix I** (Detection Monitoring) – antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc
- **CCR Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix II/CCR Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for all parameters at each well are provided for the purpose of screening data at these wells (Figure A). Additionally, time series plots of all parameters at upgradient wells are included to more easily display concentrations upgradient of the facility (Figure A). 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Due to varying detection limits in background data sets as a result of improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. Of particular note is the reporting limits for metals at upgradient well GWA-7. Due to higher dilutions required for some metal analyses for this well, the reporting limits may vary

between sampling events and are sometimes considerably higher than corresponding reporting limits for other wells. In the case of cobalt, a high reporting limit of 0.025 mg/L was observed during the 1st SA 2022 analysis for well GWA-7, but the most recent reporting limit of 0.001 mg/L was substituted in order to maintain conservative (i.e., lower) statistical limits. On the other hand, some detected observations are recorded at extremely low concentrations for this well, below the MCL of 0.01 mg/L for arsenic, as an example. Therefore, the most recent reporting limit substitution of 0.005 mg/L is used for this well as for all other wells.

Data at all wells were originally evaluated during 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. However, interwell methods are currently implemented in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells. Power curves were provided along with the previous screening and demonstrated that the selected statistical methods 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.

Summary of Statistical Methods – Detection Monitoring

Georgia EPD Appendix I Constituents:

Semi-Annual Sampling

Interwell Prediction Limits with 1 of 2 resample plan

Constituents Downgradient: 8

Downgradient wells: 16

CCR Appendix III Constituents:

Semi-Annual Sampling

Interwell Prediction Limits with 1 of 2 resample plan

Constituents Downgradient: 7

Downgradient wells: 16

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 false positive rate associated with the parametric limits is based on an annual rate of 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background

sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits, along with the following methodology for handling non-detects:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory. Due to varying detection limits, the following substitution of 0.03 mg/L was made for lithium.
- 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 interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Summary of Background Screening – Georgia EPD Appendix I Constituents – Conducted in August 2019

Outlier Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey's box plot method, several outliers were identified. A summary of those findings was submitted with the August 2019 report. As a general rule, when the most recent values are identified as outliers, values are not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Additionally, values that were not identified by Tukey's test but that are much higher than the remaining measurements were flagged as appropriate in order to obtain conservative prediction limits that are capable of detecting future changes. As mentioned above, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Testing

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. This step would apply to upgradient wells GWA-7 and GWA-8 only since pooled data from these wells are used to

construct interwell prediction limits. While this was not required, when any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. A summary of the trend analyses was submitted with the screening report.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for all constituents which would suggest intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Summary of Background Screening – CCR Appendices III and IV Parameters – Conducted in March 2019

Outlier and Trend Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. A summary of those findings was included with the screening report. When the most recent values are identified as outliers, values were not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will

be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported non-detects. A summary of all flagged values follows this letter (Figure C).

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

The results of the Sen's Slope/Mann Kendall trend analyses showed a number of statistically significant increasing and decreasing trends for the Appendix III parameters. Most of the statistically significant trends identified, particularly those in upgradient wells GWA-7 and GWA-8 from which data are used in construction of the interwell prediction limits, were relatively low in magnitude when compared to average concentrations. Also, the background period was short in 2019, making it difficult to determine whether an apparent trend represents a long-term change or simply normal year-to-year variation; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The ANOVA identified no variation among upgradient well data for fluoride, making interwell analyses the most appropriate statistical method for this constituent. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS which suggests the use of intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Statistical Analysis of Georgia EPD Appendix I Constituents – August/September 2022

All Appendix I parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed from carefully screened pooled upgradient well data through September 2022 for antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc (Figure D). The August/September 2022 sample at each downgradient well is compared to these background limits.

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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed. A summary table and complete graphical results of the interwell prediction limits follow this letter and include a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, and GWC-20

Trend Tests – Appendix I Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient well data 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. When trends are present in upgradient wells it is an indication of natural variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing Trends:

- Arsenic: GWC-15

Decreasing Trends:

- Arsenic: GWA-7 and GWA-8 (both upgradient)

Note that while the trend test identified statistically significant decreasing trends for arsenic in upgradient well GWA-8, the slope is displayed as zero which represents the median slopes of all the possible pairwise slopes. The zero median slopes result from the large number of non-detects in the record, and the negative test statistics result from a few trace values being recorded in the latter part of the records. Both a summary and complete graphical presentation of the trend test results follow this letter.

Statistical Analysis of CCR Appendix III Parameters – August/September 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using pooled upgradient well data through September 2022 to develop background limits for boron, calcium, chloride, fluoride, pH, sulfate, and TDS (Figure F). 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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. The August/September 2022 sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Summary tables of the prediction limits follow this letter. Exceedances were identified for the following well/constituent pairs:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12 (lower limit) and GWC-15 (upper limit)

- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, and GWC-21

Trend Tests – Appendix III Exceedances

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen’s Slope/Mann Kendall trend test 99% confidence level along with upgradient wells for the same constituents (Figure G). 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. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-16, and GWC-20
- Sulfate: GWB-5R, GWB-6R, GWC-11, and GWC-16

Decreasing trends:

- Calcium: GWA-7 (upgradient) and GWC-12
- Chloride: GWA-7 (upgradient)
- Fluoride: GWA-8 (upgradient)
- pH: GWA-7 (upgradient)
- Sulfate: GWA-7, GWA-8 (both upgradient), and GWC-12

Statistical Analysis of Georgia EPD Appendix II and CCR Appendix IV – August/September 2022

For Appendix II and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix II and IV parameters are reassessed for outliers during each analysis. A historically high reporting limit of 0.025 mg/L for cobalt at upgradient well GWA-7 was flagged in order to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective and are more representative of present-day groundwater quality conditions. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits (UTLs) are calculated using Sanitas software, from all historical pooled upgradient well data for Appendix II and IV constituents (Figure H). The UTLs serve as site-specific background limits for each constituent. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution, i.e., fluoride and lead. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits are used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix II and IV constituents for this sample event (Figure I).

Confidence Intervals

To complete the statistical comparison of current sampling data to GWPS, confidence intervals were constructed using Sanitas software using data from 2016 through the present for each of the Appendix II and IV constituents in each downgradient well (Figure J). As mentioned above, any well/constituent pairs containing 100% non-detects since 2016 were not required for statistical analyses. The confidence intervals were then compared to the GWPS as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level

(SSL) exceedance is identified. A summary of the confidence intervals follows this letter and exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWC-16 and GWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure K). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- Arsenic: GWC-15

Decreasing trends:

- None

SUMMARY

Based on the statistical analyses described in this letter, the following statistical exceedances were noted:

Prediction Limits (Detection Monitoring Parameters)

Georgia EPD Appendix I:

- Arsenic: GWC-15, GWC-16, and GWC-20

CCR Appendix III:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12 (lower limit) and GWC-15 (upper limit)
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, and GWC-21

Confidence Intervals (Assessment Monitoring Parameters)

Georgia EPD Appendix II and CCR Appendix IV:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWC-16 and GWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Kraft's Grumman Road 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

100% Non-Detects: Appendix I Downgradient

Analysis Run 9/28/2022 10:38 AM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Arsenic (mg/L)
GWC-11

Selenium (mg/L)
GWC-13

100% Non-Detects: Appendix II & IV Downgradient & Assessment

Analysis Run 11/5/2022 5:57 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Antimony (mg/L)

GWC-14, GWC-16, MW-23D, MW-24D, MW-25D

Arsenic (mg/L)

GWC-11, MW-23D, MW-24D

Beryllium (mg/L)

GWC-1, GWC-15, GWC-20, GWC-21, MW-23D, MW-24D

Cadmium (mg/L)

GWB-5R, GWB-6R, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-2, GWC-21, GWC-9, MW-24D

Chromium (mg/L)

MW-23D

Cobalt (mg/L)

GWC-1, GWC-13, GWC-15, GWC-16, GWC-20, GWC-21, MW-23D, MW-24D, MW-25D

Fluoride (mg/L)

GWC-11, MW-24D

Lithium (mg/L)

GWB-6R, GWC-1, GWC-11, GWC-14, GWC-15, GWC-16, GWC-2, GWC-20, GWC-21, GWC-22, MW-23D, MW-24D, MW-25D

Molybdenum (mg/L)

GWC-2, GWC-22, GWC-9, MW-23D

Selenium (mg/L)

GWC-13, GWC-9, MW-23D, MW-24D, MW-25D

Thallium (mg/L)

GWB-6R, GWC-13, GWC-15, GWC-20, GWC-9, MW-23D, MW-24D, MW-25D

Vanadium (mg/L)

MW-23D

Appendix I Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	8/31/2022	0.259	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/1/2022	0.0987	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	8/30/2022	0.465	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/30/2022	0.0049J	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/30/2022	0.00253J	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/30/2022	0.00716	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	9/1/2022	0.00568	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	8/31/2022	0.259	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/1/2022	0.0987	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	8/30/2022	0.465	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	8/30/2022	0.0271	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.22	n/a	8/30/2022	0.134	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-5R	0.22	n/a	8/30/2022	0.051	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-6R	0.22	n/a	8/30/2022	0.0266	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-1	0.22	n/a	9/1/2022	0.0583	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-11	0.22	n/a	8/31/2022	0.115	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-12	0.22	n/a	8/30/2022	0.0275	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-13	0.22	n/a	8/31/2022	0.0379	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-14	0.22	n/a	8/30/2022	0.0773	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-15	0.22	n/a	8/31/2022	0.055	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-16	0.22	n/a	9/1/2022	0.165	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-17	0.22	n/a	8/31/2022	0.0375	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.22	n/a	9/1/2022	0.0508	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-20	0.22	n/a	8/30/2022	0.21	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-21	0.22	n/a	8/30/2022	0.191	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-22	0.22	n/a	8/31/2022	0.0741	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-9	0.22	n/a	9/1/2022	0.151	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/30/2022	0.00356J	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-15	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/30/2022	0.00265J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/30/2022	0.00277J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	9/1/2022	0.00252J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	8/31/2022	0.00344J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	8/30/2022	0.00544	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	8/31/2022	0.00192J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	9/1/2022	0.00334J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	8/30/2022	0.00192J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	8/30/2022	0.00648	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	8/30/2022	0.00943J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	8/30/2022	0.0138J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	8/30/2022	0.0192J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	9/1/2022	0.00748J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	8/31/2022	0.00481J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	8/30/2022	0.00949J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	8/31/2022	0.02ND	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	8/30/2022	0.00933J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	8/31/2022	0.00476J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	9/1/2022	0.0065J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	8/31/2022	0.00599J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	9/1/2022	0.0045J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	8/30/2022	0.00647J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	8/30/2022	0.00715J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	8/31/2022	0.00396J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	9/1/2022	0.00514J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWB-4R	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/30/2022	0.0132J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	9/1/2022	0.00578J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	8/31/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	8/30/2022	0.0262	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/31/2022	0.0266	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	8/31/2022	0.00395J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	9/1/2022	0.0119J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/31/2022	0.0068J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	9/1/2022	0.0125J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	8/30/2022	0.0171J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	8/30/2022	0.00814J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/31/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	9/1/2022	0.0163J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2

Appendix I Trend Tests - Prediction Limit Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0004514	-4.07	-2.58	Yes	53	56.6	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.799	-2.58	Yes	74	91.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005378	8.362	2.58	Yes	54	46.3	n/a	n/a	0.01	NP

Appendix I Trend Tests - Prediction Limit Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0004514	-4.07	-2.58	Yes	53	56.6	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.799	-2.58	Yes	74	91.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005378	8.362	2.58	Yes	54	46.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.000927	-2.349	-2.58	No	73	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.009885	118	167	No	33	3.03	n/a	n/a	0.01	NP

Appendix III Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	8/30/2022	79.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/30/2022	70.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/30/2022	81.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	9/1/2022	46.9	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/31/2022	115	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/30/2022	70.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/30/2022	144	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/31/2022	135	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/1/2022	255	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/31/2022	102	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/30/2022	193	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/30/2022	131	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/31/2022	694	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.4247	n/a	8/31/2022	0.442	Yes	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-12	6.43	4.23	8/30/2022	3.92	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	8/31/2022	6.57	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/30/2022	379	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/30/2022	403	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/30/2022	978	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	8/31/2022	653	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	8/30/2022	415	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	8/30/2022	410	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/1/2022	1140	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/31/2022	721	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	8/30/2022	606	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	8/30/2022	451	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/30/2022	4.95	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/30/2022	4.66	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/30/2022	7.13	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	9/1/2022	0.728	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	8/31/2022	1.65	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	8/30/2022	8.21	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/31/2022	0.231	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	8/30/2022	0.046	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	8/31/2022	0.719	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	9/1/2022	15.9	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	8/31/2022	2.51	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	9/1/2022	0.0204	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	8/30/2022	8.14	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	8/30/2022	5.08	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/31/2022	0.271	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	9/1/2022	0.0187	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/30/2022	79.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/30/2022	70.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/30/2022	81.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	9/1/2022	46.9	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/31/2022	115	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/30/2022	70.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	8/31/2022	2.54	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/30/2022	144	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/31/2022	135	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/1/2022	255	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/31/2022	102	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	9/1/2022	0.236	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/30/2022	193	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/30/2022	131	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/31/2022	23.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	9/1/2022	5	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/30/2022	65	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/30/2022	76.8	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/30/2022	52	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	9/1/2022	9.17	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	8/31/2022	110	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	8/30/2022	58.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/31/2022	6.69	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	8/30/2022	26.7	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	8/31/2022	4.83	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	9/1/2022	57.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/31/2022	694	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	9/1/2022	6.59	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	8/30/2022	24.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	8/30/2022	29.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/31/2022	51.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	9/1/2022	17.6	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-5R	0.4247	n/a	8/30/2022	0.0428J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-6R	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-1	0.4247	n/a	9/1/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-11	0.4247	n/a	8/31/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-12	0.4247	n/a	8/30/2022	0.273	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-13	0.4247	n/a	8/31/2022	0.051J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-14	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 11:11 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.6724	-93	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.74	86	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	10.79	85	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	5.768	83	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	6.631	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	16.98	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-10.48	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.5	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	31.64	64	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-22.35	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01163	-79	-74	Yes	19	15.79	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.05	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-3.991	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.42	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	57.5	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	98.19	96	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	91.12	86	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-130.7	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	114.5	88	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 11:11 AM

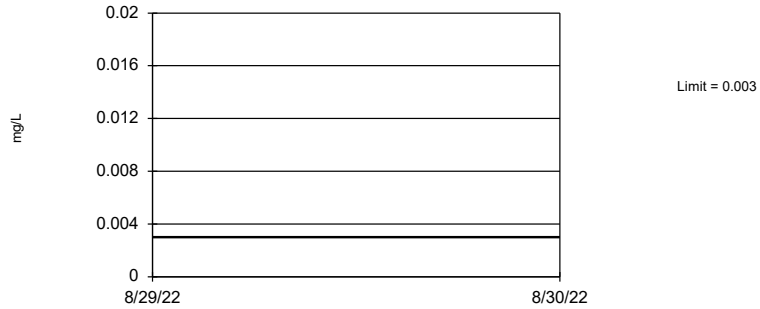
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.6724	-93	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-0.485	-13	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.74	86	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	10.79	85	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	5.768	83	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	6.631	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	16.98	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-10.48	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.68	8	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.953	15	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.5	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-3.105	-18	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	31.64	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	16.62	57	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-22.35	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.1945	-17	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-61.65	-37	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.004548	-23	-74	No	19	31.58	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01163	-79	-74	Yes	19	15.79	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1299	-65	-74	No	19	5.263	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.05	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.02069	35	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	-0.007247	-14	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04875	39	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-3.991	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.42	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	4.182	18	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	57.5	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	98.19	96	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	91.12	86	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-130.7	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-30.55	-34	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	114.5	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	-8.669	-7	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	112.8	42	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	25.95	49	63	No	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 9:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	127	n/a	n/a	95.28	n/a	n/a	0.001482	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0287	n/a	n/a	n/a	n/a	127	n/a	n/a	77.17	n/a	n/a	0.001482	NP Inter(NDs)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	125	n/a	n/a	0	n/a	n/a	0.001642	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0017	n/a	n/a	n/a	n/a	47	n/a	n/a	51.06	n/a	n/a	0.08974	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	45	n/a	n/a	95.56	n/a	n/a	0.09944	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	n/a	n/a	n/a	126	n/a	n/a	61.9	n/a	n/a	0.00156	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0102	n/a	n/a	n/a	n/a	45	n/a	n/a	48.89	n/a	n/a	0.09944	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	12.22	n/a	n/a	n/a	n/a	31	1.952	0.6987	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.4072	n/a	n/a	n/a	n/a	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.05	Inter
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	123	n/a	n/a	75.61	n/a	n/a	0.00182	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	34	n/a	n/a	73.53	n/a	n/a	0.1748	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	28	n/a	n/a	82.14	n/a	n/a	0.2378	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0098	n/a	n/a	n/a	n/a	34	n/a	n/a	88.24	n/a	n/a	0.1748	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	n/a	n/a	n/a	127	n/a	n/a	83.46	n/a	n/a	0.001482	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.425	n/a	n/a	n/a	n/a	121	n/a	n/a	61.98	n/a	n/a	0.002016	NP Inter(NDs)
Zinc (mg/L)	n/a	0.16	n/a	n/a	n/a	n/a	119	n/a	n/a	28.57	n/a	n/a	0.002234	NP Inter(normality)

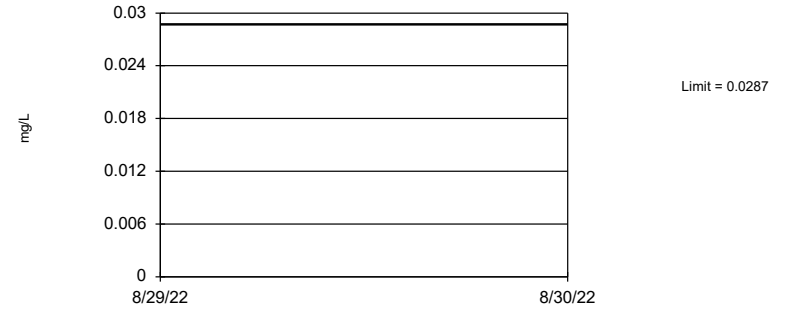
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 95.28% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Antimony Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

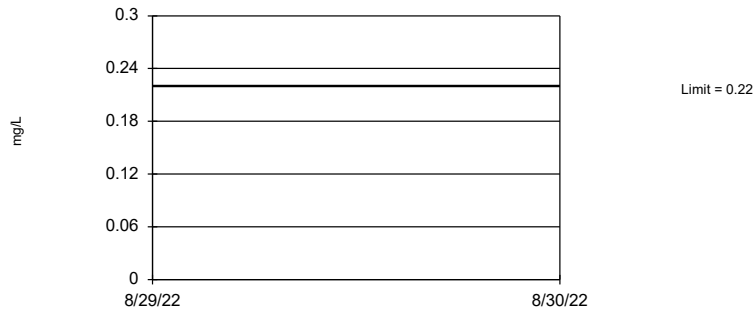
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 77.17% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Arsenic Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

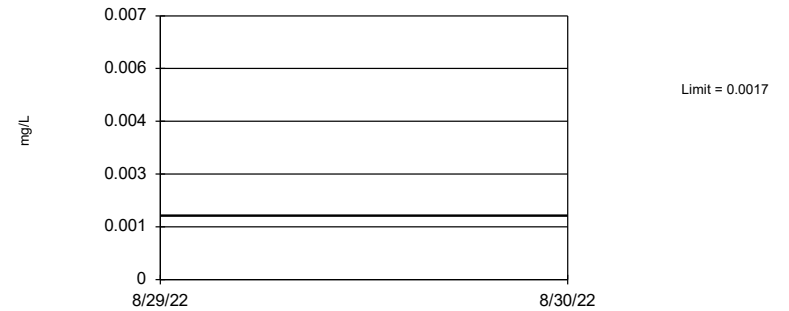
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 125 background values. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001642.

Constituent: Barium Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

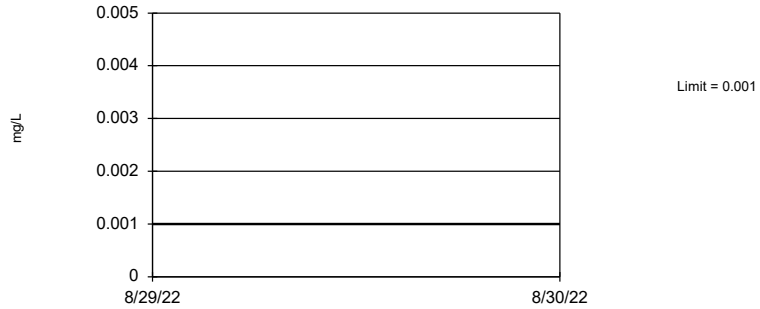
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 47 background values. 51.06% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08974.

Constituent: Beryllium Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

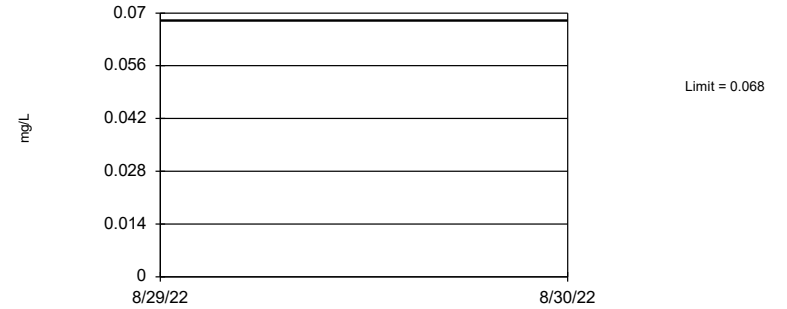
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 45 background values. 95.56% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09944.

Constituent: Cadmium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 126 background values. 61.9% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00156.

Constituent: Chromium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. 48.89% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09944.

Constituent: Cobalt Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on square root transformation): Mean=1.952, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9115, critical = 0.902. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

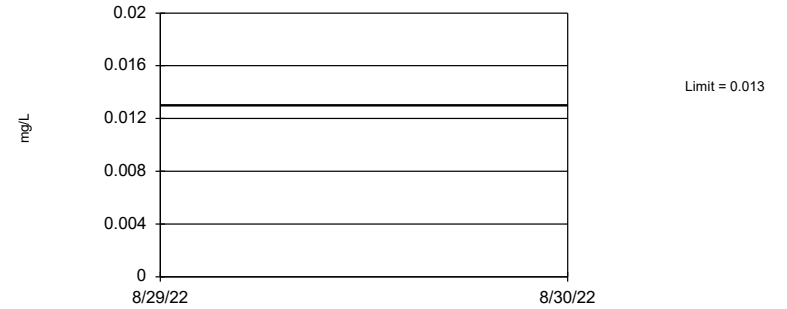
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.348, Std. Dev.=0.6768, n=38, 23.68% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9171, critical = 0.916. Report alpha = 0.05.

Constituent: Fluoride Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 123 background values. 75.61% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00182.

Constituent: Lead Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

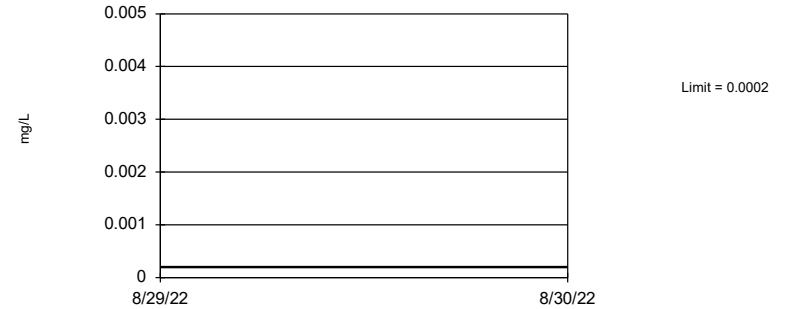
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 73.53% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Lithium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

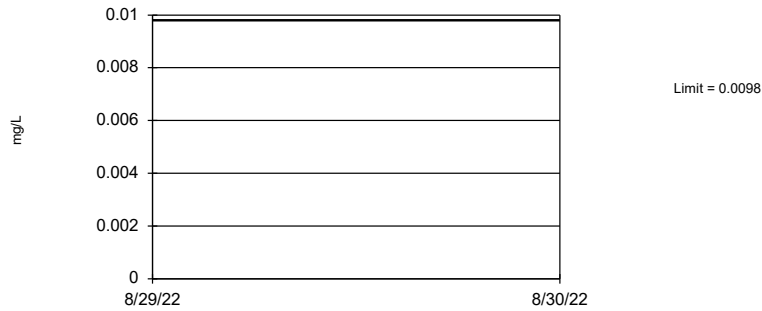
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 82.14% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Mercury Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

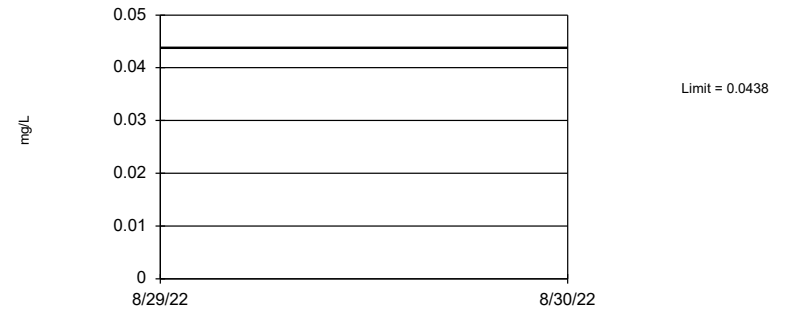
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 88.24% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Molybdenum Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 83.46% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Selenium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

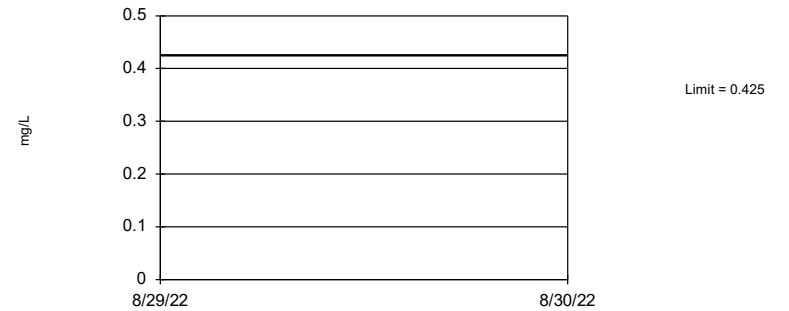
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 66 background values. 93.94% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Thallium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 121 background values. 61.98% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002016.

Constituent: Vanadium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 28.57% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Zinc Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

GRUMMAN ROAD LANDFILL GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.029	0.029
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		12.22	12.22
Fluoride, Total (mg/L)	4		0.41	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.43	0.43
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.176	0.08366	0.029	Yes	21	0.1298	0.08372	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08264	0.06341	0.029	Yes	22	0.07303	0.01792	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3604	0.2763	0.029	Yes	21	0.3184	0.07621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2078	0.1293	0.1	Yes	17	0.1686	0.06266	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3536	0.137	0.1	Yes	17	0.2629	0.1946	0	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	21	0.002673	0.0008364	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	21	0.002756	0.0007715	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	21	0.002583	0.0009051	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0006	0.006	No	21	0.00186	0.00123	52.38	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	21	0.002886	0.0005237	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	21	0.002943	0.0002619	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.0014	0.006	No	21	0.0028	0.000653	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	21	0.002852	0.0004686	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	21	0.002836	0.0005552	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	21	0.002873	0.0005826	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	21	0.00253	0.0009363	76.19	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	21	0.002806	0.0006442	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003338	0.002047	0.029	No	21	0.002693	0.00117	9.524	None	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.001983	0.001062	0.029	No	21	0.002535	0.001726	23.81	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.004092	0.001557	0.029	No	21	0.003714	0.002361	23.81	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GWC-1	0.00526	0.002364	0.029	No	20	0.004764	0.00551	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	21	0.004233	0.001628	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	21	0.004461	0.001397	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002219	0.001636	0.029	No	22	0.002615	0.001262	18.18	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.176	0.08366	0.029	Yes	21	0.1298	0.08372	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08264	0.06341	0.029	Yes	22	0.07303	0.01792	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	21	0.002853	0.00192	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	21	0.004378	0.001565	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3604	0.2763	0.029	Yes	21	0.3184	0.07621	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0059	0.0029	0.029	No	21	0.006271	0.006103	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0011	0.029	No	21	0.00336	0.001997	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	21	0.004802	0.0009078	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	5	0.004184	0.001825	80	None	No	0.031	NP (NDs)
Barium (mg/L)	GWB-4R	0.098	0.076	2	No	21	0.09233	0.02394	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1426	0.0869	2	No	21	0.1184	0.05621	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.014	2	No	21	0.0674	0.04169	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05704	0.05117	2	No	21	0.0541	0.005314	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1216	0.07385	2	No	21	0.09771	0.04325	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.023	0.017	2	No	21	0.01983	0.004585	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02905	0.02171	2	No	21	0.02538	0.006658	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.025	2	No	22	0.04429	0.02732	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05018	0.04022	2	No	21	0.0452	0.009027	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1648	0.07656	2	No	20	0.1207	0.07768	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.1004	0.04728	2	No	21	0.0791	0.05487	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.05	2	No	20	0.05294	0.007254	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.2024	0.1006	2	No	21	0.1746	0.1195	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1145	0.05692	2	No	21	0.09323	0.06186	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.09072	0.0587	2	No	21	0.07471	0.02902	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2461	0.1791	2	No	21	0.2126	0.06074	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.079	0.076	2	No	4	0.07688	0.001436	0	None	No	0.0625	NP (normality)
Barium (mg/L)	MW-24D	0.05583	0.01802	2	No	4	0.03693	0.008328	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03304	0.01676	2	No	4	0.0249	0.003583	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	17	0.0003765	0.0001855	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0001657	0.00008436	0.004	No	17	0.0002436	0.000165	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	17	0.0004468	0.0001501	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	17	0.0004734	0.0001099	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007522	0.0005148	0.004	No	17	0.0006514	0.0002157	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	17	0.000474	0.0001072	94.12	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	17	0.0004266	0.0001636	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	17	0.000255	0.0002116	41.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.00262	0.001628	0.004	No	17	0.002181	0.0008605	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.000088	0.004	No	18	0.0003709	0.0001944	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.00009	0.004	No	17	0.0003433	0.0001961	58.82	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	17	0.0002529	0.00008122	5.882	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	4	0.000396	0.000208	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.0002	0.005	No	17	0.0007988	0.0003748	76.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	17	0.0008924	0.0003039	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0006077	0.000276	0.005	No	17	0.0004418	0.0002647	5.882	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.00017	0.005	No	17	0.0006582	0.0004219	58.82	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.0002	0.005	No	17	0.0008535	0.0003264	82.35	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	17	0.0005324	0.0004155	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	4	0.0008175	0.000365	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	GWB-4R	0.0101	0.0022	0.1	No	21	0.006514	0.004437	4.762	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-5R	0.003715	0.001047	0.1	No	21	0.008143	0.01523	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006407	0.002325	0.1	No	21	0.005174	0.005004	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0024	0.0017	0.1	No	21	0.002929	0.002547	9.524	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00091	0.1	No	21	0.004813	0.004589	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.0028	0.00091	0.1	No	21	0.003316	0.003853	23.81	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.00077	0.1	No	21	0.006108	0.004612	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0008	0.1	No	22	0.00503	0.004648	45.45	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	21	0.004343	0.004122	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	22	0.005121	0.004563	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	21	0.004262	0.004269	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	21	0.006482	0.004596	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.0009	0.1	No	21	0.004576	0.004398	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.00067	0.1	No	21	0.005583	0.004749	47.62	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	21	0.00597	0.004768	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	21	0.004604	0.00435	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	4	0.007672	0.004655	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	4	0.0079	0.0042	75	None	No	0.0625	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.001418	0.0008127	0.0102	No	17	0.001188	0.0006122	11.76	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GWB-5R	0.00401	0.00056	0.0102	No	17	0.003782	0.005909	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0049	0.00038	0.0102	No	17	0.007993	0.01955	76.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.001	0.000646	0.0102	No	17	0.0008656	0.0002376	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001239	0.000785	0.0102	No	17	0.001012	0.0003624	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.0102	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.005438	0.002894	0.0102	No	17	0.004305	0.002077	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.0102	No	18	0.0008544	0.0002951	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.0102	No	17	0.0009082	0.0001762	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00096	0.0102	No	17	0.00132	0.0004016	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5	2.44	12.22	No	17	3.468	1.248	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.835	2.314	12.22	No	17	3.141	1.362	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.788	2.83	12.22	No	17	3.809	1.562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.147	1.447	12.22	No	17	1.797	0.5585	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.438	3.399	12.22	No	17	4.918	2.425	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.849	1.731	12.22	No	17	2.29	0.8921	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.468	0.8765	12.22	No	17	1.172	0.4722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.467	0.7077	12.22	No	17	1.088	0.6063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.879	1.065	12.22	No	17	1.472	0.6494	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.705	1.753	12.22	No	17	2.279	0.847	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.853	2.7	12.22	No	17	3.276	0.92	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.09	0.725	12.22	No	17	0.8945	0.3858	0	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.759	2.321	12.22	No	17	3.54	1.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.443	1.317	12.22	No	17	1.88	0.8982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.161	3.134	12.22	No	17	4.825	2.333	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.524	2.026	12.22	No	17	2.947	1.554	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.044	0.9313	12.22	No	4	1.488	0.245	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	4.691	-1.605	12.22	No	4	1.543	1.386	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.504	-0.2912	12.22	No	4	0.6065	0.3954	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	19	0.1671	0.26	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.11	0.05	4	No	19	0.0872	0.03977	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.13	0.09	4	No	19	0.1173	0.05903	52.63	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.051	4	No	19	0.1048	0.03827	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.7212	0.2723	4	No	19	0.4968	0.3833	5.263	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	19	0.1181	0.1057	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.25	0.1	4	No	19	0.1674	0.124	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	19	0.1295	0.09513	73.68	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.2	0.1	4	No	19	0.1767	0.2046	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.162	0.5173	4	No	19	0.8964	0.5551	5.263	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.08	4	No	19	0.1233	0.1224	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	19	0.09174	0.02744	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	19	0.09847	0.006653	94.74	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	19	0.09316	0.02358	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2313	0.09769	4	No	19	0.2058	0.2196	10.53	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.1	0.0791	4	No	5	0.09582	0.009347	80	None	No	0.031	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1881	0.04793	4	No	5	0.118	0.04182	0	None	No	0.01	Param.
Lead (mg/L)	GWB-4R	0.004315	0.001028	0.015	No	20	0.003249	0.002759	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	21	0.001221	0.0008915	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	21	0.001118	0.0008882	47.62	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	21	0.001636	0.0007683	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.00042	0.00021	0.015	No	21	0.0006767	0.0007619	23.81	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	21	0.0009953	0.001073	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00013	0.015	No	21	0.001028	0.0008476	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	22	0.001672	0.0007159	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.0001	0.015	No	21	0.00112	0.0009478	52.38	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	22	0.0009847	0.0009495	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00014	0.015	No	21	0.00132	0.0009033	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0002	0.015	No	21	0.001471	0.000859	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	21	0.001553	0.0008197	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.0001	0.015	No	21	0.001286	0.0009331	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007979	0.0002964	0.015	No	21	0.0009176	0.0008104	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.0001	0.015	No	21	0.00122	0.0009321	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	4	0.001514	0.0009715	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	4	0.001524	0.000953	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	4	0.001524	0.0009525	75	None	No	0.0625	NP (NDs)
Lithium (mg/L)	GWB-4R	0.015	0.0042	0.04	No	17	0.009871	0.005	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	17	0.01921	0.01331	58.82	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	17	0.01293	0.01472	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	17	0.02657	0.009691	88.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006758	0.005122	0.04	No	17	0.00594	0.001306	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0022	0.0017	0.04	No	16	0.003662	0.007026	6.25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	14	0.0001821	0.00004666	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	15	0.0001858	0.00003755	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	14	0.0001816	0.00004798	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	14	0.0001814	0.00004865	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	14	0.0001879	0.00003142	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	14	0.0001829	0.00004514	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.13	0.024	0.1	No	17	0.07922	0.05491	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.0012	0.001	0.1	No	17	0.001012	0.00004851	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.0013	0.001	0.1	No	17	0.001081	0.0004098	64.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.146	0.06224	0.1	No	17	0.1041	0.06687	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.0018	0.00077	0.1	No	17	0.001005	0.0002412	82.35	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	17	0.0009532	0.0001928	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	17	0.001271	0.001116	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01488	0.004383	0.1	No	17	0.01072	0.009545	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1091	0.08978	0.1	No	17	0.09946	0.01545	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2078	0.1293	0.1	Yes	17	0.1686	0.06266	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.0038	0.001	0.1	No	17	0.002214	0.001477	47.06	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3536	0.137	0.1	Yes	17	0.2629	0.1946	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05718	0.02102	0.1	No	17	0.0391	0.02886	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.003964	0.000932	0.1	No	5	0.002448	0.0009047	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.001454	0.0006211	0.1	No	5	0.001093	0.0002428	40	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-4R	0.003863	0.0026	0.05	No	21	0.004131	0.001264	42.86	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	21	0.004924	0.0009823	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.005	0.0023	0.05	No	21	0.00617	0.01014	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	21	0.003491	0.004609	9.524	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.007591	0.003421	0.05	No	21	0.007207	0.005946	19.05	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	21	0.004495	0.001084	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004476	0.003098	0.05	No	22	0.003787	0.001284	4.545	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.004932	0.002125	0.05	No	21	0.005101	0.002916	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.005345	0.003529	0.05	No	22	0.004437	0.001692	4.545	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	21	0.003619	0.001743	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	21	0.004786	0.0007171	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	21	0.003868	0.001656	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01972	0.0105	0.05	No	21	0.01511	0.008357	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	21	0.004376	0.00134	80.95	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	17	0.001773	0.000641	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	17	0.001786	0.0006049	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	17	0.001656	0.0007652	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	17	0.001125	0.000958	52.94	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.00014	0.002	No	17	0.001146	0.0009346	52.94	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	17	0.001772	0.0006426	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	17	0.001771	0.0006459	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.000076	0.002	No	17	0.001323	0.0009444	64.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	18	0.001895	0.0004455	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	17	0.001885	0.0004729	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	17	0.00144	0.0008944	70.59	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0388	0.0031	0.43	No	16	0.01918	0.01676	6.25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWB-5R	0.01088	0.004351	0.43	No	16	0.008994	0.00808	6.25	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02669	0.008142	0.43	No	16	0.02263	0.02488	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.008409	0.00372	0.43	No	16	0.006849	0.005337	12.5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00481	0.0021	0.43	No	16	0.005832	0.007061	18.75	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWC-12	0.008356	0.003653	0.43	No	16	0.006837	0.005433	12.5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.0019	0.43	No	16	0.01482	0.008138	68.75	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01685	0.008245	0.43	No	19	0.01406	0.007586	15.79	Kaplan-Meier	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.02	0.0022	0.43	No	18	0.00837	0.008492	33.33	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	19	0.006719	0.007108	21.05	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.02	0.0024	0.43	No	16	0.0105	0.008699	43.75	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.0045	0.43	No	16	0.01793	0.005666	87.5	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.02	0.0025	0.43	No	18	0.007865	0.007799	27.78	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.02	0.0029	0.43	No	16	0.007603	0.007491	25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-22	0.02	0.0016	0.43	No	16	0.01237	0.008989	56.25	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.00514	0.43	No	16	0.01675	0.00704	81.25	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	4	0.01603	0.00793	75	None	No	0.0625	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	4	0.0156	0.0088	75	None	No	0.0625	NP (NDs)
Zinc (mg/L)	GWB-4R	0.008677	0.004539	0.16	No	16	0.01116	0.006702	31.25	Kaplan-Meier	x^(1/3)	0.01	Param.
Zinc (mg/L)	GWB-5R	0.02	0.0023	0.16	No	16	0.01588	0.007495	75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.02	0.0032	0.16	No	16	0.01415	0.007714	56.25	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-1	0.02	0.0057	0.16	No	16	0.01526	0.007441	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.0031	0.16	No	16	0.01487	0.007904	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0025	0.16	No	16	0.009019	0.008732	25	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.039	0.0027	0.16	No	16	0.02045	0.01819	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	19	0.01682	0.006502	78.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	18	0.01895	0.005959	83.33	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	19	0.01362	0.008076	57.89	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01465	0.008288	0.16	No	16	0.01147	0.004888	12.5	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.056	0.0018	0.16	No	16	0.01656	0.01312	56.25	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	18	0.01869	0.005951	77.78	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.002	0.16	No	16	0.01437	0.007802	62.5	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0031	0.16	No	16	0.01322	0.007473	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	16	0.009862	0.008504	25	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01308	0.004223	0.16	No	4	0.01432	0.006744	50	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-24D	0.01509	-0.002391	0.16	No	4	0.01317	0.008485	50	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-25D	0.06176	-0.02013	0.16	No	4	0.02312	0.01958	25	Kaplan-Meier	No	0.01	Param.

Appendix IV Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/5/2022, 6:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.03505	172	87	Yes	21	0	n/a	n/a	0.01	NP

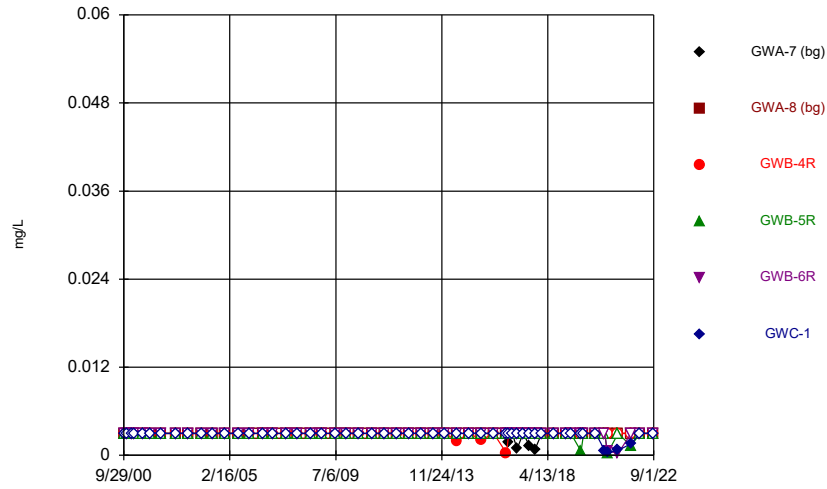
Appendix IV Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/5/2022, 6:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0005488	-25	-87	No	21	28.57	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	28	92	No	22	72.73	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03505	172	87	Yes	21	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	0.003681	65	92	No	22	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.003801	24	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	9	63	No	17	76.47	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-16	0.01903	57	63	No	17	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-20	0.005248	4	63	No	17	0	n/a	n/a	0.01	NP

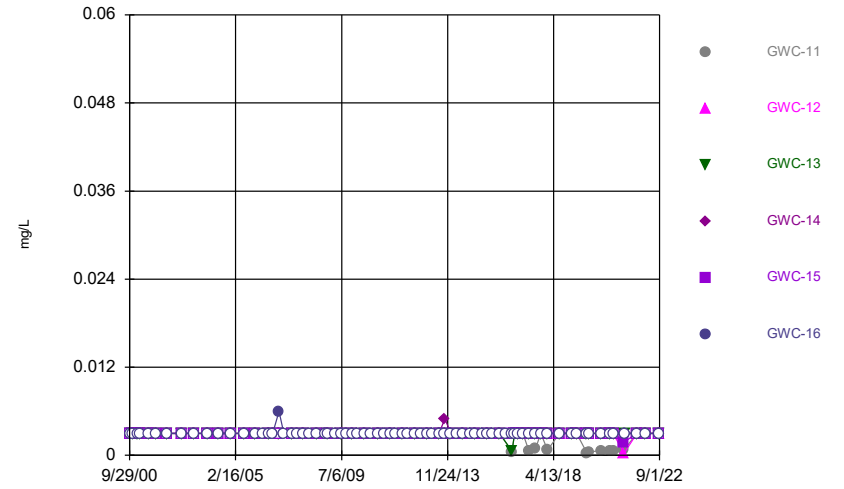
FIGURE A.

Time Series



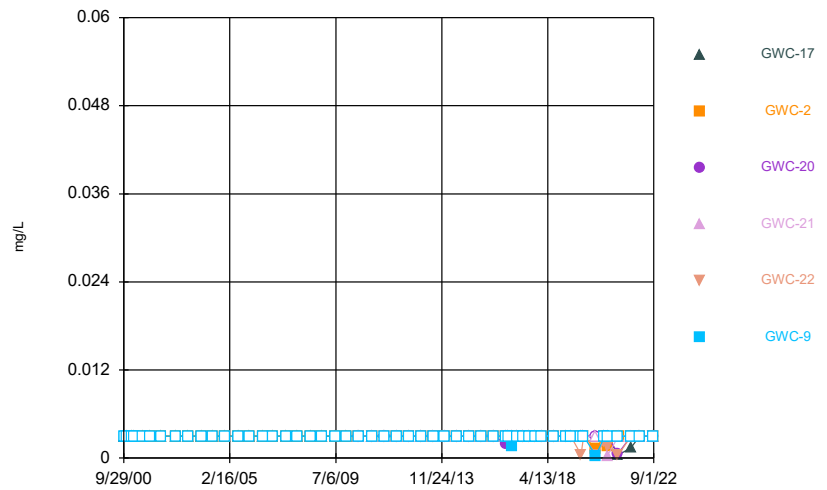
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



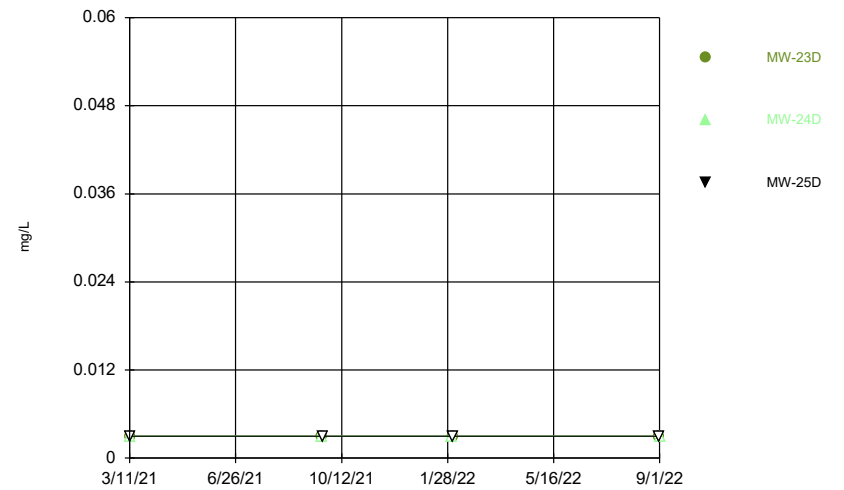
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Time Series



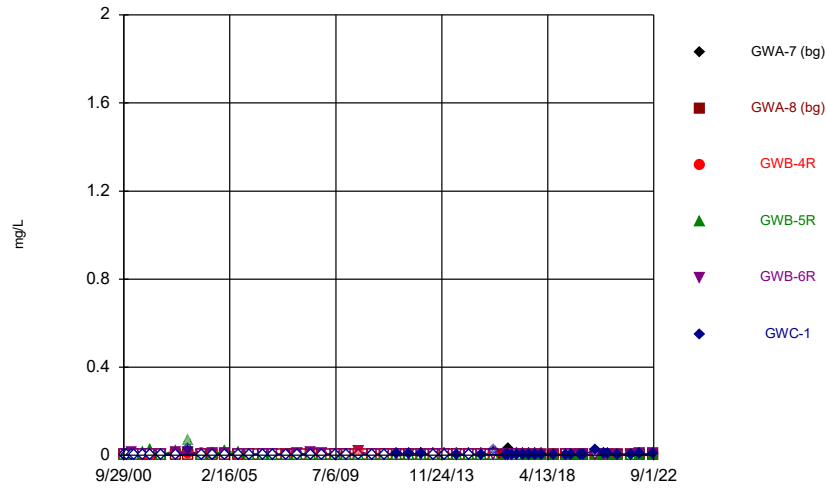
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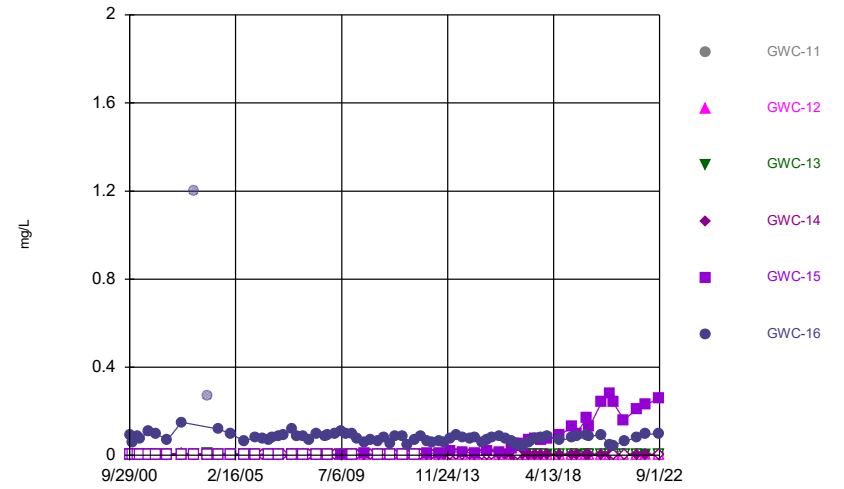
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Time Series



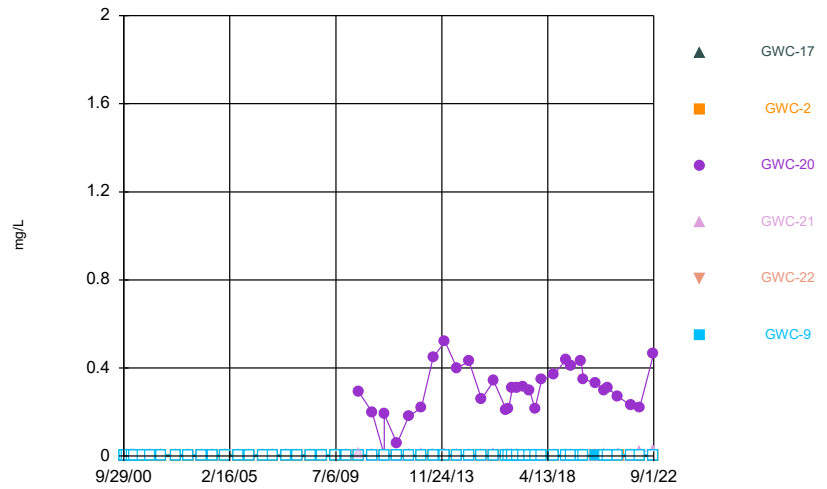
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



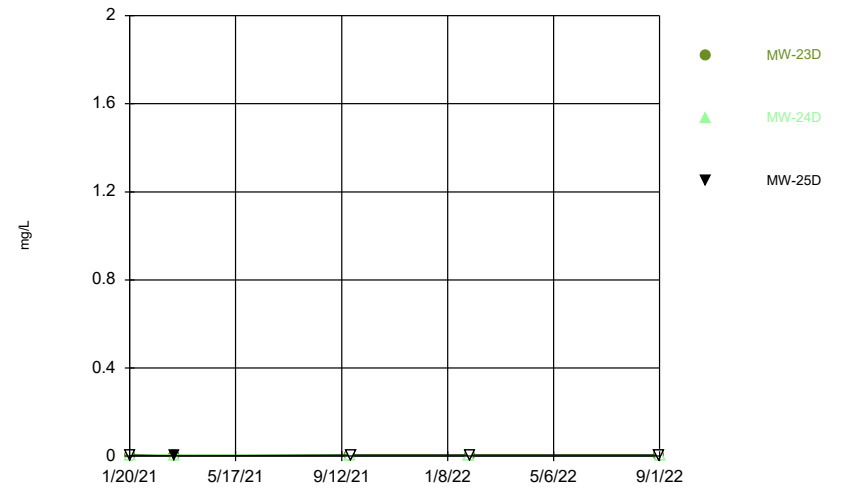
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



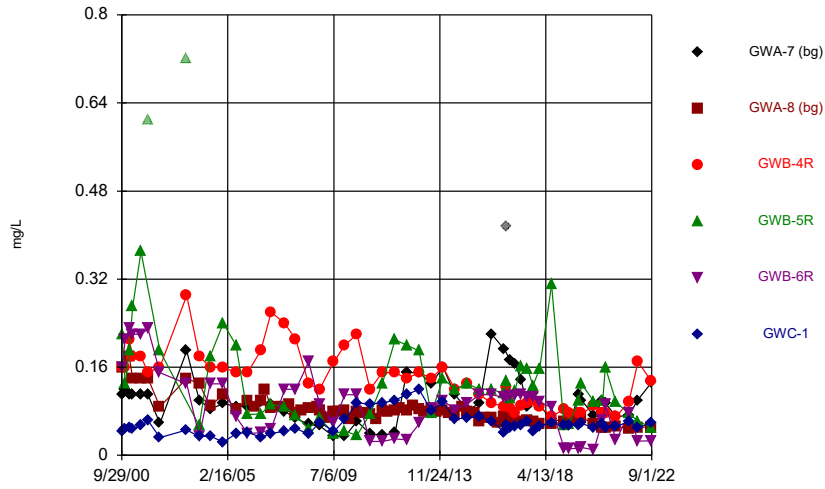
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Arsenic Analysis Run 11/6/2022 9:43 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

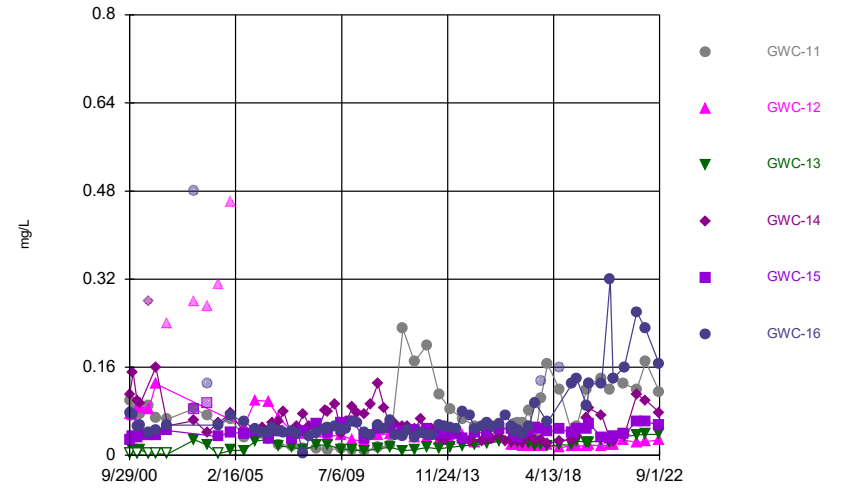
Time Series



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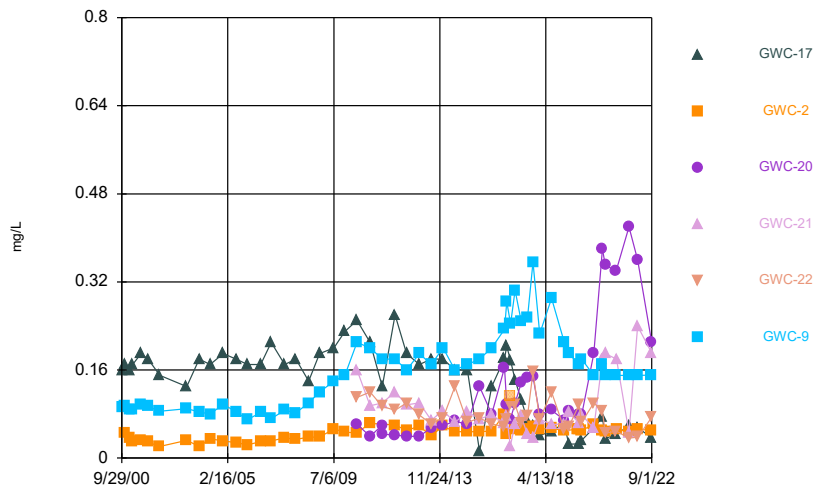
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Time Series



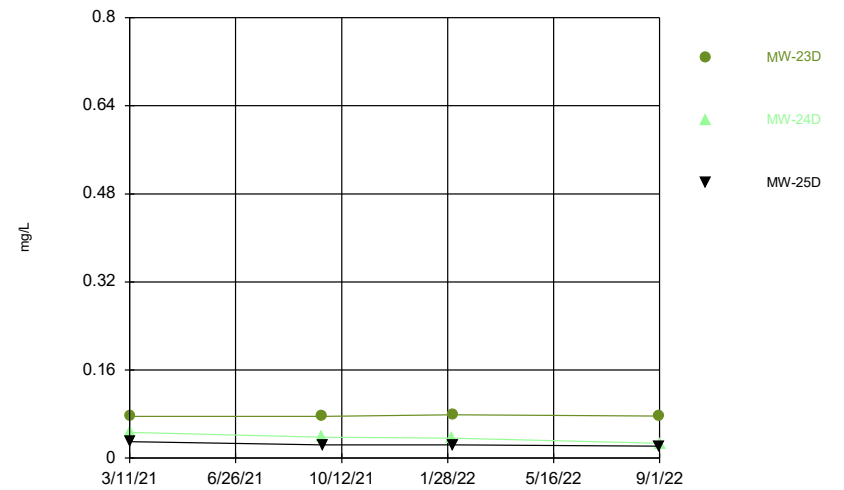
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Time Series



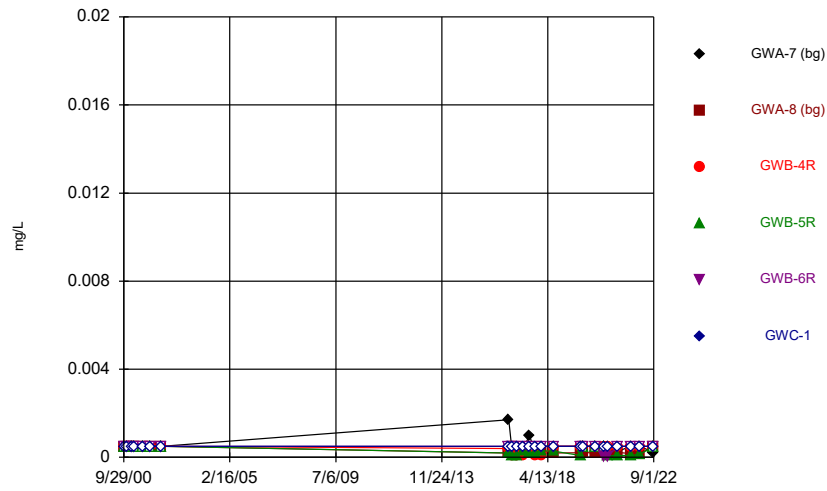
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Time Series



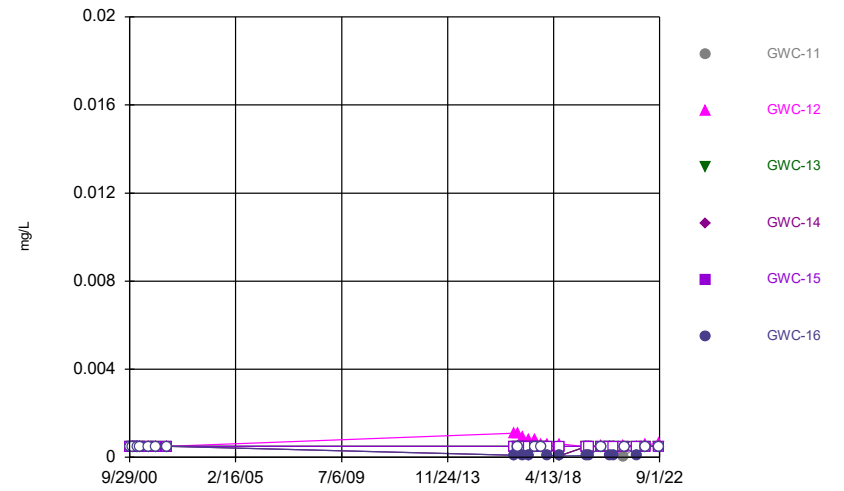
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Time Series



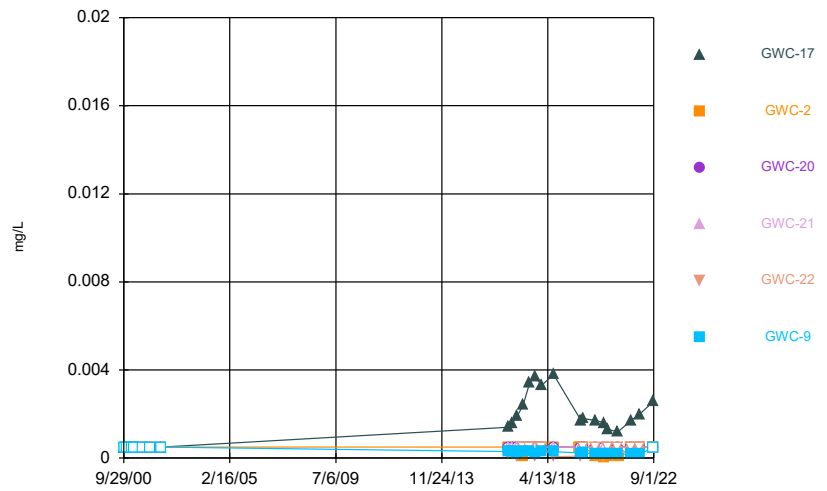
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



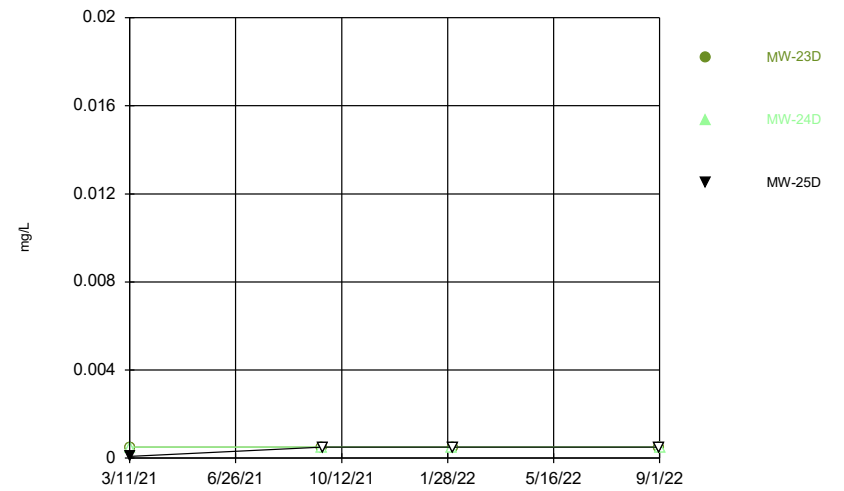
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



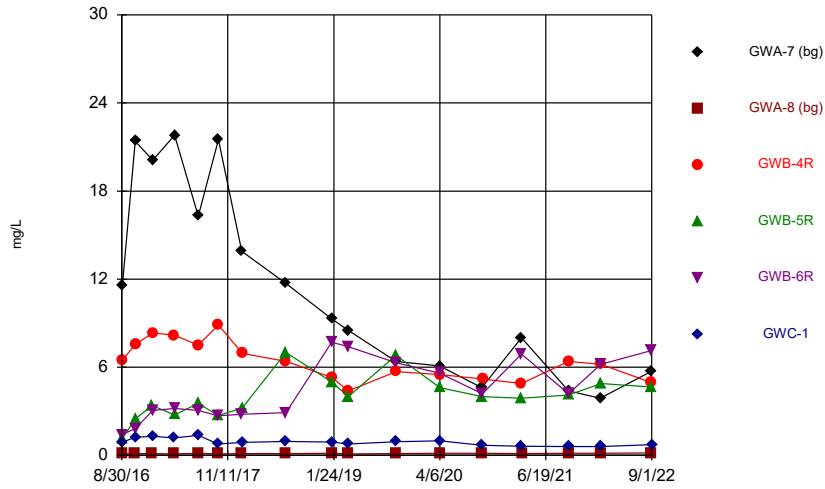
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



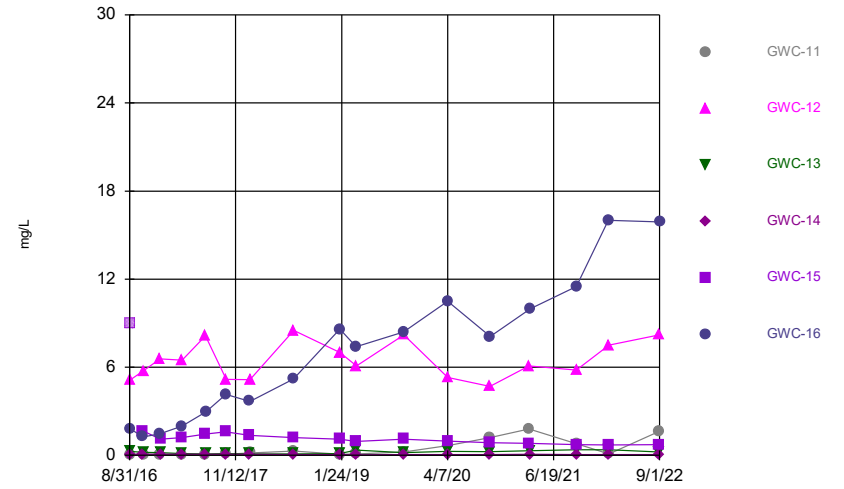
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Time Series



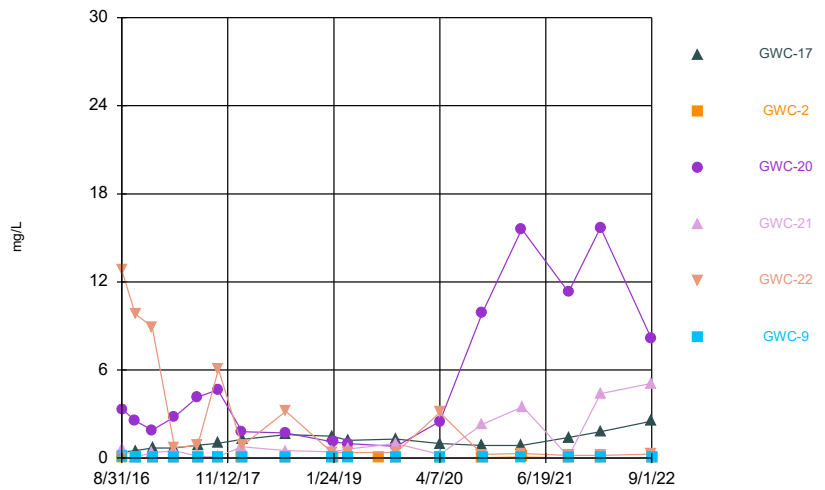
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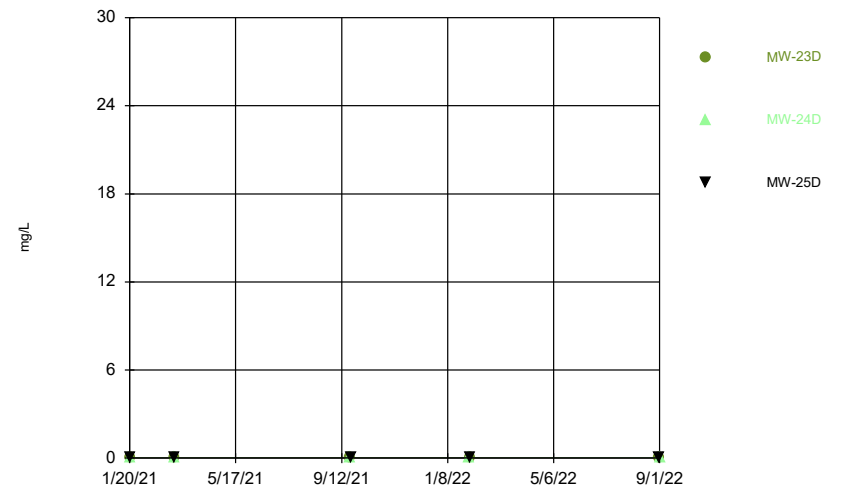
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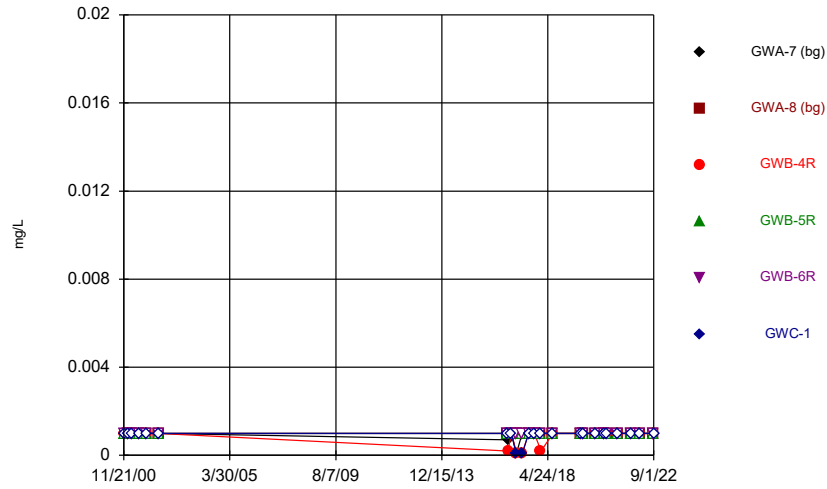
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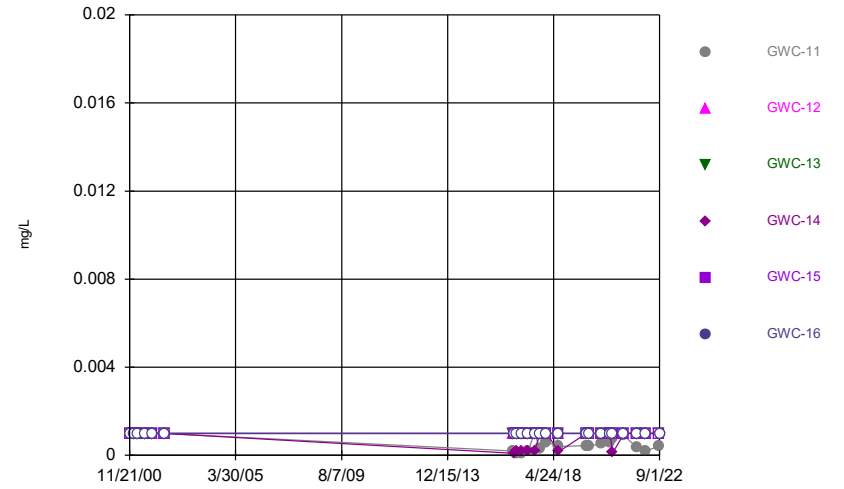
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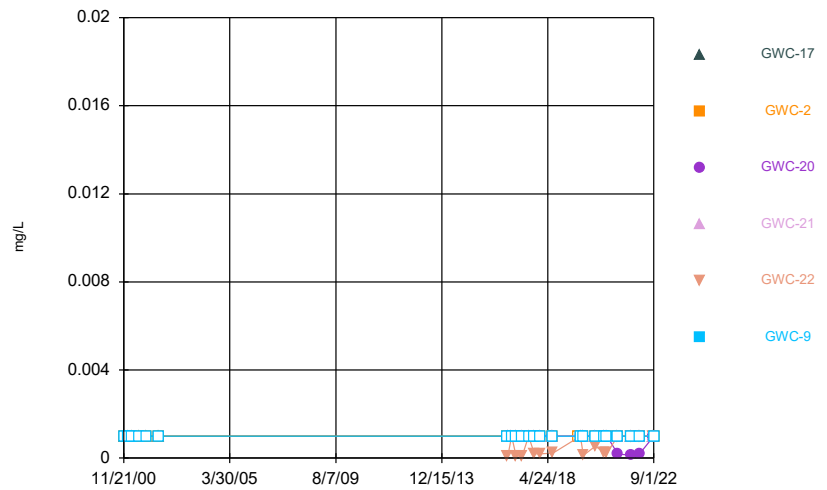
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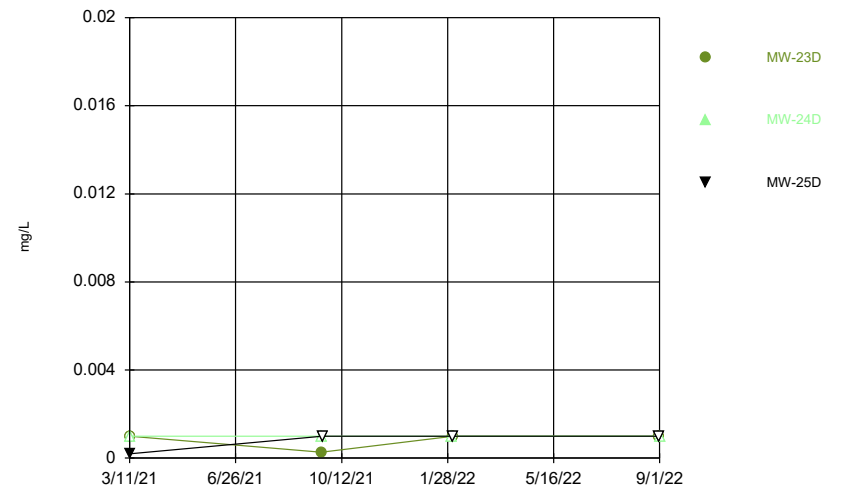
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Time Series



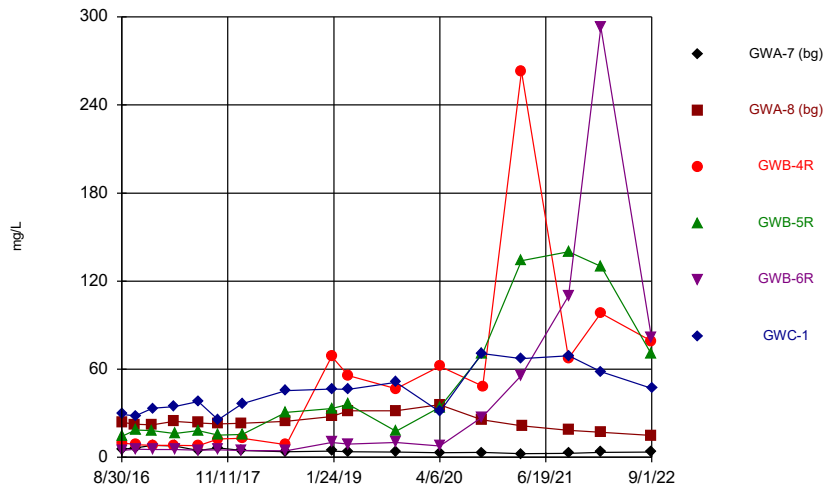
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Time Series



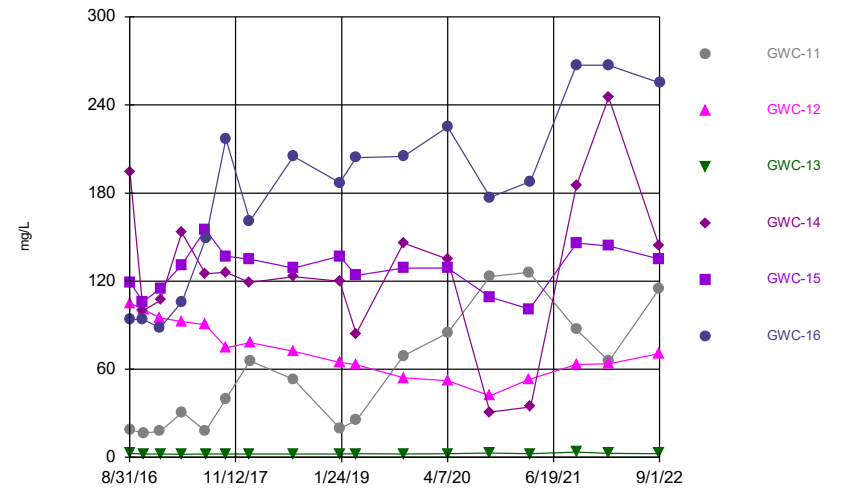
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Time Series



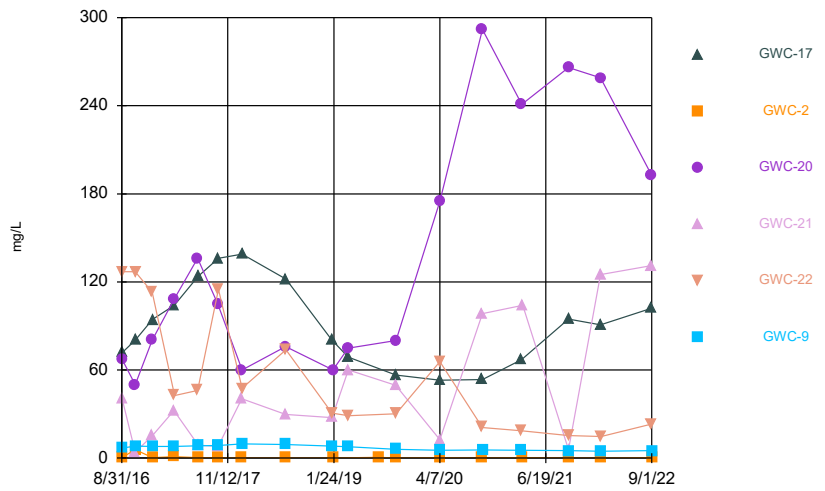
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



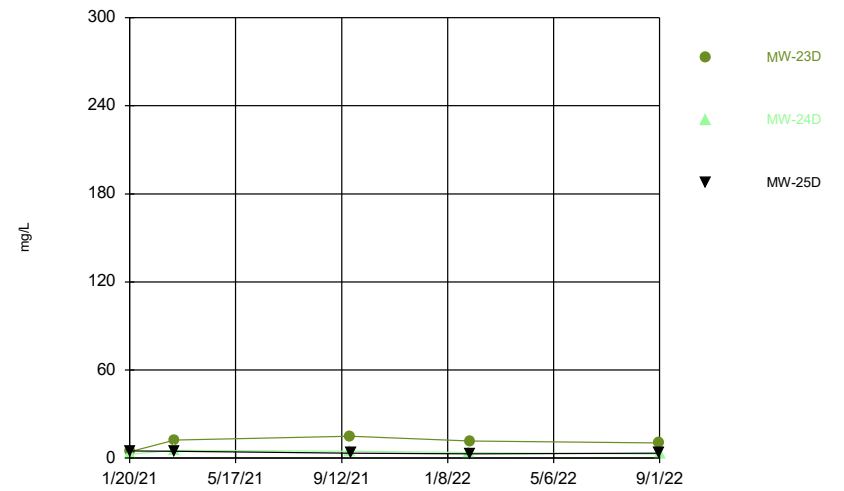
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



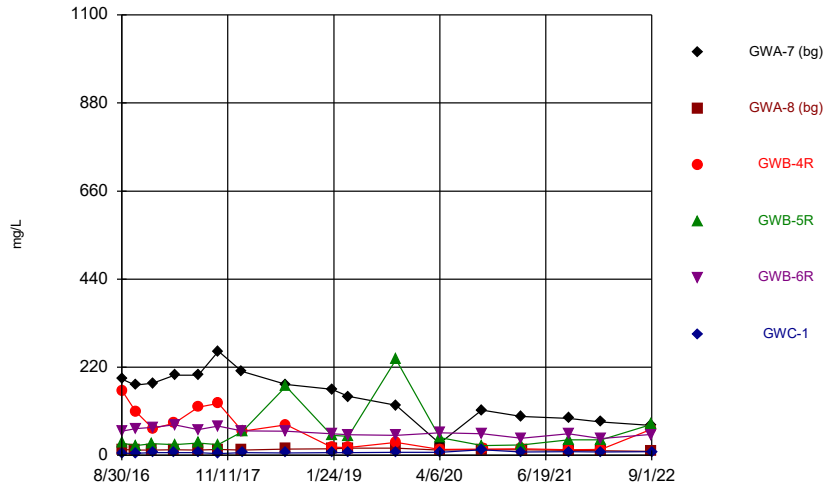
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



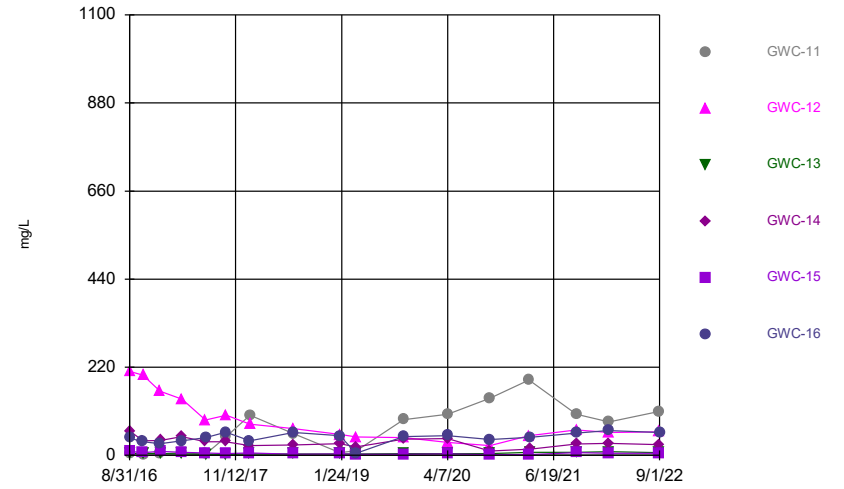
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



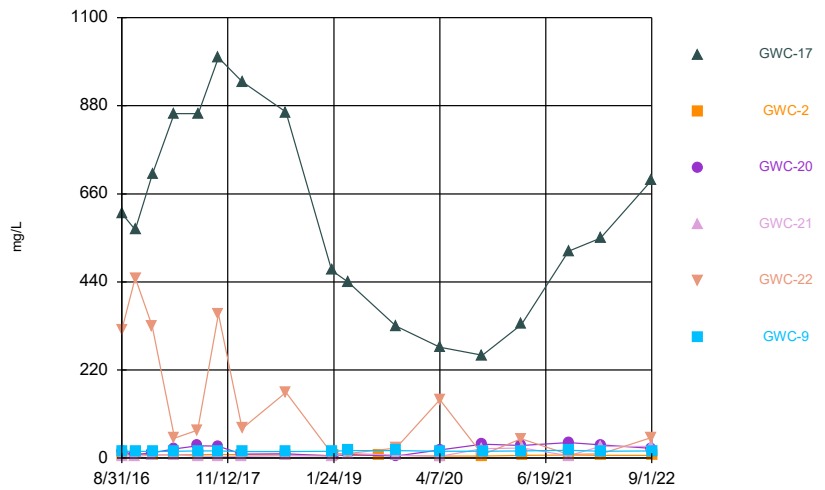
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Time Series



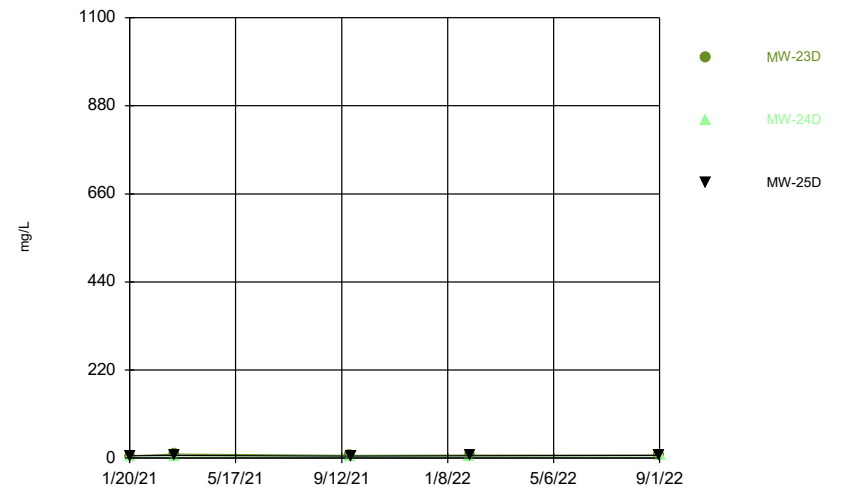
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



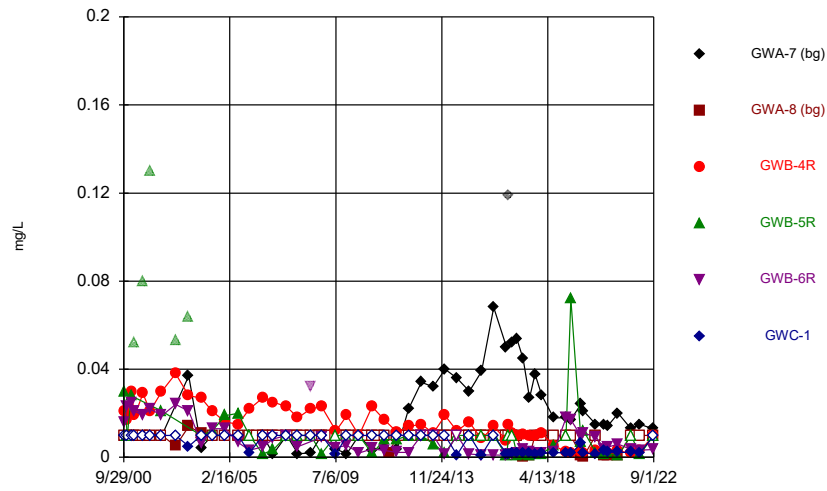
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Time Series



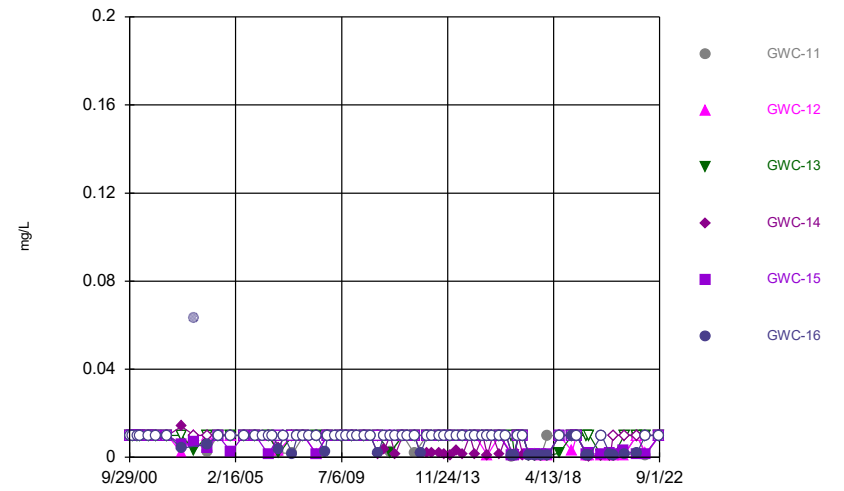
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



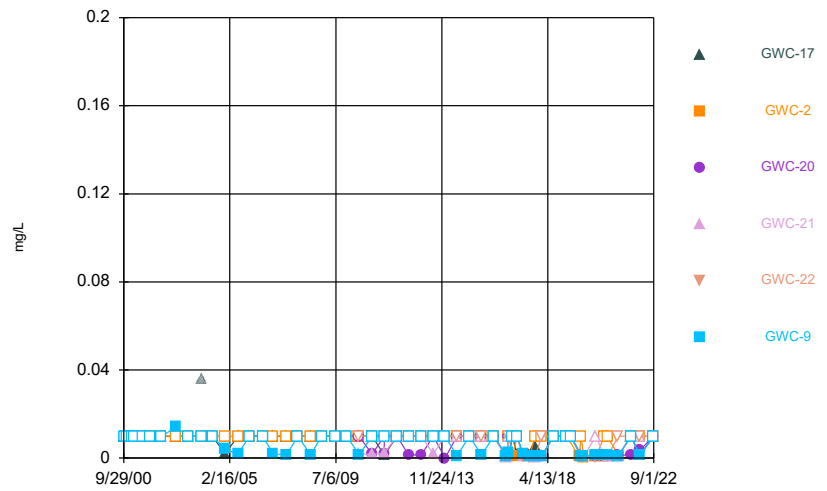
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



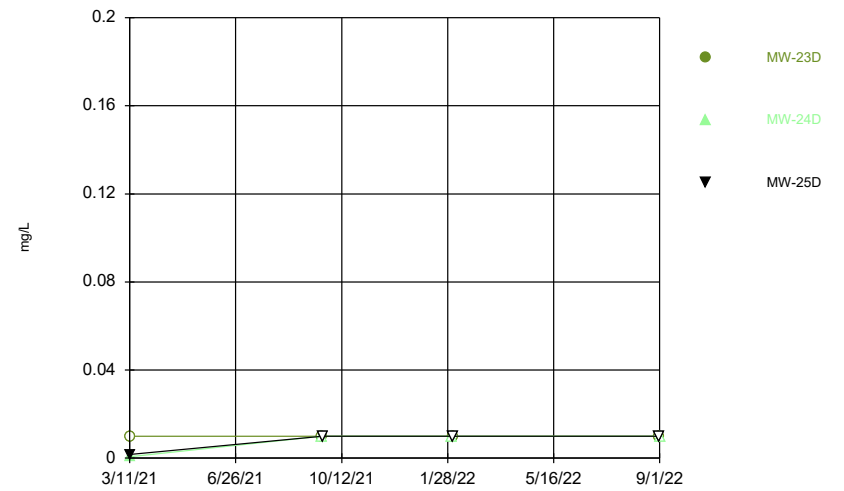
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



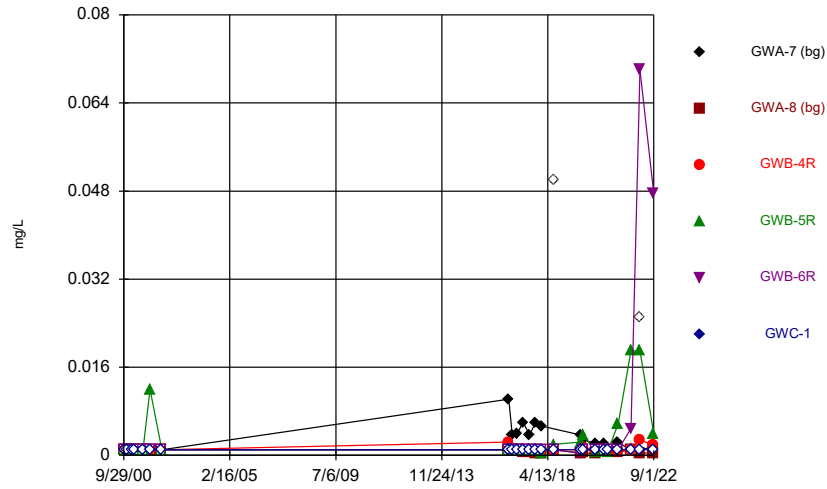
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



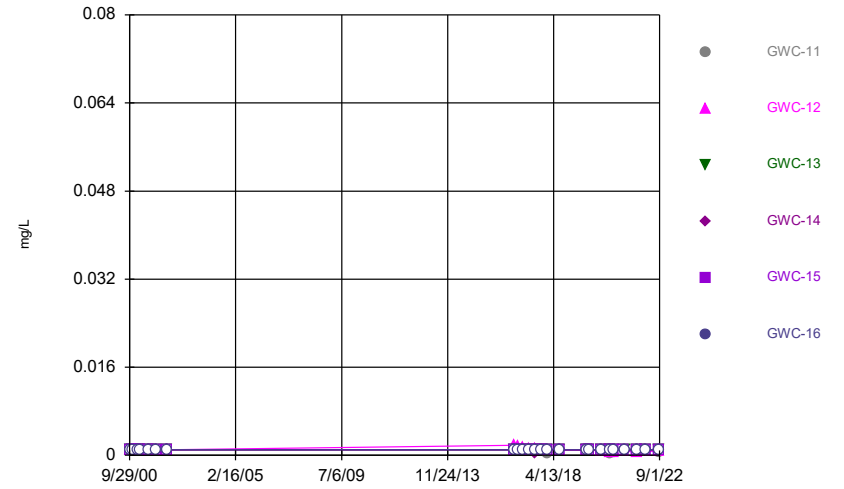
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



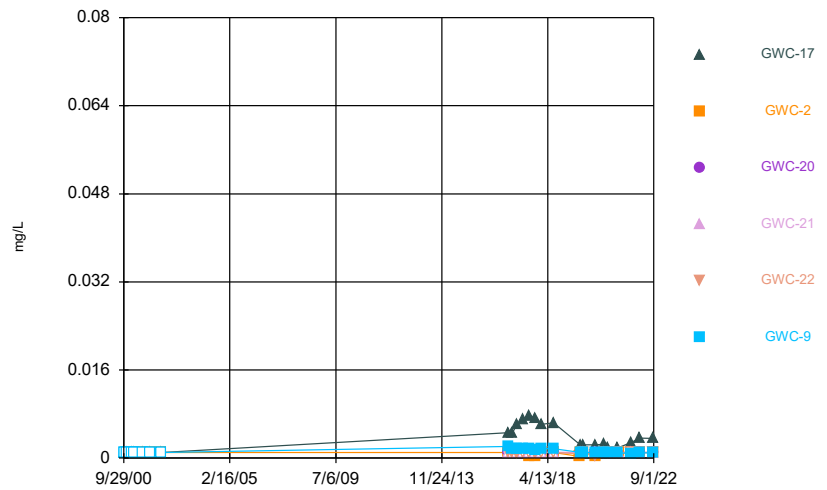
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



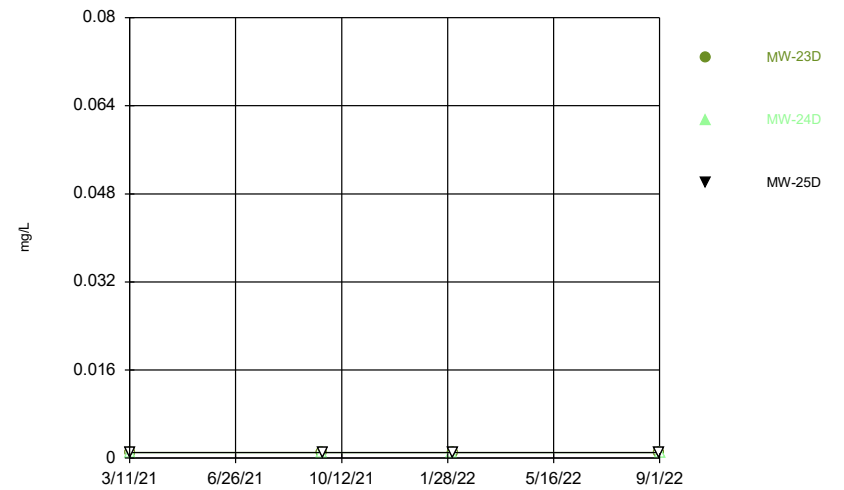
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



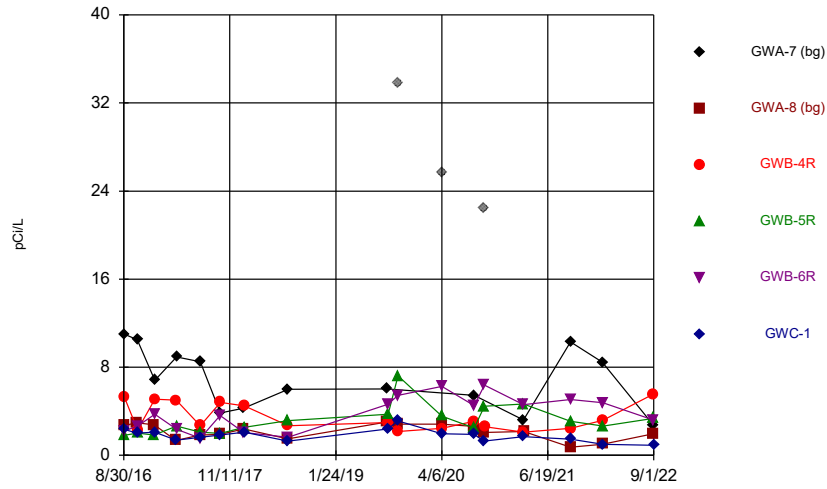
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



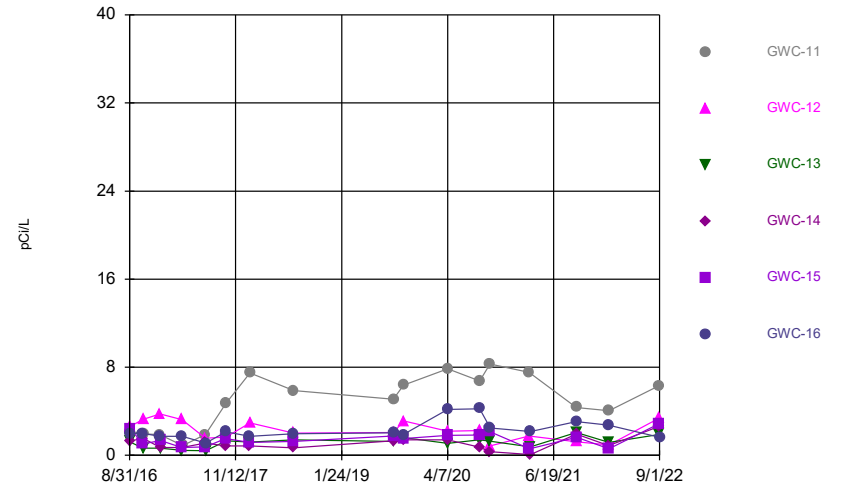
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



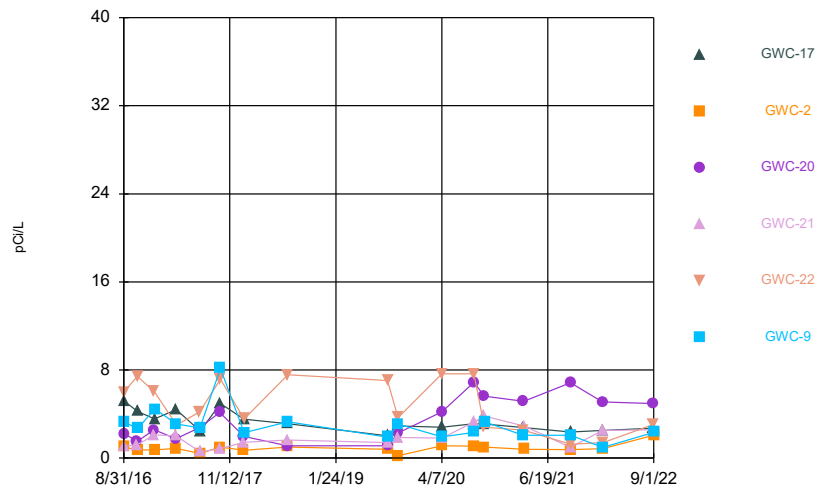
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 9:44 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



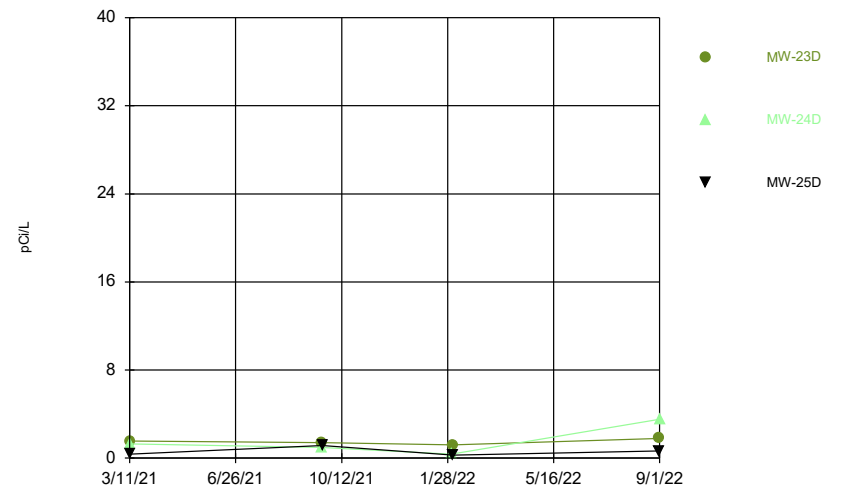
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 9:44 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



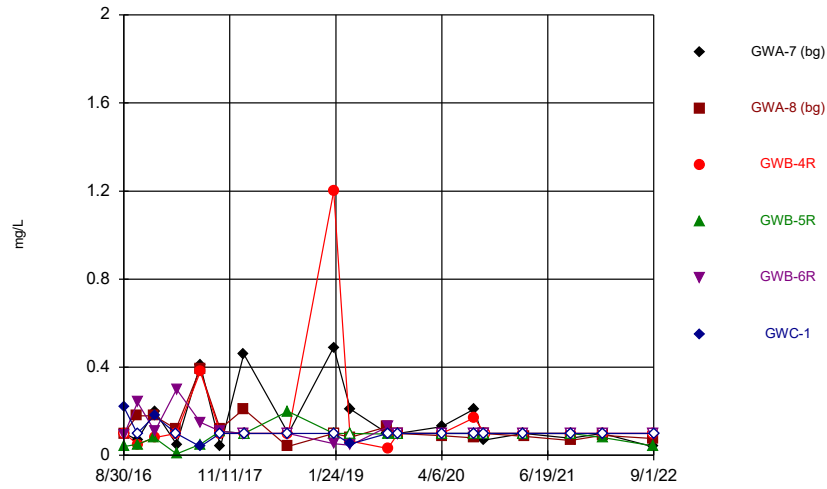
Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 9:44 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



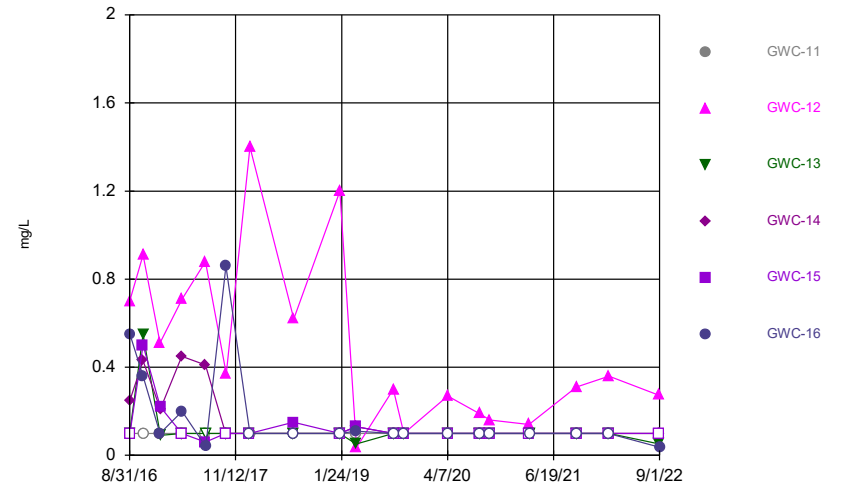
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



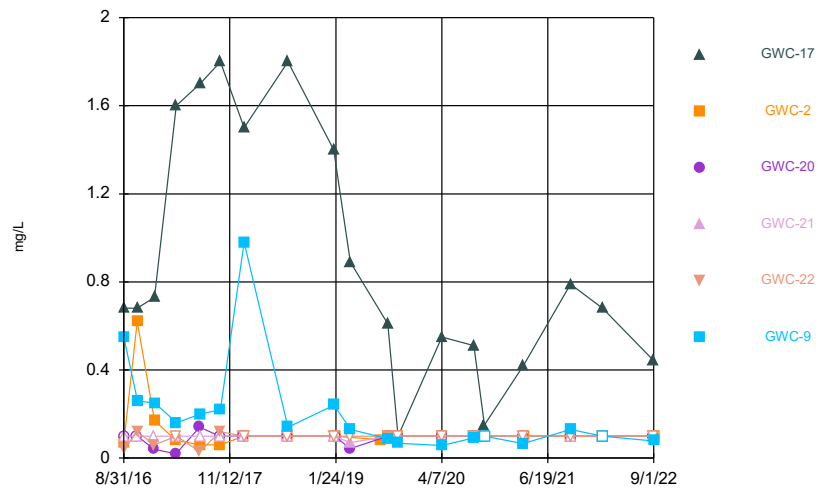
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



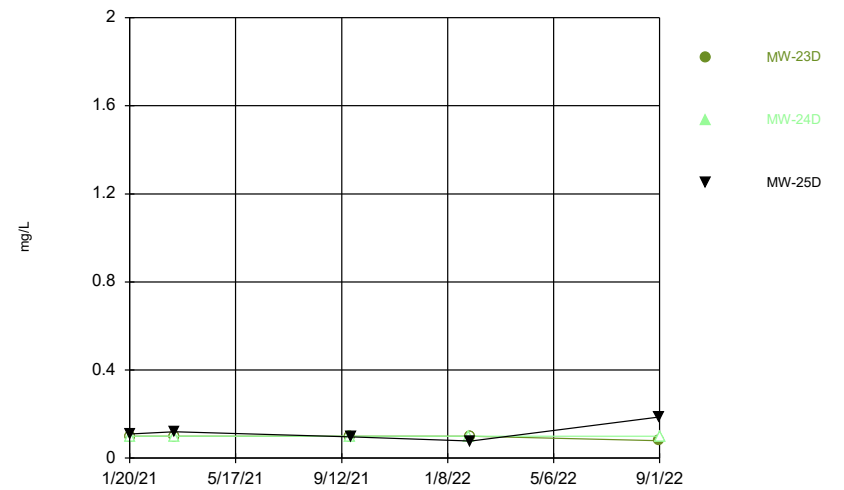
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Time Series



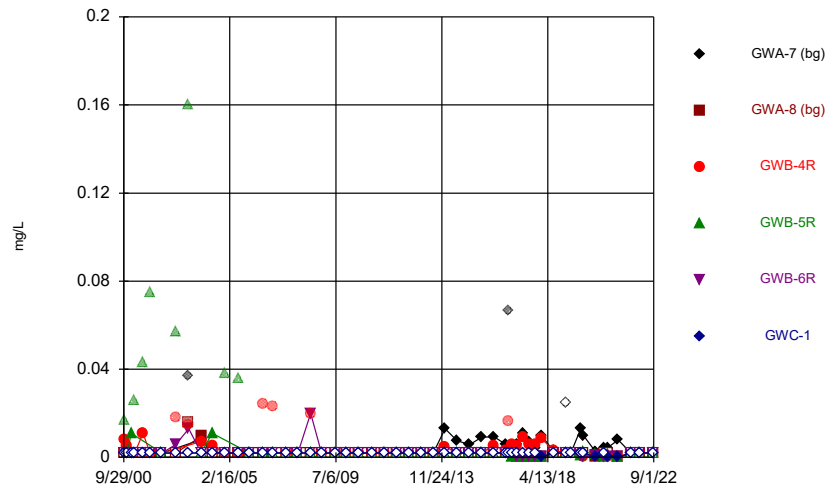
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Time Series



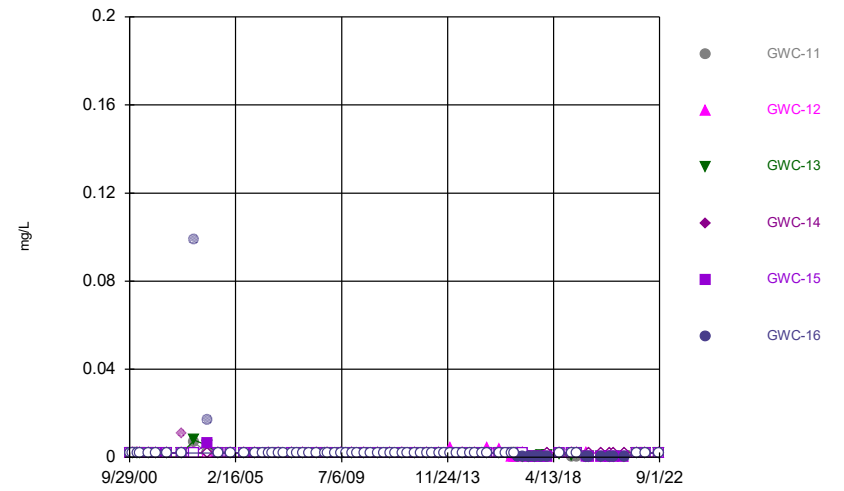
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



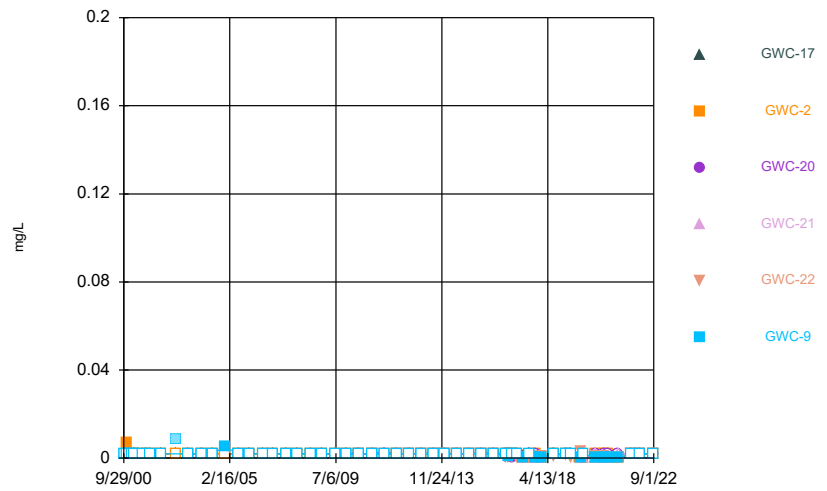
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



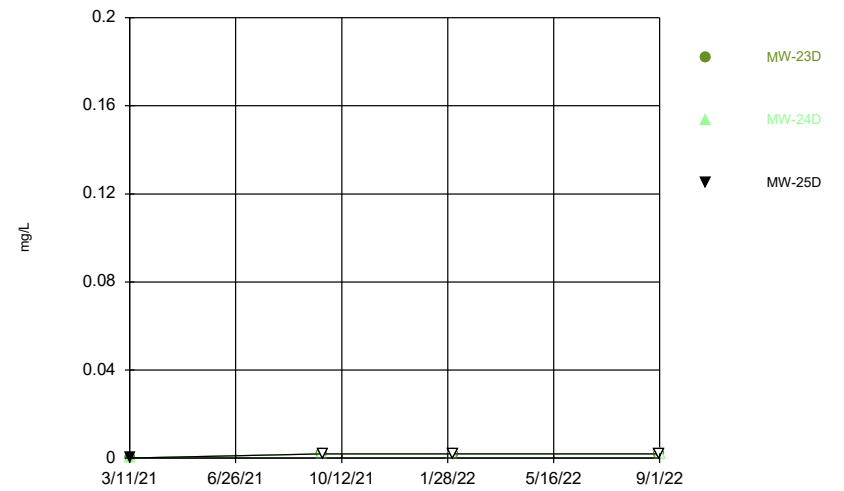
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



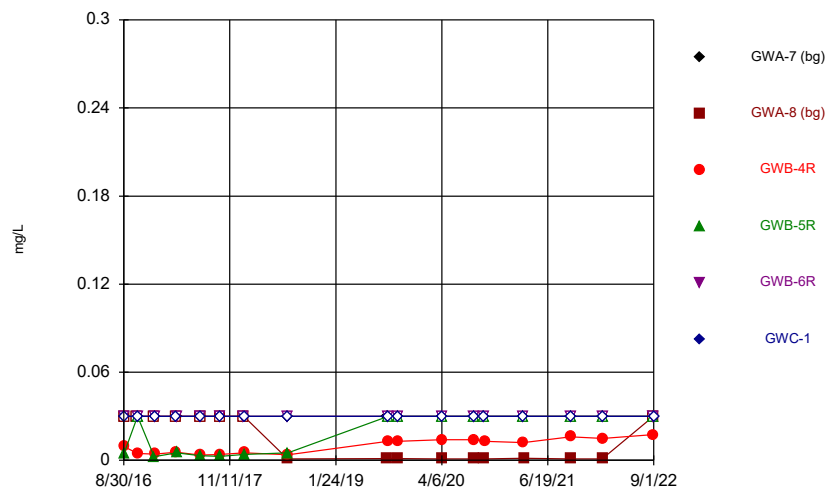
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



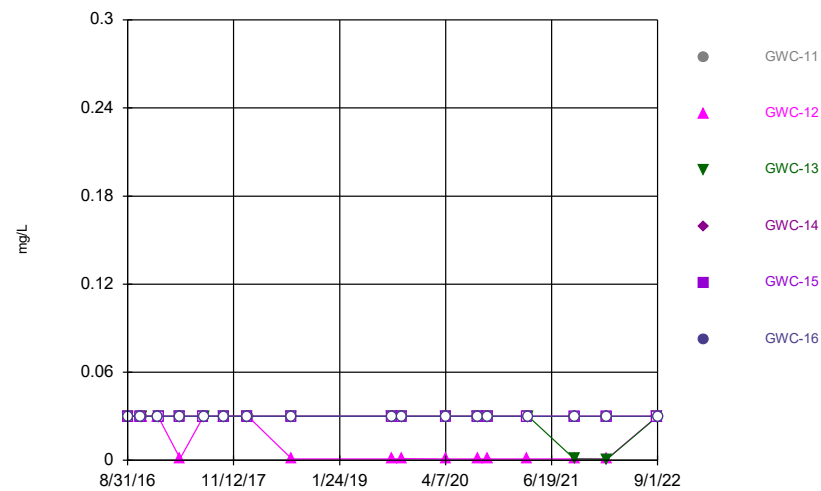
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



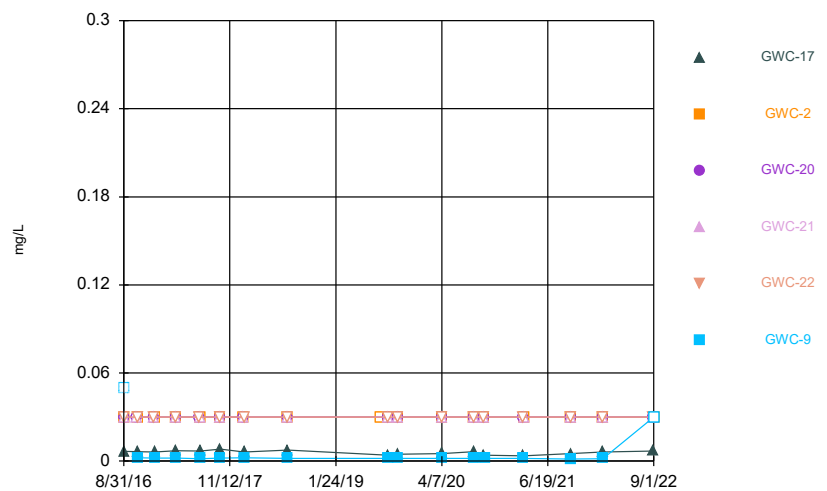
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



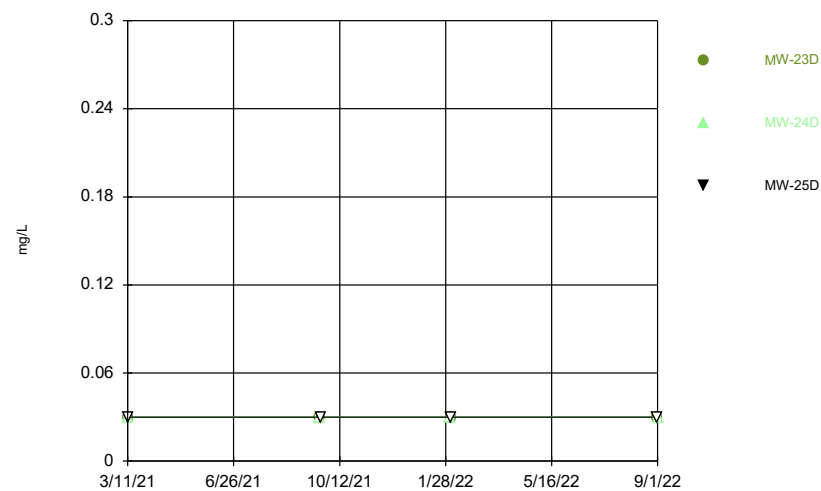
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



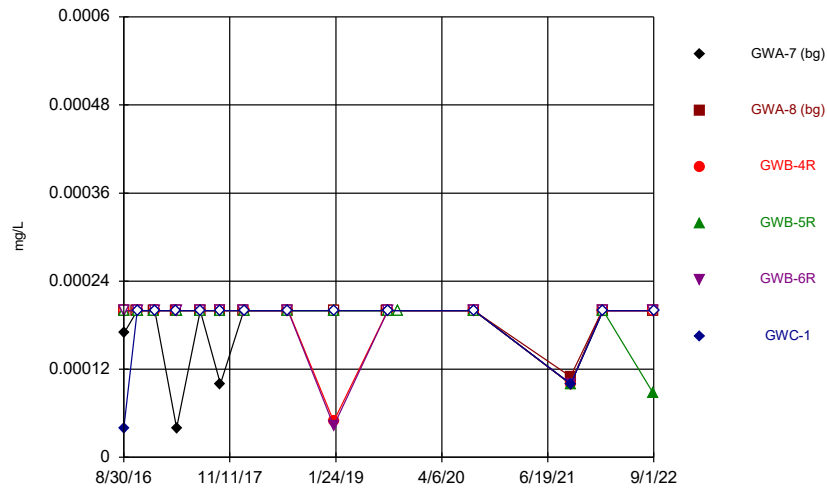
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Time Series



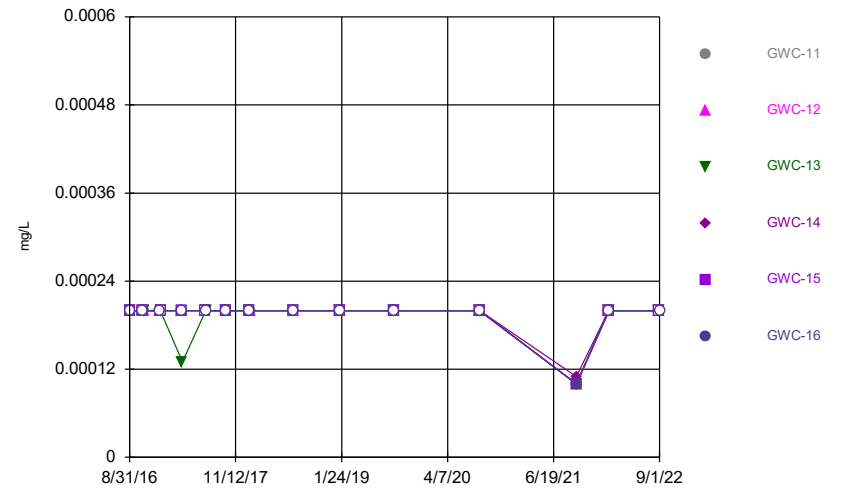
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Time Series



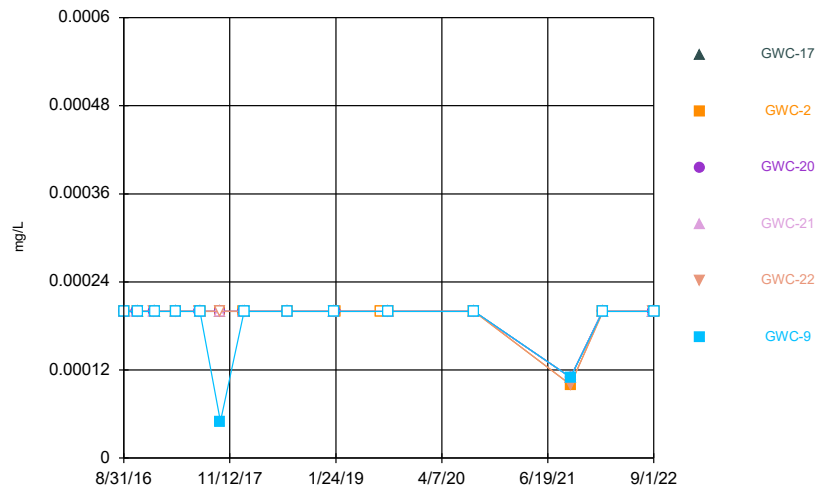
Constituent: Mercury Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



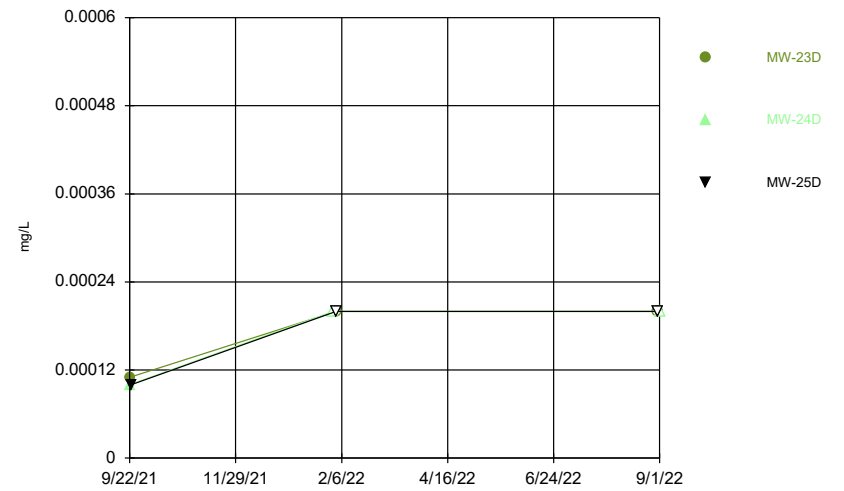
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



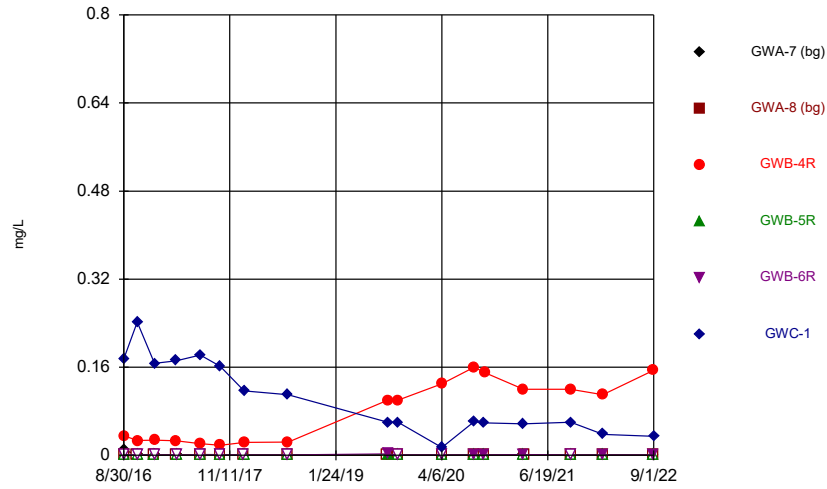
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



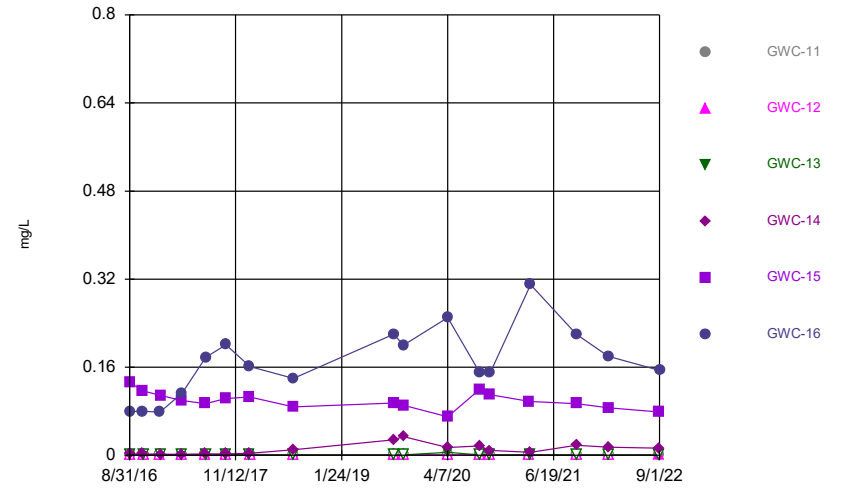
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



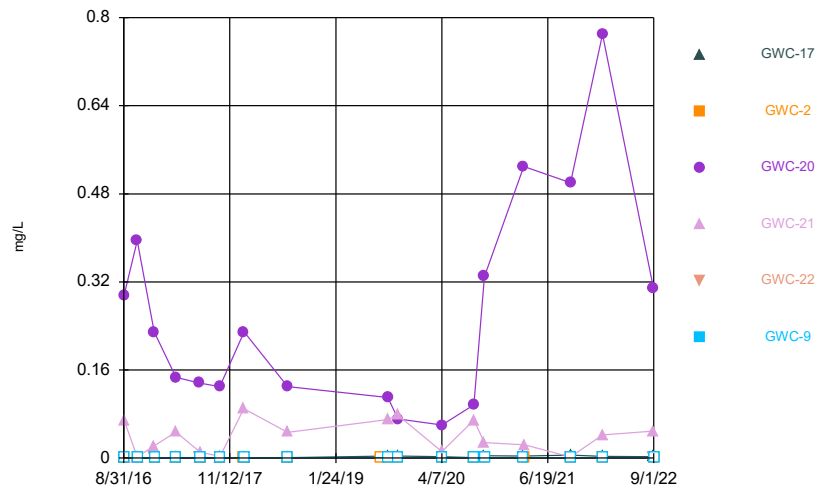
Constituent: Molybdenum Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



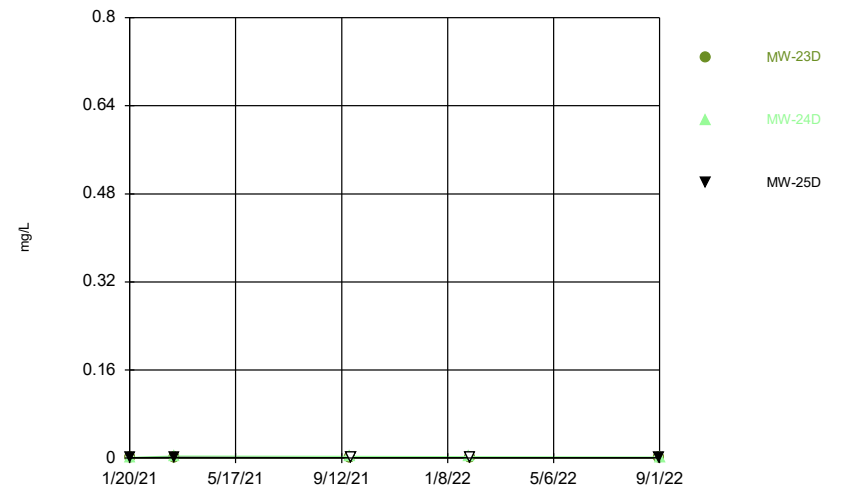
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



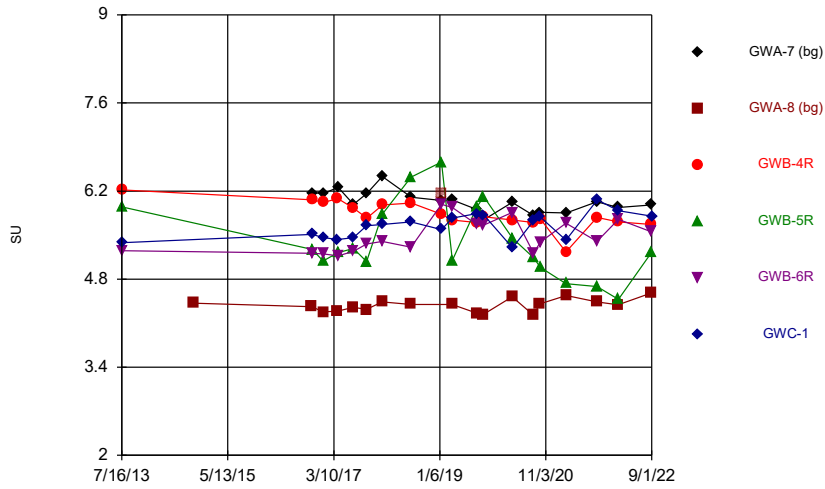
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



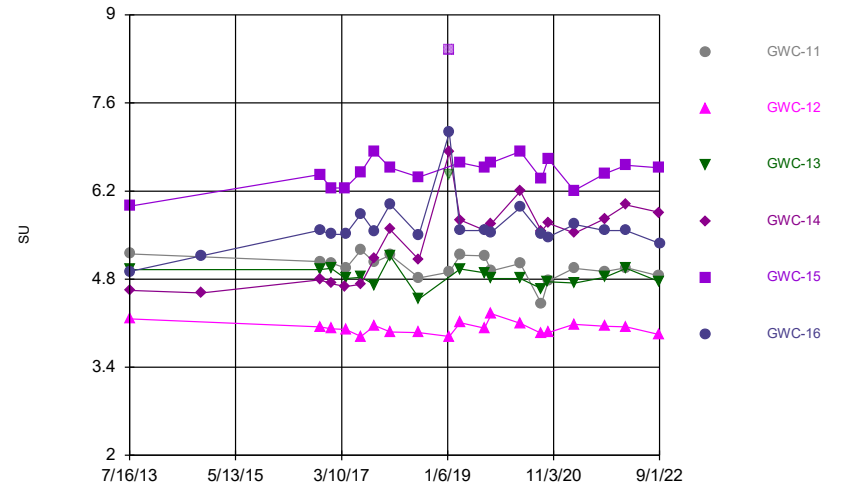
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



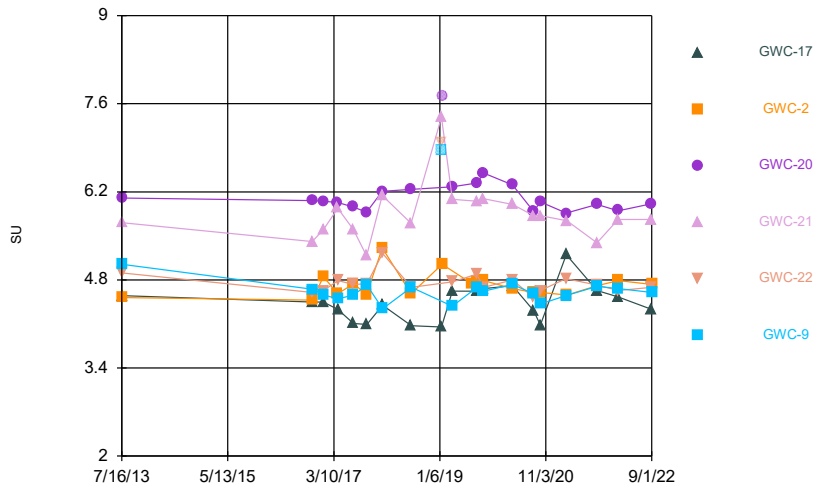
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



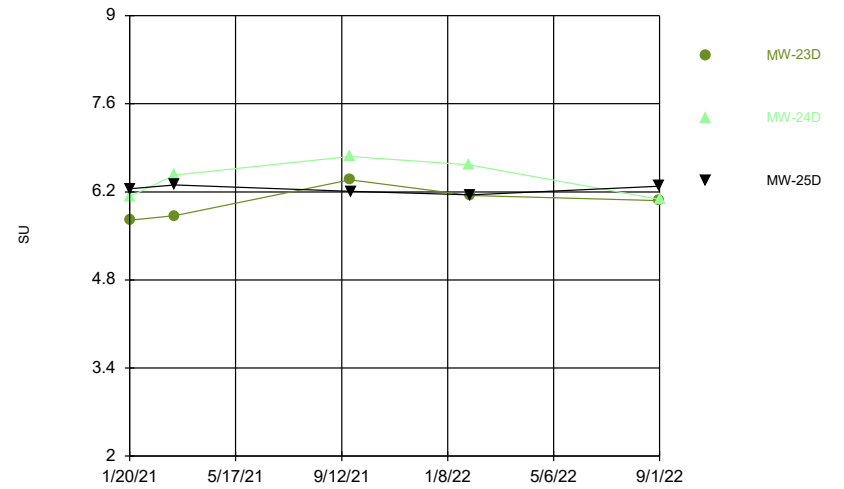
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



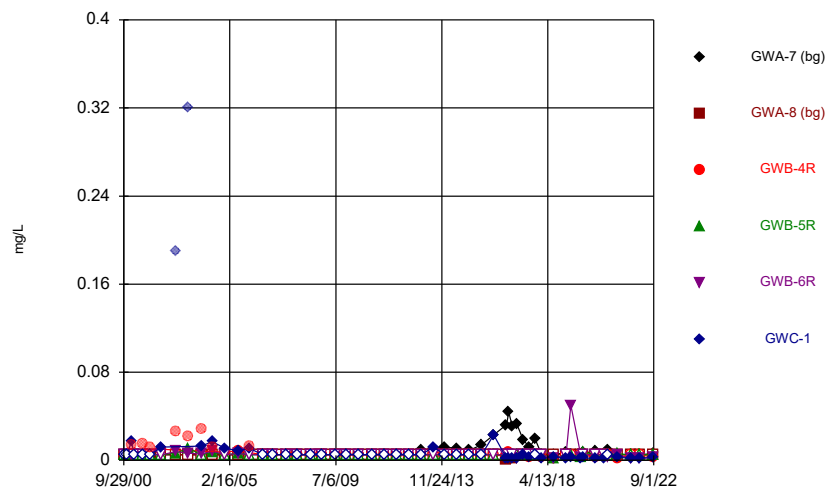
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



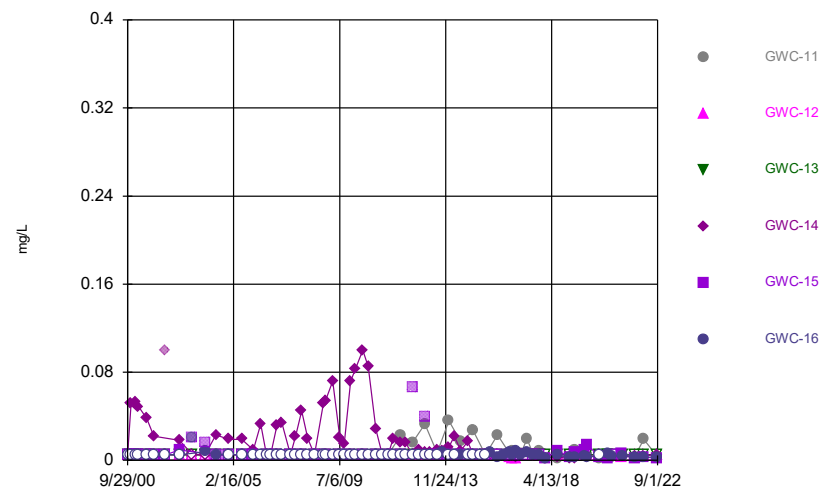
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



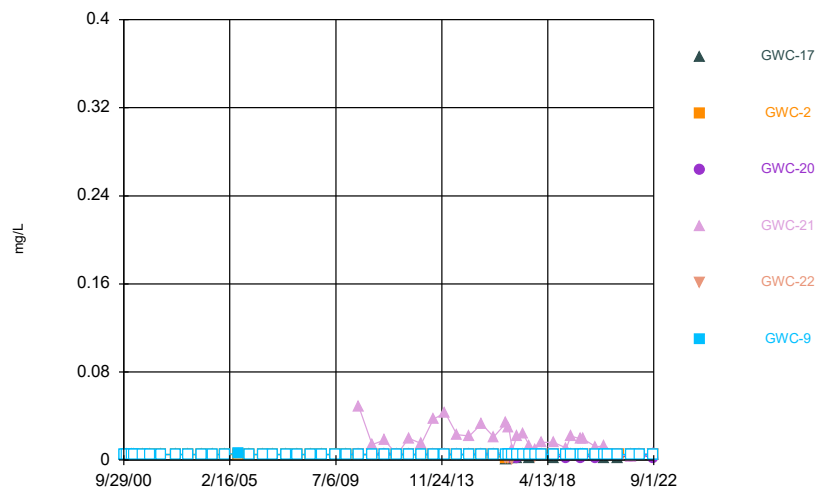
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



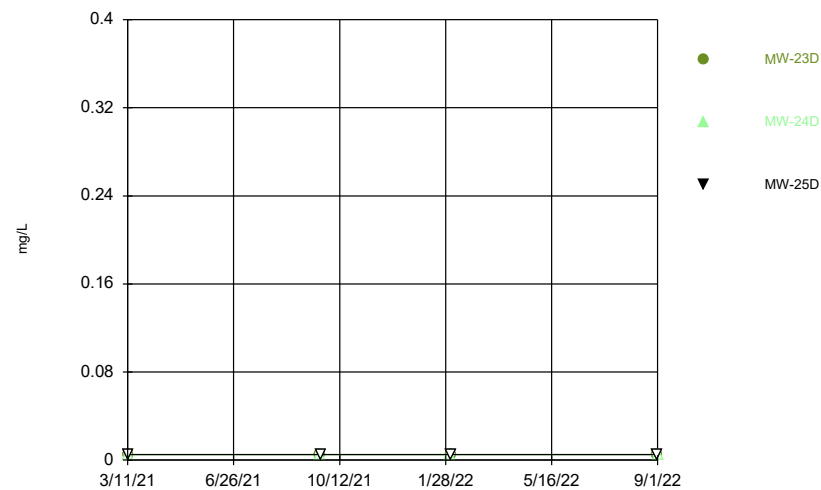
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



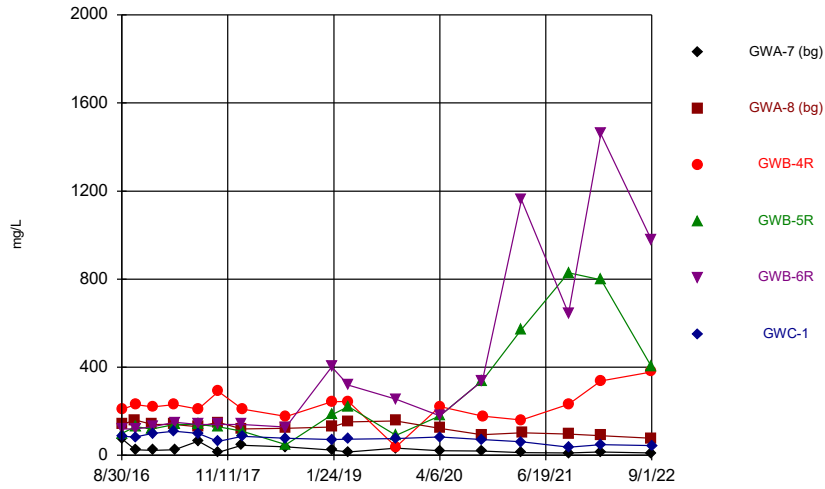
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



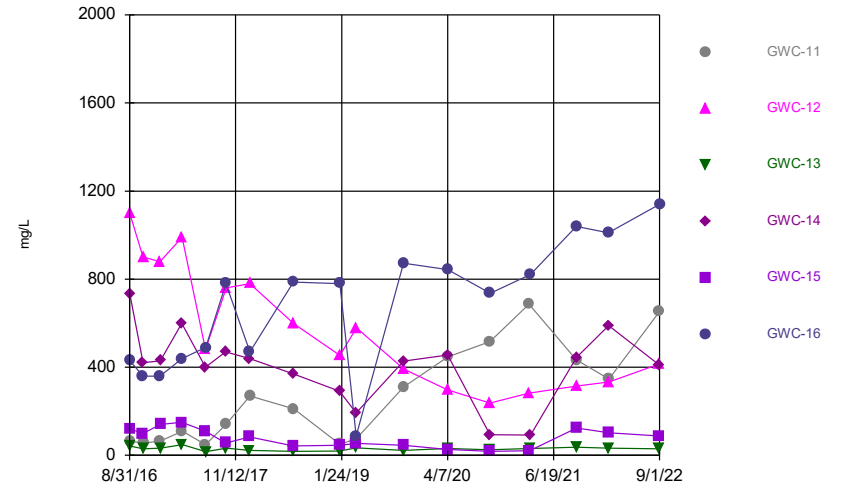
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



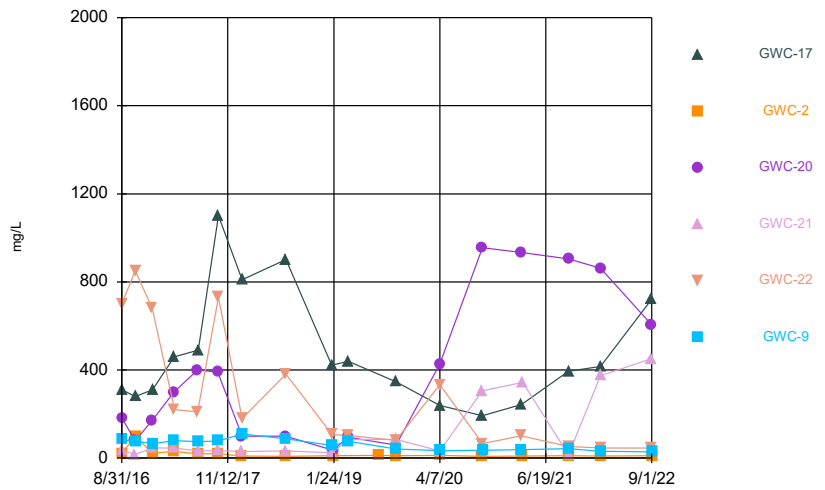
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



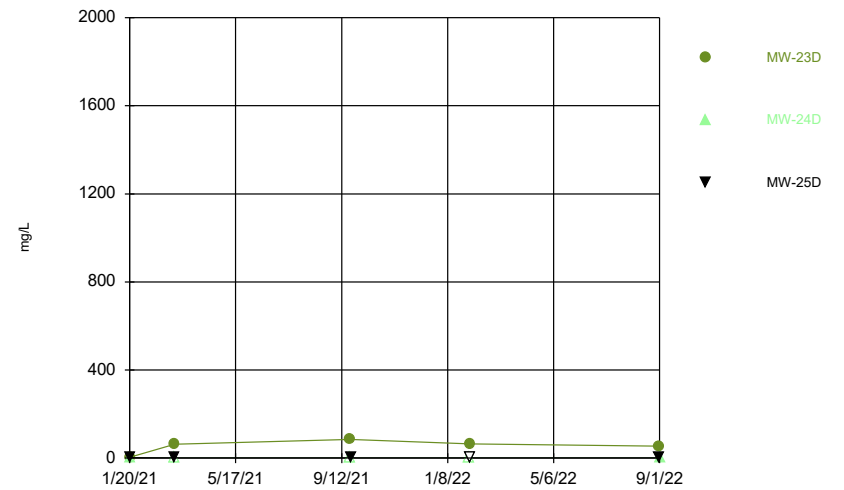
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Time Series



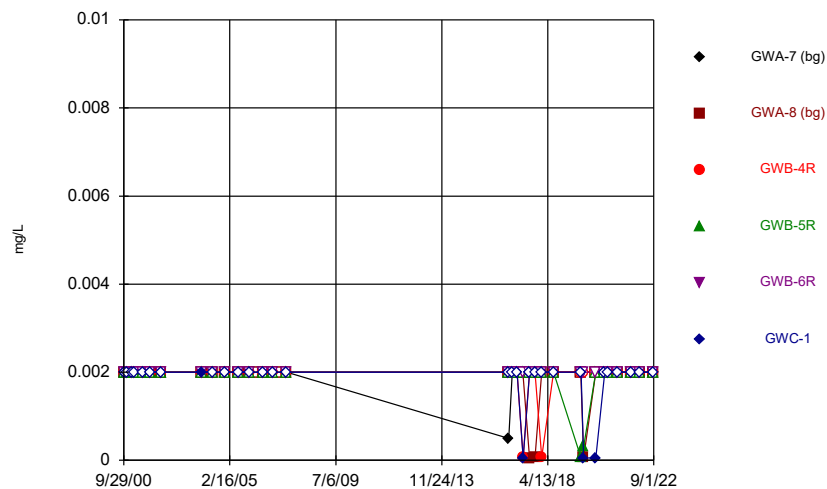
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



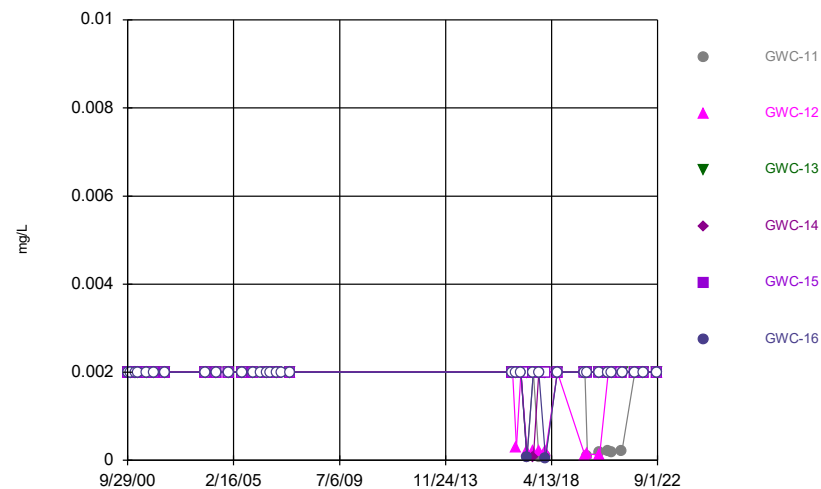
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



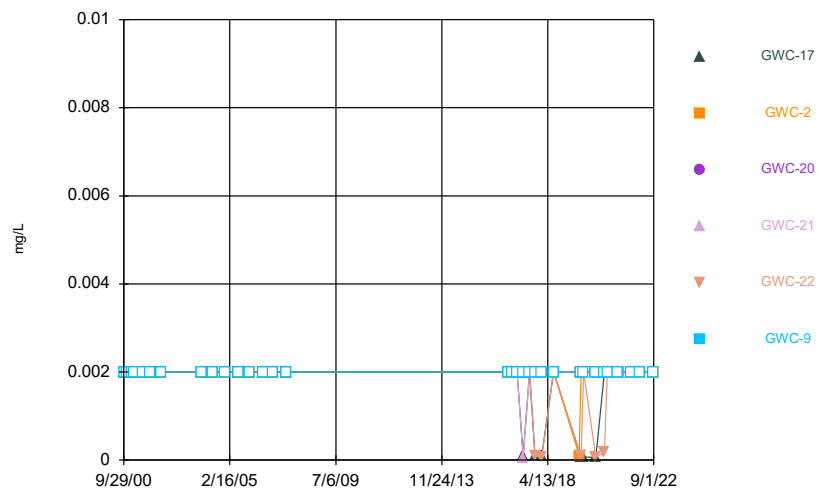
Constituent: Thallium Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



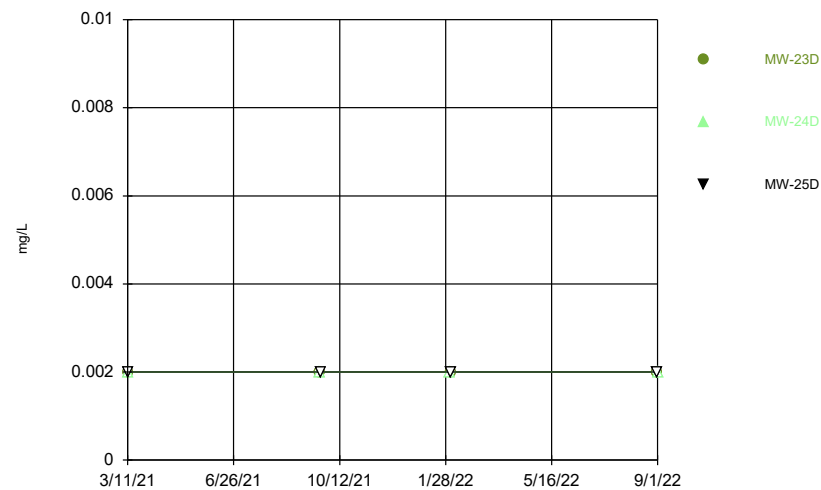
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



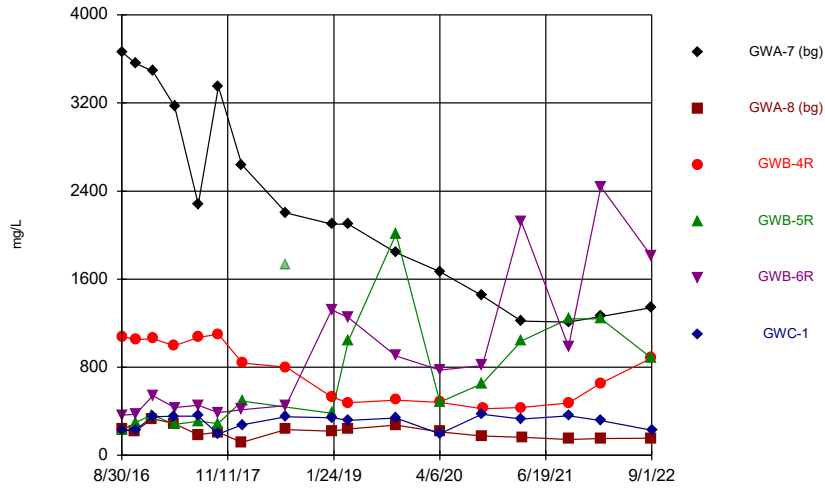
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Thallium Analysis Run 11/6/2022 9:45 AM
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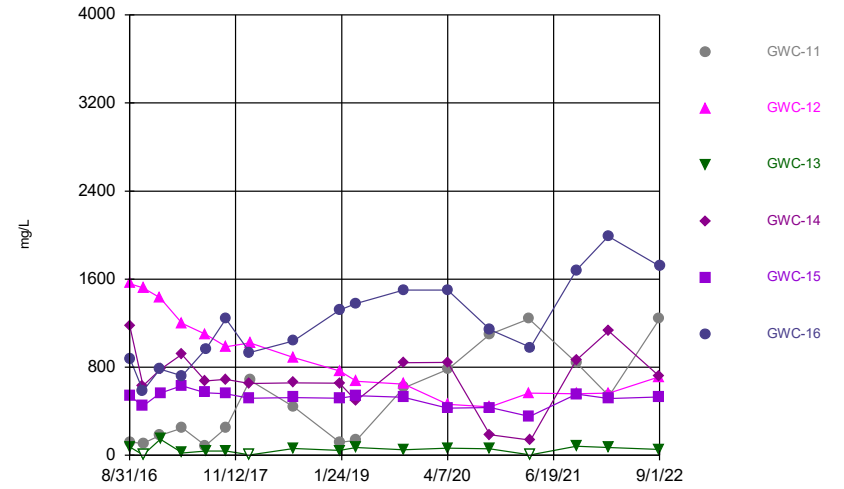
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/6/2022 9:45 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

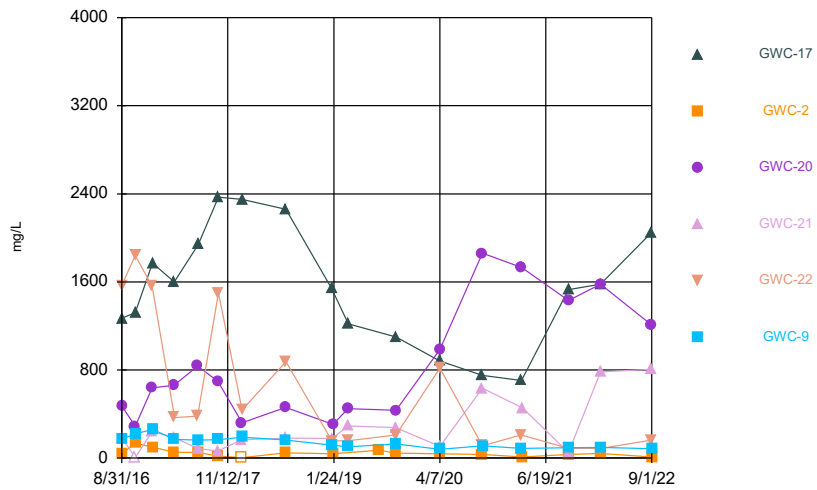
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/6/2022 9:45 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

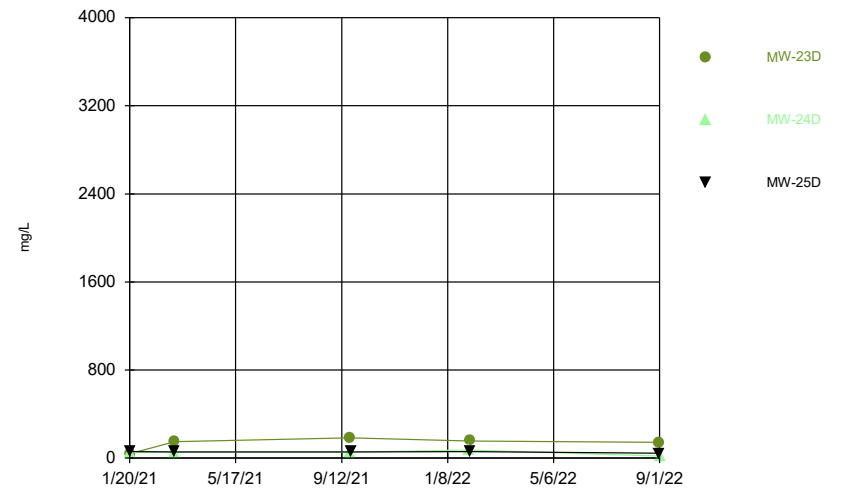
Hollow symbols indicate censored values.

Time Series



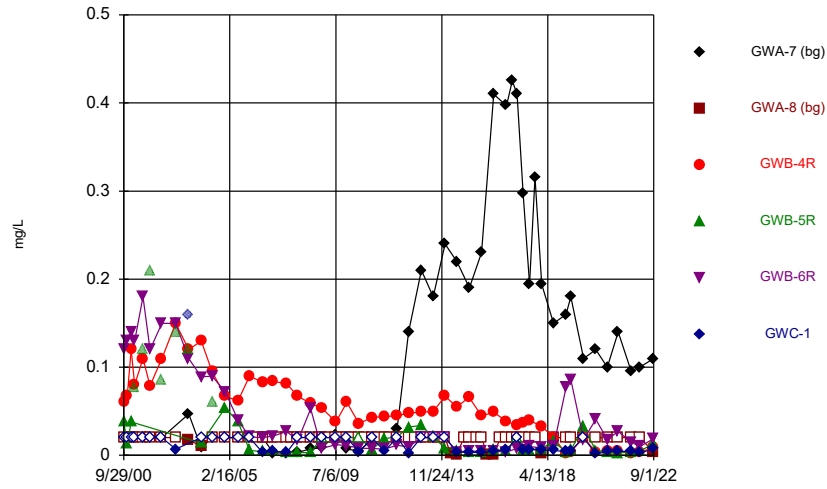
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



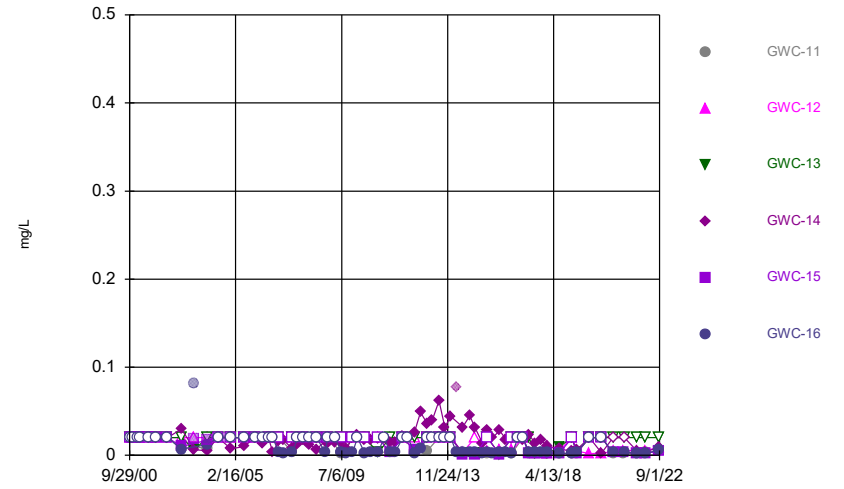
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



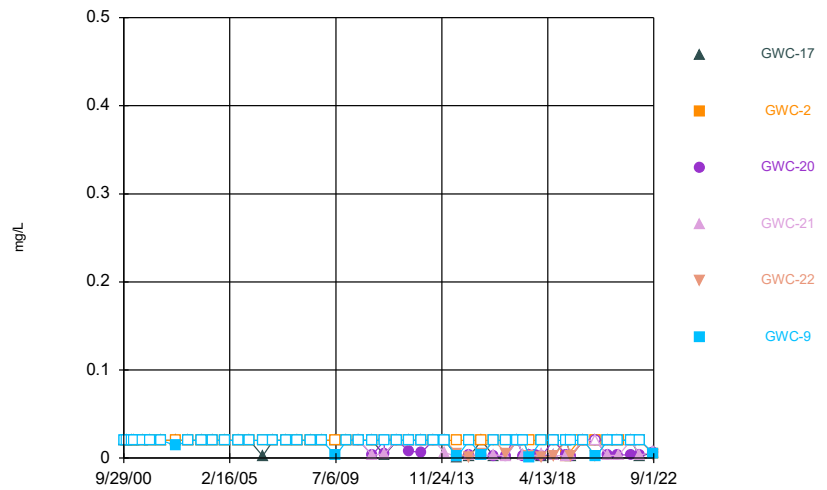
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



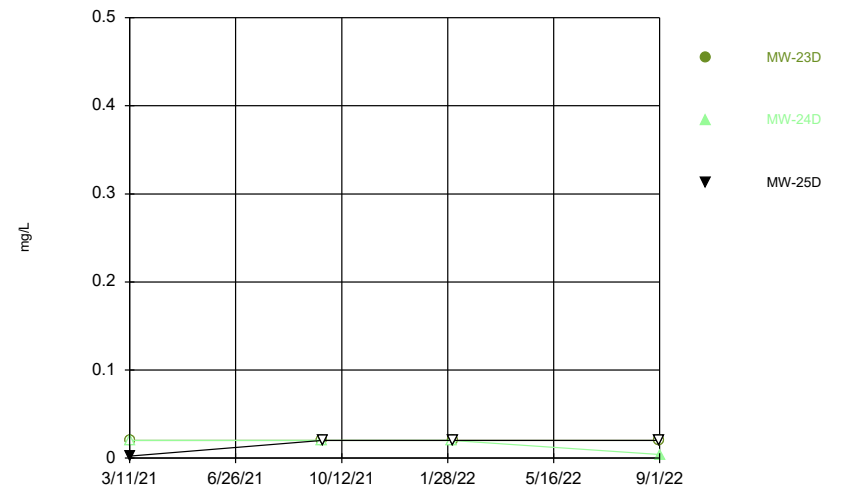
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



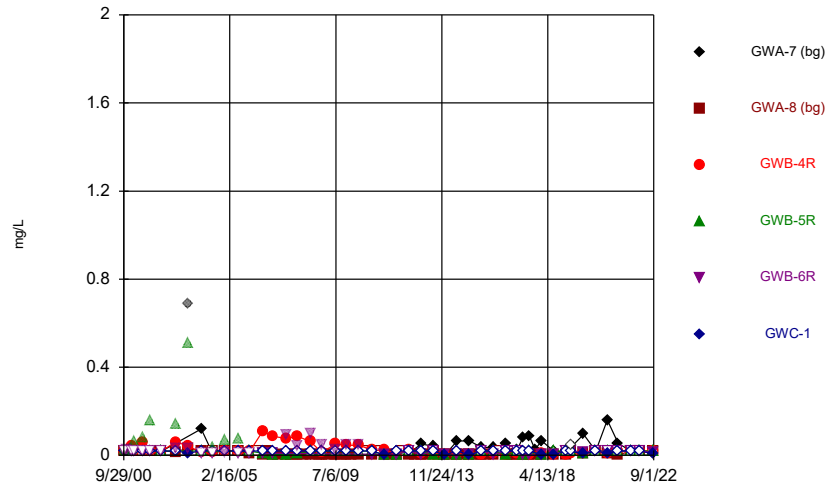
Constituent: Vanadium Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



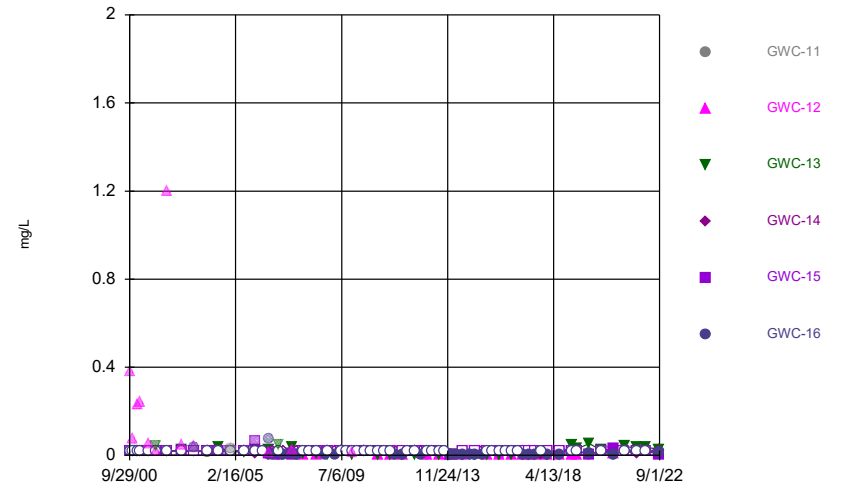
Constituent: Vanadium Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



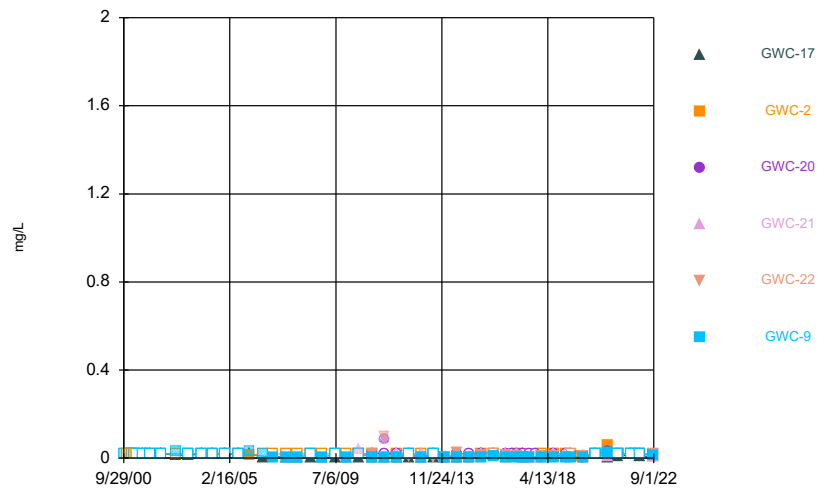
Constituent: Zinc Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



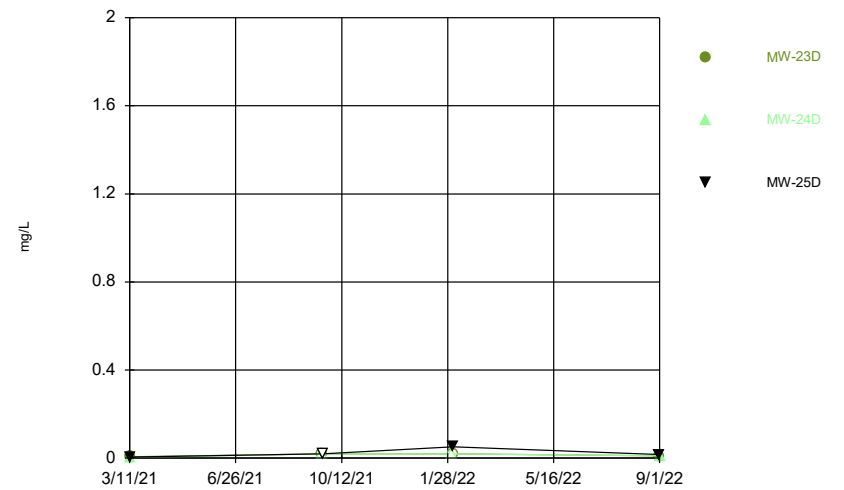
Constituent: Zinc Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 11/6/2022 9:45 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003		<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006		<0.003				
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006		<0.003				
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/15/2007		<0.003				
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007		<0.003				
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008		<0.003				
6/23/2008	<0.003	<0.003				
6/24/2008			<0.003	<0.003	<0.003	<0.003
11/3/2008		<0.003				
12/4/2008	<0.003	<0.003				
12/5/2008			<0.003	<0.003	<0.003	<0.003
3/25/2009		<0.003				
7/7/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009		<0.003				
12/20/2009	<0.003	<0.003				<0.003
12/21/2009			<0.003	<0.003	<0.003	
3/4/2010		<0.003				
6/20/2010	<0.003	<0.003		<0.003	<0.003	<0.003
6/21/2010			<0.003			
9/14/2010		<0.003				
1/6/2011				<0.003		<0.003
1/7/2011	<0.003	<0.003	<0.003		<0.003	
4/15/2011		<0.003				
7/7/2011	<0.003	<0.003		<0.003	<0.003	<0.003
7/8/2011			<0.003			
9/25/2011		<0.003				
1/17/2012	<0.003	<0.003		<0.003		<0.003
1/18/2012			<0.003		<0.003	
4/4/2012		<0.003				
7/9/2012	<0.003			<0.003		<0.003
7/10/2012		<0.003	<0.003		<0.003	
10/9/2012		<0.003				
1/17/2013				<0.003		<0.003
1/18/2013	<0.003	<0.003	<0.003		<0.003	
4/5/2013		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.003		<0.003
7/17/2013	<0.003	<0.003	<0.003		<0.003	
10/11/2013		<0.003				
1/13/2014	<0.003			<0.003		<0.003
1/14/2014		<0.003	<0.003		<0.003	
4/3/2014		<0.003				
7/9/2014	0.0022 (J)	<0.003	0.002 (J)	<0.003	<0.003	<0.003
10/24/2014		<0.003				
1/12/2015			<0.003			
1/13/2015	<0.003			<0.003		<0.003
1/14/2015		<0.003			<0.003	
5/10/2015		<0.003				
7/16/2015	0.0028 (J)		0.0021 (J)	<0.003		<0.003
7/17/2015		<0.003			<0.003	
10/6/2015		<0.003				
1/17/2016						<0.003
1/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	
4/26/2016		<0.003				
7/27/2016	<0.003			<0.003		<0.003
7/28/2016		<0.003			<0.003	
7/29/2016			0.0003 (J)			
8/30/2016		<0.003		<0.003	<0.003	<0.003
9/1/2016	0.0017 (J)		<0.003			
10/24/2016		<0.003				
10/25/2016	<0.003					<0.003
10/26/2016			<0.003	<0.003	<0.003	
1/3/2017		<0.003		<0.003		
1/4/2017						<0.003
1/5/2017					<0.003	
1/6/2017	0.0009 (J)		<0.003			
4/3/2017		<0.003				
4/4/2017			<0.003			<0.003
4/6/2017	<0.003			<0.003	<0.003	
7/11/2017		<0.003				
7/12/2017			<0.003	<0.003	<0.003	<0.003
7/13/2017	0.0013 (J)					
10/2/2017		<0.003				
10/3/2017				<0.003	<0.003	<0.003
10/4/2017	0.0008 (J)		<0.003			
1/9/2018	<0.003	<0.003			<0.003	
1/10/2018				<0.003		<0.003
1/11/2018			<0.003			
7/9/2018		<0.003				
7/10/2018				<0.003	<0.003	<0.003
7/11/2018	<0.003		<0.003			
1/16/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/25/2019	<0.003	<0.003	<0.003			
3/26/2019				<0.003	<0.003	<0.003
8/26/2019	<0.003	<0.003				
8/27/2019			<0.003		<0.003	<0.003
8/28/2019				0.00054 (J)		
10/7/2019		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	<0.003					
10/9/2019			<0.003	<0.003	<0.003	<0.003
4/6/2020	<0.003	<0.003				
4/7/2020			<0.003	<0.003	<0.003	<0.003
8/17/2020		<0.003				
8/19/2020	<0.003		<0.003	<0.003	<0.003	0.00061 (J)
9/28/2020	<0.003	<0.003				0.00035 (J)
9/30/2020				0.0003 (J)	0.00059 (J)	
10/1/2020			<0.003			
3/10/2021			<0.003	<0.003	0.00029 (J)	0.00069 (J)
3/11/2021	<0.003					
3/12/2021		<0.003				
9/21/2021	<0.003	<0.003	<0.003	0.0013 (J)	<0.003	
9/23/2021						0.0016 (J)
1/31/2022	<0.003	<0.003				
2/2/2022			<0.003		<0.003	
2/3/2022				<0.003		<0.003
8/30/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
9/1/2022						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006				<0.003		<0.003
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006				<0.003		<0.003
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	0.006
2/15/2007				<0.003		<0.003
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007				<0.003		<0.003
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008				<0.003		<0.003
6/23/2008	<0.003	<0.003	<0.003			
6/24/2008				<0.003	<0.003	<0.003
11/3/2008				<0.003		<0.003
12/4/2008	<0.003	<0.003	<0.003	<0.003		
12/5/2008					<0.003	<0.003
3/25/2009				<0.003		<0.003
7/8/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009				<0.003		<0.003
12/20/2009				<0.003	<0.003	<0.003
12/21/2009	<0.003	<0.003	<0.003			
3/4/2010				<0.003		<0.003
6/20/2010	<0.003	<0.003	<0.003	<0.003	<0.003	
6/21/2010						<0.003
9/14/2010				<0.003		<0.003
1/6/2011	<0.003		<0.003			
1/7/2011		<0.003		<0.003	<0.003	<0.003
4/15/2011				<0.003		<0.003
7/7/2011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/25/2011				<0.003		<0.003
1/17/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
1/18/2012						<0.003
4/4/2012				<0.003		<0.003
7/9/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
7/10/2012						<0.003
10/9/2012				<0.003		<0.003
1/17/2013	<0.003	<0.003	<0.003			
1/18/2013				<0.003	<0.003	<0.003
4/5/2013				<0.003		<0.003
7/16/2013	<0.003	<0.003	<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.003	<0.003	<0.003
10/11/2013				0.005		<0.003
1/13/2014	<0.003	<0.003	<0.003		<0.003	
1/14/2014				<0.003		<0.003
4/3/2014				<0.003		<0.003
7/8/2014	<0.003	<0.003	<0.003			
7/9/2014				<0.003	<0.003	<0.003
10/24/2014				<0.003		<0.003
1/13/2015	<0.003	<0.003	<0.003		<0.003	
1/14/2015				<0.003		<0.003
5/10/2015				<0.003		
5/11/2015						<0.003
7/16/2015	<0.003	<0.003	<0.003		<0.003	<0.003
7/17/2015				<0.003		
10/6/2015				<0.003		<0.003
1/17/2016				<0.003	<0.003	<0.003
1/18/2016		<0.003	<0.003			
1/19/2016	<0.003					
4/26/2016				<0.003		<0.003
7/26/2016	0.0005 (J)		0.0006 (J)			
7/27/2016		<0.003		<0.003	<0.003	
7/28/2016						<0.003
8/31/2016	<0.003	<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/25/2016				<0.003	<0.003	<0.003
10/26/2016	<0.003	<0.003	<0.003			
1/4/2017	<0.003	<0.003				<0.003
1/5/2017			<0.003	<0.003	<0.003	
4/3/2017					<0.003	
4/4/2017				<0.003		
4/5/2017		<0.003				<0.003
4/6/2017	0.0006 (J)		<0.003			
7/10/2017		<0.003				
7/11/2017	0.0009 (J)			<0.003	<0.003	
7/12/2017			<0.003			<0.003
10/2/2017				<0.003	<0.003	
10/3/2017	<0.003					<0.003
10/4/2017		<0.003	<0.003			
1/9/2018				<0.003	<0.003	
1/10/2018			<0.003			<0.003
1/11/2018	0.0007 (J)	<0.003				
7/9/2018				<0.003		
7/10/2018					<0.003	<0.003
7/11/2018	<0.003	<0.003	<0.003			
1/16/2019			<0.003	<0.003		
1/17/2019	<0.003	<0.003			<0.003	<0.003
3/26/2019			<0.003	<0.003	<0.003	<0.003
3/27/2019	<0.003	<0.003				
8/27/2019	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	
8/28/2019						<0.003
10/8/2019	0.00046 (J)		<0.003	<0.003	<0.003	<0.003
10/9/2019		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00066 (J)	<0.003		<0.003	<0.003	<0.003
4/8/2020			<0.003			
8/17/2020		<0.003	<0.003			
8/18/2020	0.00064 (J)			<0.003	<0.003	<0.003
9/28/2020			<0.003			
9/29/2020	0.00051 (J)	<0.003		<0.003		
9/30/2020					<0.003	<0.003
3/10/2021	0.00076 (J)	0.0003 (J)				
3/12/2021					0.0018 (J)	
3/15/2021			<0.003			
3/16/2021				<0.003		<0.003
9/21/2021	<0.003	<0.003	<0.003			
9/22/2021				<0.003		<0.003
9/23/2021					<0.003	
2/1/2022						<0.003
2/2/2022				<0.003		
2/3/2022	<0.003	<0.003	<0.003		<0.003	
8/30/2022		<0.003		<0.003		
8/31/2022	<0.003		<0.003		<0.003	
9/1/2022						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.003					<0.003
11/21/2000	<0.003	<0.003				<0.003
1/20/2001	<0.003	<0.003				<0.003
3/14/2001	<0.003	<0.003				<0.003
7/16/2001	<0.003	<0.003				<0.003
11/1/2001	<0.003	<0.003				<0.003
4/25/2002	<0.003	<0.003				<0.003
11/20/2002	<0.003	<0.003				<0.003
6/6/2003	<0.003	<0.003				<0.003
12/12/2003	<0.003	<0.003				<0.003
5/26/2004	<0.003	<0.003				<0.003
12/7/2004	<0.003	<0.003				<0.003
6/21/2005	<0.003	<0.003				<0.003
12/12/2005	<0.003	<0.003				<0.003
6/27/2006	<0.003	<0.003				<0.003
12/4/2006	<0.003	<0.003				<0.003
6/23/2007	<0.003	<0.003				<0.003
12/11/2007	<0.003	<0.003				<0.003
6/23/2008						<0.003
6/24/2008	<0.003	<0.003				
12/4/2008		<0.003				<0.003
12/5/2008	<0.003					
7/8/2009	<0.003	<0.003				<0.003
12/20/2009		<0.003				
12/21/2009	<0.003					<0.003
6/20/2010		<0.003				<0.003
6/21/2010	<0.003		<0.003	<0.003	<0.003	
1/6/2011		<0.003				
1/7/2011	<0.003		<0.003	<0.003	<0.003	<0.003
7/7/2011			<0.003			
7/8/2011	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2012		<0.003				
1/18/2012	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2012		<0.003				
7/10/2012	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2013		<0.003				
1/18/2013	<0.003		<0.003	<0.003	<0.003	<0.003
7/17/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/13/2014		<0.003				
1/14/2014	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2014	<0.003	<0.003		<0.003		<0.003
7/10/2014			<0.003		<0.003	
1/12/2015			<0.003			
1/13/2015		<0.003				
1/14/2015	<0.003			<0.003	<0.003	<0.003
7/16/2015		<0.003				
7/17/2015				<0.003		<0.003
7/18/2015	<0.003		<0.003		<0.003	
1/17/2016		<0.003	<0.003	<0.003		
1/18/2016	<0.003				<0.003	<0.003
7/27/2016		<0.003				
7/28/2016			0.0019 (J)	<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.003				<0.003	
8/31/2016		<0.003			<0.003	<0.003
9/1/2016	<0.003		<0.003	<0.003		
10/25/2016			<0.003	<0.003		
10/26/2016	<0.003	<0.003			<0.003	
10/27/2016						0.0016 (J)
1/4/2017			<0.003	<0.003	<0.003	
1/5/2017	<0.003	<0.003				
1/6/2017						<0.003
4/4/2017		<0.003	<0.003	<0.003		
4/5/2017	<0.003					
4/6/2017					<0.003	<0.003
7/11/2017			<0.003		<0.003	
7/12/2017						<0.003
7/13/2017	<0.003	<0.003		<0.003		
10/2/2017			<0.003			
10/3/2017		<0.003		<0.003		
10/4/2017	<0.003				<0.003	<0.003
1/9/2018				<0.003		
1/10/2018		<0.003	<0.003			
1/11/2018	<0.003				<0.003	<0.003
7/9/2018			<0.003			
7/10/2018		<0.003		<0.003		
7/11/2018	<0.003				<0.003	<0.003
1/16/2019	<0.003					
1/17/2019				<0.003		
1/18/2019					<0.003	<0.003
1/21/2019		<0.003	<0.003			
3/25/2019			<0.003			
3/26/2019	<0.003			<0.003		
3/27/2019					<0.003	<0.003
7/30/2019		<0.003				
8/27/2019		<0.003			0.00045 (J)	
8/28/2019	<0.003		<0.003	<0.003		<0.003
10/8/2019				<0.003		
10/9/2019	<0.003	<0.003	<0.003		<0.003	<0.003
4/7/2020				<0.003	0.00049 (J)	
4/8/2020	<0.003	0.0013 (J)	<0.003			0.00033 (J)
8/18/2020	<0.003	<0.003	<0.003	<0.003	0.0022 (J)	
8/19/2020						<0.003
9/29/2020		0.0016 (J)				
9/30/2020	<0.003		<0.003	0.00033 (J)	0.0016 (J)	
10/1/2020						<0.003
3/10/2021					0.0004 (J)	<0.003
3/11/2021	0.00039 (J)					
3/12/2021			0.00065 (J)			
3/15/2021		<0.003				
3/16/2021				<0.003		
9/21/2021					<0.003	
9/22/2021	0.0014 (J)	<0.003	<0.003	<0.003		<0.003
2/1/2022	<0.003		<0.003	<0.003		
2/2/2022		<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.003	
8/30/2022			<0.003	<0.003		
8/31/2022	<0.003				<0.003	
9/1/2022		<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.003	<0.003	<0.003
9/22/2021	<0.003	<0.003	
9/23/2021			<0.003
2/1/2022		<0.003	
2/3/2022	<0.003		<0.003
8/31/2022	<0.003		<0.003
9/1/2022		<0.003	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005		<0.005	<0.005	<0.005	<0.005
1/20/2001	<0.005	<0.005	0.01	<0.005	0.014	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	0.014	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	0.023	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		<0.005	0.0096	0.022	0.014	<0.005
6/6/2003	0.02	<0.005	0.0076	0.07 (O)	0.014	0.03 (O)
12/12/2003	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005
5/26/2004	<0.005	<0.005	0.0068	0.0074	0.0082	<0.005
12/7/2004	<0.005	<0.005	0.0066	0.017	0.0062	<0.005
6/21/2005	<0.005	<0.005	<0.005	0.013	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006		<0.005				
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006		<0.005				
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007		<0.005				
6/23/2007	<0.005	<0.005	<0.005	<0.005	0.0053	<0.005
9/11/2007		<0.005				
12/11/2007	<0.005	<0.005	<0.005	<0.005	0.0057	<0.005
3/11/2008		<0.005				
6/23/2008	<0.005	<0.005				
6/24/2008			0.005	<0.005	0.012	<0.005
11/3/2008		<0.005				
12/4/2008	<0.005	<0.005				
12/5/2008			<0.005	<0.005	0.0064	<0.005
3/25/2009		<0.005				
7/7/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/14/2009		<0.005				
12/20/2009	<0.005	<0.005				<0.005
12/21/2009			<0.005	<0.005	<0.005	
3/4/2010		<0.005				
6/20/2010	<0.005	<0.005		<0.005	0.017	<0.005
6/21/2010			0.018 (O)			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.005
1/7/2011	<0.005	<0.005	<0.005		<0.005	
4/15/2011		<0.005				
7/7/2011	<0.005	<0.005		<0.005	<0.005	<0.005
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.005	<0.005		<0.005		0.0071
1/18/2012			<0.005		<0.005	
4/4/2012		<0.005				
7/9/2012	0.0052			<0.005		0.0076
7/10/2012		<0.005	0.0052		<0.005	
10/9/2012		<0.005				
1/17/2013				<0.005		0.0086
1/18/2013	0.0087	<0.005	<0.005		<0.005	
4/5/2013		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		<0.005
7/17/2013	0.0084	<0.005	<0.005		<0.005	
10/11/2013		<0.005				
1/13/2014	0.009			<0.005		<0.005
1/14/2014		<0.005	<0.005		<0.005	
4/3/2014		<0.005				
7/9/2014	0.008	<0.005	0.0023 (J)	<0.005	<0.005	0.0022 (J)
10/24/2014		<0.005				
1/12/2015			0.0028 (J)			
1/13/2015	0.0077			<0.005		<0.005
1/14/2015		<0.005			<0.005	
5/10/2015		<0.005				
7/16/2015	0.0077		<0.005	<0.005		0.0037 (J)
7/17/2015		<0.005			<0.005	
10/6/2015		<0.005				
1/17/2016						0.024 (O)
1/18/2016	0.014	<0.005	<0.005	<0.005	<0.005	
4/26/2016		0.0011 (J)				
7/27/2016	0.0111			0.0008 (J)		0.0046 (J)
7/28/2016		<0.005			0.0009 (J)	
7/29/2016			0.0014 (J)			
8/30/2016		<0.005		<0.005	<0.005	0.0023 (J)
9/1/2016	0.0287		0.0033 (J)			
10/24/2016		<0.005				
10/25/2016	0.0069					0.0035 (J)
10/26/2016			0.0016 (J)	<0.005	<0.005	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0018 (J)
1/5/2017					0.0021 (J)	
1/6/2017	0.0097		<0.005			
4/3/2017		0.0006 (J)				
4/4/2017			0.0021 (J)			0.0015 (J)
4/6/2017	0.0104			0.0006 (J)	0.0011 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)
7/13/2017	0.0064					
10/2/2017		0.0006 (J)				
10/3/2017				0.001 (J)	0.0014 (J)	0.0013 (J)
10/4/2017	0.0078		0.0018 (J)			
1/9/2018	0.0091 (J)	0.0009 (J)			0.0017 (J)	
1/10/2018				0.0012 (J)		0.0023 (J)
1/11/2018			0.0015 (J)			
7/9/2018		<0.005				
7/10/2018				0.0016 (J)	0.00063 (J)	0.0031 (J)
7/11/2018	<0.005		0.00095 (J)			
1/16/2019	<0.005	<0.005	0.0024 (J)	0.0011 (J)	<0.005	0.0023 (J)
3/25/2019	0.0029 (J)	<0.005	0.0029 (J)			
3/26/2019				0.0014 (J)	0.0029 (J)	0.0032 (J)
8/26/2019	0.0041 (J)	<0.005				
8/27/2019			0.0023 (J)		0.0035 (J)	0.0022 (J)
8/28/2019				0.0023 (J)		
10/7/2019		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.003 (J)					
10/9/2019			0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)
4/6/2020	<0.005	0.00045 (J)				
4/7/2020			0.0027 (J)	0.0011 (J)	<0.005	0.027
8/17/2020		<0.005				
8/19/2020	0.006 (J)		0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007
9/28/2020	<0.005	<0.005				0.0058
9/30/2020				0.0017 (J)	0.004 (J)	
10/1/2020			0.0027 (J)			
3/10/2021			0.0025 (J)	0.0019 (J)	0.0054	0.0055
3/11/2021	0.0047 (J)					
3/12/2021		<0.005				
9/21/2021	<0.005	<0.005	0.0027 (J)	<0.005	0.0054	
9/23/2021						0.0048 (J)
1/31/2022	<0.005	<0.005				
2/2/2022			0.0036 (J)		0.01	
2/3/2022				0.0029 (J)		0.0057
8/30/2022	0.00321 (J)	<0.005	0.0049 (J)	0.00253 (J)	0.00716	
9/1/2022						0.00568

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	0.094
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	0.059
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.087
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.075
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.11
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
11/20/2002	<0.005	<0.005	<0.005	0.011	<0.005	0.15
6/6/2003	<0.005	<0.005	<0.005	<0.005	<0.005	1.2 (O)
12/12/2003	<0.005	<0.005	0.0064	<0.005	<0.005	0.27 (O)
5/26/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
12/7/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
6/21/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.065
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081
4/4/2006				<0.005		0.077
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
8/30/2006				<0.005		0.08
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.085
2/15/2007				<0.005		0.09
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
9/11/2007				<0.005		0.088
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.088
3/11/2008				<0.005		0.071
6/23/2008	<0.005	<0.005	<0.005			
6/24/2008				<0.005	<0.005	0.097
11/3/2008				<0.005		0.089
12/4/2008	<0.005	<0.005	<0.005	<0.005		
12/5/2008					<0.005	0.092
3/25/2009				<0.005		0.095
7/8/2009	<0.005	<0.005	<0.005	<0.005	0.0052	0.11
9/14/2009				<0.005		0.099
12/20/2009				<0.005	<0.005	0.1
12/21/2009	<0.005	<0.005	<0.005			
3/4/2010				<0.005		0.074
6/20/2010	<0.005	<0.005	<0.005	<0.005	0.0068	
6/21/2010						0.056
9/14/2010				<0.005		0.067
1/6/2011	<0.005		<0.005			
1/7/2011		<0.005		<0.005	<0.005	0.066
4/15/2011				<0.005		0.08
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	0.054
9/25/2011				<0.005		0.085
1/17/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
1/18/2012						0.089
4/4/2012				<0.005		0.0473
7/9/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
7/10/2012						0.07
10/9/2012				<0.005		0.088
1/17/2013	<0.005	<0.005	<0.005			
1/18/2013				<0.005	0.0089	0.063
4/5/2013				<0.005		0.06
7/16/2013	<0.005	<0.005	<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.005	0.011	0.063
10/11/2013				0.005		0.059
1/13/2014	<0.005	<0.005	<0.005		0.017	
1/14/2014				<0.005		0.077
4/3/2014				<0.005		0.091
7/8/2014	<0.005	<0.005	<0.005			
7/9/2014				<0.005	0.014	0.08
10/24/2014				<0.005		0.073
1/13/2015	<0.005	<0.005	<0.005		0.011	
1/14/2015				<0.005		0.079
5/10/2015				<0.005		
5/11/2015						0.058
7/16/2015	<0.005	<0.005	<0.005		0.02	0.068
7/17/2015				<0.005		
10/6/2015				<0.005		0.078
1/17/2016				0.002 (J)	0.014	0.089
1/18/2016		<0.005	<0.005			
1/19/2016	<0.005					
4/26/2016				0.00183 (J)		0.0731
7/26/2016	<0.005		<0.005			
7/27/2016		<0.005		0.0021 (J)	0.0303	
7/28/2016						0.0627
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				0.0024 (J)	0.0533	0.0551
10/25/2016				<0.005	0.0551	0.0466
10/26/2016	<0.005	<0.005	<0.005			
1/4/2017	<0.005	<0.005				0.0444
1/5/2017			<0.005	0.0024 (J)	0.0437	
4/3/2017					0.0713	
4/4/2017				0.003 (J)		
4/5/2017		0.0006 (J)				0.0591
4/6/2017	<0.005		<0.005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.005			0.0019 (J)	0.0745	
7/12/2017			<0.005			0.0776
10/2/2017				0.0026 (J)	0.0723	
10/3/2017	<0.005					0.0813
10/4/2017		0.0009 (J)	<0.005			
1/9/2018				0.0021 (J)	0.0731	
1/10/2018			0.0006 (J)			0.085
1/11/2018	<0.005	<0.005				
7/9/2018				0.0019 (J)		
7/10/2018					0.09	0.067
7/11/2018	<0.005	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.005	<0.005			0.13	0.079
3/26/2019			0.00058 (J)	0.0023 (J)	0.1	0.089
3/27/2019	<0.005	<0.005				
8/27/2019	<0.005	<0.005	<0.005	0.0017 (J)	0.17	
8/28/2019						0.091
10/8/2019	<0.005		<0.005	0.0017 (J)	0.13	0.088
10/9/2019		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	<0.005	<0.005		0.0018 (J)	0.24	0.091
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	<0.005			0.0012 (J)	0.28	0.045
9/28/2020			<0.005			
9/29/2020	<0.005	<0.005		<0.005		
9/30/2020					0.24	0.044
3/10/2021	<0.005	<0.005				
3/12/2021					0.16	
3/15/2021			<0.005			
3/16/2021				<0.005		0.064
9/21/2021	<0.005	<0.005	<0.005			
9/22/2021				0.0014 (J)		0.081
9/23/2021					0.21	
2/1/2022						0.095
2/2/2022				0.0036 (J)		
2/3/2022	<0.005	0.0016 (J)	0.0025 (J)		0.23	
8/30/2022		<0.005		<0.005		
8/31/2022	<0.005		<0.005		0.259	
9/1/2022						0.0987

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	<0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				<0.005
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		0.29	0.013 (O)	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		0.2	<0.005	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		0.19	<0.005	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		0.058	<0.005	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		0.18	<0.005	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.22	0.0061	<0.005	<0.005
7/17/2013	<0.005	<0.005	0.45	<0.005	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		0.52	0.006	<0.005	<0.005
7/9/2014	<0.005	<0.005		<0.005		<0.005
7/10/2014			0.4		0.0027 (J)	
1/12/2015			0.43			
1/13/2015		<0.005				
1/14/2015	<0.005			<0.005	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				<0.005		<0.005
7/18/2015	<0.005		0.26		<0.005	
1/17/2016		<0.005	0.34	0.0065		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		<0.005				
7/28/2016			0.209	<0.005		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.002 (J)	
8/31/2016		<0.005			0.0017 (J)	<0.005
9/1/2016	<0.005		0.215	0.0039 (J)		
10/25/2016			0.307	<0.005		
10/26/2016	<0.005	<0.005			<0.005	
10/27/2016						<0.005
1/4/2017			0.311	<0.005	<0.005	
1/5/2017	<0.005	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	0.317	0.0031 (J)		
4/5/2017	0.0011 (J)					
4/6/2017					0.0006 (J)	<0.005
7/11/2017			0.299		0.0012 (J)	
7/12/2017						<0.005
7/13/2017	0.0016 (J)	<0.005		<0.005		
10/2/2017			0.216			
10/3/2017		<0.005		<0.005		
10/4/2017	0.0019 (J)				0.0025 (J)	<0.005
1/9/2018				0.0033 (J)		
1/10/2018		0.0006 (J)	0.347			
1/11/2018	0.0015 (J)				0.0006 (J)	<0.005
7/9/2018			0.37			
7/10/2018		<0.005		0.0027 (J)		
7/11/2018	0.00082 (J)				0.0011 (J)	<0.005
1/16/2019	<0.005					
1/17/2019				0.0022 (J)		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.44			
3/25/2019			0.41			
3/26/2019	0.0015 (J)			0.0045 (J)		
3/27/2019					<0.005	<0.005
7/30/2019		0.00039 (J)				
8/27/2019		<0.005			0.00044 (J)	
8/28/2019	0.0011 (J)		0.43	0.002 (J)		<0.005
10/8/2019				0.0028 (J)		
10/9/2019	0.0011 (J)	<0.005	0.35		<0.005	<0.005
4/7/2020				<0.005	0.00043 (J)	
4/8/2020	0.0013 (J)	0.00094 (J)	0.33			0.00084 (J)
8/18/2020	<0.005	<0.005	0.3	0.0059	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	0.0012 (J)		0.31	0.0029 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0009 (J)					
3/12/2021			0.27			
3/15/2021		<0.005				
3/16/2021				0.0098		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.23	<0.005		<0.005
2/1/2022	<0.005		0.22	0.02		
2/2/2022		<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.465	0.0271		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			<0.005
1/21/2021	<0.005	<0.005	
3/11/2021	<0.005	<0.005	0.00092 (J)
9/22/2021	<0.005	<0.005	
9/23/2021			<0.005
2/1/2022		<0.005	
2/3/2022	<0.005		<0.005
8/31/2022	<0.005		<0.005
9/1/2022		<0.005	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	0.11	0.16	0.16	0.22	0.16	0.044
11/21/2000	0.12		0.16	0.13	0.21	0.047
1/20/2001	0.11	0.18	0.21	0.19	0.23	0.051
3/14/2001	0.11	0.14	0.18	0.27	0.22	0.048
7/16/2001	0.11	0.14	0.18	0.37	0.22	0.054
11/1/2001	0.11	0.14	0.15	0.61 (O)	0.23	0.063
4/25/2002	0.058	0.088	0.16	0.19	0.15	0.032
6/6/2003	0.19	0.14	0.29	0.72 (O)	0.13	0.046
12/12/2003	0.1	0.13	0.18	0.054	0.034	0.034
5/26/2004	0.084	0.09	0.16	0.18	0.13	0.035
12/7/2004	0.094	0.11	0.16	0.24	0.13	0.024
6/21/2005	0.089	0.084	0.15	0.2	0.07	0.039
12/12/2005	0.089	0.1	0.15	0.074	0.04	0.042
4/4/2006		0.089				
6/27/2006	0.096	0.1	0.19	0.075	0.041	0.033
8/30/2006		0.12				
12/4/2006	0.092	0.086	0.26	0.092	0.048	0.04
2/15/2007		0.088				
6/23/2007	0.08	0.089	0.24	0.089	0.12	0.044
9/11/2007		0.092				
12/11/2007	0.067	0.077	0.21	0.072	0.12	0.049
3/11/2008		0.082				
6/23/2008	0.056	0.086				
6/24/2008			0.13	0.049	0.17	0.038
11/3/2008		0.088				
12/4/2008	0.054	0.081				
12/5/2008			0.12	0.067	0.093	0.06
3/25/2009		0.069				
7/7/2009	0.034	0.078	0.17	0.04	0.06	0.043
9/14/2009		0.079				
12/20/2009	0.034	0.081				0.065
12/21/2009			0.2	0.044	0.11	
3/4/2010		0.065				
6/20/2010	0.062	0.078		0.036	0.11	0.095
6/21/2010			0.22			
9/14/2010		0.076				
1/6/2011				0.075		0.093
1/7/2011	0.039	0.074	0.12		0.025	
4/15/2011		0.065				
7/7/2011	0.036	0.081		0.13	0.025	0.095
7/8/2011			0.15			
9/25/2011		0.078				
1/17/2012	0.041	0.082		0.21		0.1
1/18/2012			0.15		0.03	
4/4/2012		0.0861				
7/9/2012	0.15			0.2		0.11
7/10/2012		0.082	0.14		0.028	
10/9/2012		0.09				
1/17/2013				0.19		0.12
1/18/2013	0.15	0.083	0.15		0.058	
4/5/2013		0.078				
7/16/2013				0.076		0.081

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/17/2013	0.13	0.083	0.14		0.086	
10/11/2013		0.078				
1/13/2014	0.16			0.14		0.096
1/14/2014		0.081	0.16		0.1	
4/3/2014		0.077				
7/9/2014	0.11	0.073	0.12	0.12	0.082	0.066
10/24/2014		0.087				
1/12/2015			0.13			
1/13/2015	0.083			0.13		0.068
1/14/2015		0.079			0.094	
5/10/2015		0.076				
7/16/2015	0.094		0.11	0.12		0.07
7/17/2015		0.061			0.11	
10/6/2015		0.067				
1/17/2016						0.062
1/18/2016	0.22	0.068	0.095	0.12	0.11	
4/26/2016		0.0596				
7/27/2016	0.192			0.112		0.0417
7/28/2016		0.0701			0.105	
7/29/2016			0.0883			
8/30/2016		0.0687		0.135	0.106	0.0545
9/1/2016	0.415 (O)		0.123			
10/24/2016		0.07				
10/25/2016	0.173					0.0504
10/26/2016			0.0863	0.103	0.107	
1/3/2017		0.061		0.118		
1/4/2017						0.0534
1/5/2017					0.107	
1/6/2017	0.167		0.0758			
4/3/2017		0.0612				
4/4/2017			0.091			0.0549
4/6/2017	0.136			0.162	0.111	
7/11/2017		0.0624				
7/12/2017			0.0941	0.157	0.106	0.0614
7/13/2017	0.0891					
10/2/2017		0.0618				
10/3/2017				0.127	0.105	0.0436
10/4/2017	0.113		0.0994			
1/9/2018	0.0901	0.0574			0.0969	
1/10/2018				0.158		0.053
1/11/2018			0.088			
7/9/2018		0.056				
7/10/2018				0.31	0.087	0.059
7/11/2018	0.065		0.071			
1/16/2019	0.062	0.062	0.083	0.054	0.013 (J)	0.054
3/25/2019	0.054	0.064	0.077			
3/26/2019				0.057	0.012 (J)	0.055
8/26/2019	0.11	0.065				
8/27/2019			0.076		0.013	0.054
8/28/2019				0.1		
10/7/2019		0.069				
10/8/2019	0.1					

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/9/2019			0.076	0.13	0.014 (J)	0.058
4/6/2020	0.072	0.057				
4/7/2020			0.09	0.098	0.01 (J)	0.05
8/17/2020		0.051				
8/19/2020	0.1		0.076	0.1	0.064	0.057
9/28/2020	0.095	0.05				0.051
9/30/2020				0.16	0.092	
10/1/2020			0.077			
3/10/2021			0.07	0.096	0.027	0.052
3/11/2021	0.07					
3/12/2021		0.052				
9/21/2021	0.073	0.049	0.098	0.076	0.077	
9/23/2021						0.062
1/31/2022	0.1	0.051				
2/2/2022			0.17		0.026	
2/3/2022				0.062		0.051
8/30/2022	0.133	0.0512	0.134	0.051	0.0266	
9/1/2022						0.0583

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	0.1	0.075	<0.005	0.11	0.028	0.076
11/21/2000	0.082	0.072	0.01	0.15	0.035	0.075
1/20/2001	0.083	0.086	<0.005	0.1	0.032	0.053
3/14/2001	0.075	0.088	0.01	0.095	0.036	0.055
7/16/2001	0.091	0.084	<0.005	0.28 (O)	0.036	0.041
11/1/2001	0.068	0.13	<0.005	0.16	0.036	0.045
4/25/2002	0.066	0.24 (O)	<0.005	0.054	0.045	0.055
6/6/2003	0.085	0.28 (O)	0.028	0.063	0.083 (O)	0.48 (O)
12/12/2003	0.072	0.27 (O)	0.019	0.041	0.094 (O)	0.13 (O)
5/26/2004	0.055	0.31 (O)	<0.005	0.059	0.034	0.055
12/7/2004	0.066	0.46 (O)	0.009	0.076	0.042	0.072
6/21/2005	0.033	0.053	0.0089	0.042	0.039	0.061
12/12/2005	0.034	0.1	0.026	0.048	0.043	0.047
4/4/2006				0.05		0.042
6/27/2006	0.029	0.098	0.029	0.036	0.031	0.042
8/30/2006				0.059		0.05
12/4/2006	0.02	0.068	0.017	0.062	0.043	0.044
2/15/2007				0.079		0.041
6/23/2007	0.017	0.042	0.014	0.03	0.031	0.044
9/11/2007				0.053		0.04
12/11/2007	0.013	0.04	0.011	0.075	0.044	0.0035
3/11/2008				0.052		0.034
6/23/2008	0.012	0.041	0.018			
6/24/2008				0.039	0.057	0.042
11/3/2008				0.082		0.049
12/4/2008	0.011	0.035	0.019	0.079		
12/5/2008					0.041	0.05
3/25/2009				0.093		0.052
7/8/2009	0.012	0.036	0.011	0.039	0.058	0.046
9/14/2009				0.061		0.048
12/20/2009				0.088	0.062	0.062
12/21/2009	0.011	0.028	0.01			
3/4/2010				0.077		0.058
6/20/2010	0.0089	0.025	0.0081	0.075	0.03	
6/21/2010						0.041
9/14/2010				0.093		0.036
1/6/2011	0.014		0.012			
1/7/2011		0.037		0.13	0.049	0.054
4/15/2011				0.086		0.049
7/7/2011	0.018	0.039	0.015	0.051	0.05	0.063
9/25/2011				0.056		0.037
1/17/2012	0.23	0.045	0.0086	0.052	0.044	
1/18/2012						0.034
4/4/2012				0.0519		0.0446
7/9/2012	0.17	0.032	0.01	0.048	0.045	
7/10/2012						0.033
10/9/2012				0.065		0.041
1/17/2013	0.2	0.033	0.014			
1/18/2013				0.045	0.049	0.036
4/5/2013				0.047		0.036
7/16/2013	0.11	0.027	0.012			
7/17/2013				0.032	0.039	0.054

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
10/11/2013				0.028		0.052
1/13/2014	0.083	0.027	0.015		0.038	
1/14/2014				0.036		0.051
4/3/2014				0.038		0.047
7/8/2014	0.066	0.037	0.017			
7/9/2014				0.03	0.031	0.08
10/24/2014				0.025		0.072
1/13/2015	0.053	0.023	0.019		0.041	
1/14/2015				0.04		0.047
5/10/2015				0.026		
5/11/2015						0.053
7/16/2015	0.052	0.03	0.022		0.041	0.059
7/17/2015				0.029		
10/6/2015				0.03		0.053
1/17/2016				0.038	0.048	0.056
1/18/2016		0.032	0.026			
1/19/2016	0.048					
4/26/2016				0.025		0.0721
7/26/2016	0.051		0.0236			
7/27/2016		0.0191		0.0248	0.0487	
7/28/2016						0.0534
8/31/2016	0.0565	0.019	0.0273			
9/1/2016				0.0346	0.0403	0.0445
10/25/2016				0.0248	0.0329	0.0464
10/26/2016	0.0591	0.0197	0.0238			
1/4/2017	0.0598	0.0174				0.0379
1/5/2017			0.0218	0.0245	0.0392	
4/3/2017					0.0439	
4/4/2017				0.0342		
4/5/2017		0.0174				0.0534
4/6/2017	0.0813		0.0204			
7/10/2017		0.0172				
7/11/2017	0.0302			0.0276	0.051	
7/12/2017			0.0161			0.0944
10/2/2017				0.0274	0.047	
10/3/2017	0.103					0.135 (O)
10/4/2017		0.0162	0.0185			
1/9/2018				0.0222	0.0431	
1/10/2018			0.0166			0.0603
1/11/2018	0.166	0.018				
7/9/2018				0.026		
7/10/2018					0.047	0.16 (O)
7/11/2018	0.12	0.014	0.019			
1/16/2019			0.019	0.028		
1/17/2019	0.039	0.017			0.042	0.13
3/26/2019			0.026	0.034	0.047	0.14
3/27/2019	0.053	0.017				
8/27/2019	0.12	0.017	0.024	0.067	0.049	
8/28/2019						0.09
10/8/2019	0.13		0.024	0.085	0.057	0.13
10/9/2019		0.019				
4/7/2020	0.14	0.017		0.073	0.033	0.13

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.027			
8/17/2020		0.018	0.024			
8/18/2020	0.12			0.028	0.03	0.32
9/28/2020			0.029			
9/29/2020	0.14	0.018		0.026		
9/30/2020					0.034	0.14
3/10/2021	0.13	0.028				
3/12/2021					0.038	
3/15/2021			0.034			
3/16/2021				0.037		0.16
9/21/2021	0.12	0.023	0.037			
9/22/2021				0.11		0.26
9/23/2021					0.062	
2/1/2022						0.23
2/2/2022				0.1		
2/3/2022	0.17	0.025	0.038		0.061	
8/30/2022		0.0275		0.0773		
8/31/2022	0.115		0.0379		0.055	
9/1/2022						0.165

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	0.16					0.093
11/21/2000	0.17	0.046				0.095
1/20/2001	0.16	0.036				0.089
3/14/2001	0.17	0.03				0.088
7/16/2001	0.19	0.032				0.096
11/1/2001	0.18	0.029				0.094
4/25/2002	0.15	0.021				0.085
6/6/2003	0.13	0.032				0.09
12/12/2003	0.18	0.021				0.084
5/26/2004	0.17	0.035				0.08
12/7/2004	0.19	0.031				0.098
6/21/2005	0.18	0.028				0.084
12/12/2005	0.17	0.024				0.07
6/27/2006	0.17	0.03				0.083
12/4/2006	0.21	0.031				0.072
6/23/2007	0.17	0.037				0.087
12/11/2007	0.18	0.034				0.082
6/23/2008						0.1
6/24/2008	0.14	0.038				
12/4/2008		0.038				0.12
12/5/2008	0.19					
7/8/2009	0.2	0.053				0.14
12/20/2009		0.047				
12/21/2009	0.23					0.15
6/20/2010		0.046				0.21
6/21/2010	0.25		0.062	0.16	0.11	
1/6/2011		0.063				
1/7/2011	0.21		0.039	0.095	0.12	0.2
7/7/2011			0.06			
7/8/2011	0.13		0.043	0.1	0.094	0.18
1/17/2012		0.06				
1/18/2012	0.26		0.042	0.12	0.087	0.18
7/9/2012		0.05				
7/10/2012	0.19		0.039	0.097	0.1	0.16
1/17/2013		0.058				
1/18/2013	0.17		0.04	0.1	0.078	0.19
7/17/2013	0.18	0.041	0.055	0.069	0.062	0.17
1/13/2014		0.058				
1/14/2014	0.18		0.059	0.086	0.073	0.2
7/9/2014	0.16	0.048		0.065		0.16
7/10/2014			0.067		0.13	
1/12/2015			0.061			
1/13/2015		0.048				
1/14/2015	0.16			0.084	0.065	0.17
7/16/2015		0.048				
7/17/2015				0.071		0.18
7/18/2015	0.012		0.13		0.073	
1/17/2016		0.049	0.08	0.079		
1/18/2016	0.13				0.062	0.2
7/27/2016		0.0796				
7/28/2016			0.164	0.0626		0.234
7/29/2016	0.181				0.0575	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0429			0.0693	0.284
9/1/2016	0.203		0.0976	0.077		
10/25/2016			0.0702	0.0217		
10/26/2016	0.177	0.113 (O)			0.0966	
10/27/2016						0.244
1/4/2017			0.0999	0.0617	0.0975	
1/5/2017	0.142	0.0526				
1/6/2017						0.305
4/4/2017		0.0503	0.136	0.0761		
4/5/2017	0.106					
4/6/2017					0.064	0.249
7/11/2017			0.145		0.0778	
7/12/2017						0.256
7/13/2017	0.0686	0.0529		0.0428		
10/2/2017			0.148			
10/3/2017		0.057		0.0376		
10/4/2017	0.0589				0.156	0.356
1/9/2018				0.0704		
1/10/2018		0.0527	0.0788			
1/11/2018	0.0412				0.0702	0.226
7/9/2018			0.087			
7/10/2018		0.054		0.061		
7/11/2018	0.049				0.12	0.29
1/16/2019	0.063					
1/17/2019				0.061		
1/18/2019					0.052	0.21
1/21/2019		0.05	0.069			
3/25/2019			0.085			
3/26/2019	0.025			0.084		
3/27/2019					0.057	0.19
7/30/2019		0.052				
8/27/2019		0.053			0.097	
8/28/2019	0.026		0.078	0.063		0.17
10/8/2019				0.079		
10/9/2019	0.032	0.05	0.078		0.065	0.18
4/7/2020				0.054	0.1	
4/8/2020	0.055	0.061	0.19			0.15
8/18/2020	0.074	0.05	0.38	0.18	0.085	
8/19/2020						0.17
9/29/2020		0.049				
9/30/2020	0.035		0.35	0.19	0.045	
10/1/2020						0.15
3/10/2021					0.049	0.15
3/11/2021	0.044					
3/12/2021			0.34			
3/15/2021		0.053				
3/16/2021				0.18		
9/21/2021					0.036	
9/22/2021	0.058	0.047	0.42	0.046		0.15
2/1/2022	0.055		0.36	0.24		
2/2/2022		0.052				0.15
2/3/2022					0.038	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			0.21	0.191		
8/31/2022	0.0375				0.0741	
9/1/2022		0.0508				0.151

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	0.076	0.047	0.03
9/22/2021	0.076	0.038	
9/23/2021			0.024
2/1/2022		0.036	
2/3/2022	0.079		0.024
8/31/2022	0.0765		0.0216
9/1/2022		0.0267	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2016		0.0002 (J)		0.0002 (J)	<0.0005	<0.0005
9/1/2016	0.0017 (J)		0.0004 (J)			
10/24/2016		<0.0005				
10/25/2016	0.0002 (J)					<0.0005
10/26/2016			0.0001 (J)	0.0001 (J)	<0.0005	
1/3/2017		0.0002 (J)		0.0001 (J)		
1/4/2017						<0.0005
1/5/2017					<0.0005	
1/6/2017	0.0003 (J)		0.0001 (J)			
4/3/2017		0.0002 (J)				
4/4/2017			0.0001 (J)			<0.0005
4/6/2017	0.0004 (J)			0.0003 (J)	<0.0005	
7/11/2017		0.0002 (J)				
7/12/2017			<0.0005	0.0002 (J)	<0.0005	<0.0005
7/13/2017	0.001 (J)					
10/2/2017		0.0002 (J)				
10/3/2017				0.0002 (J)	<0.0005	<0.0005
10/4/2017	0.0002 (J)		0.0001 (J)			
1/9/2018	<0.0005	0.0002 (J)			<0.0005	
1/10/2018				0.0003 (J)		<0.0005
1/11/2018			0.0001 (J)			
7/9/2018		0.0002 (J)				
7/10/2018				0.00028 (J)	<0.0005	<0.0005
7/11/2018	<0.0005		<0.0005			
8/26/2019	<0.0005	0.00021 (J)				
8/27/2019			<0.0005		<0.0005	<0.0005
8/28/2019				7.6E-05 (J)		
10/7/2019		0.00024 (J)				
10/8/2019	<0.0005					
10/9/2019			<0.0005	<0.0005	<0.0005	<0.0005
4/6/2020	<0.0005	0.00017 (J)				
4/7/2020			<0.0005	<0.0005	<0.0005	<0.0005
8/17/2020		0.00019 (J)				
8/19/2020	<0.0005		<0.0005	<0.0005	5E-05 (J)	<0.0005
9/28/2020	<0.0005	0.00021 (J)				<0.0005
9/30/2020				6.5E-05 (J)	4.6E-05 (J)	
10/1/2020			<0.0005			
3/10/2021			<0.0005	8.2E-05 (J)	<0.0005	<0.0005
3/11/2021	0.00028 (J)					
3/12/2021		0.00023 (J)				
9/21/2021	<0.0005	0.00016 (J)	<0.0005	9.9E-05 (J)	<0.0005	
9/23/2021						<0.0005
1/31/2022	<0.0005	0.00016 (J)				
2/2/2022			<0.0005		<0.0005	
2/3/2022				0.00014 (J)		<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.000219 (J)	<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2022						<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005	0.0011 (J)	<0.0005			
9/1/2016				0.0001 (J)	<0.0005	0.0001 (J)
10/25/2016				<0.0005	<0.0005	<0.0005
10/26/2016	<0.0005	0.0011 (J)	<0.0005			
1/4/2017	<0.0005	0.0009 (J)				9E-05 (J)
1/5/2017			<0.0005	<0.0005	<0.0005	
4/3/2017					<0.0005	
4/4/2017				9E-05 (J)		
4/5/2017		0.0008 (J)				9E-05 (J)
4/6/2017	<0.0005		<0.0005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.0005			<0.0005	<0.0005	
7/12/2017			<0.0005			<0.0005
10/2/2017				<0.0005	<0.0005	
10/3/2017	<0.0005					<0.0005
10/4/2017		0.0006 (J)	<0.0005			
1/9/2018				<0.0005	<0.0005	
1/10/2018			<0.0005			0.0001 (J)
1/11/2018	<0.0005	0.0006 (J)				
7/9/2018				6.2E-05 (J)		
7/10/2018					<0.0005	6E-05 (J)
7/11/2018	<0.0005	0.00061 (J)	5.8E-05 (J)			
8/27/2019	<0.0005	0.00047 (J)	<0.0005	<0.0005	<0.0005	
8/28/2019						8E-05 (J)
10/8/2019	<0.0005		<0.0005	<0.0005	<0.0005	9.8E-05 (J)
10/9/2019		0.00046 (J)				
4/7/2020	<0.0005	0.00051 (J)		<0.0005	<0.0005	<0.0005
4/8/2020			<0.0005			
8/17/2020		0.00046 (J)	<0.0005			
8/18/2020	<0.0005			<0.0005	<0.0005	6.8E-05 (J)
9/28/2020			<0.0005			
9/29/2020	<0.0005	0.00043 (J)		<0.0005		
9/30/2020					<0.0005	8.9E-05 (J)
3/10/2021	4.7E-05 (J)	0.00054				
3/12/2021					<0.0005	
3/15/2021			<0.0005			
3/16/2021				<0.0005		<0.0005
9/21/2021	<0.0005	0.00047 (J)	<0.0005			
9/22/2021				<0.0005		6E-05 (J)
9/23/2021					<0.0005	
2/1/2022						<0.0005
2/2/2022				<0.0005		
2/3/2022	<0.0005	0.00056	<0.0005		<0.0005	
8/30/2022		0.000663		<0.0005		
8/31/2022	<0.0005		<0.0005		<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.0005					<0.0005
11/21/2000	<0.0005	<0.0005				<0.0005
1/20/2001	<0.0005	<0.0005				<0.0005
3/14/2001	<0.0005	<0.0005				<0.0005
7/16/2001	<0.0005	<0.0005				<0.0005
11/1/2001	<0.0005	<0.0005				<0.0005
4/25/2002	<0.0005	<0.0005				<0.0005
8/31/2016		<0.0005			0.0002 (J)	0.0003 (J)
9/1/2016	0.0014 (J)		<0.0005	<0.0005		
10/25/2016			<0.0005	<0.0005		
10/26/2016	0.0016 (J)	0.0003 (J)			0.0002 (J)	
10/27/2016						0.0003 (J)
1/4/2017			<0.0005	<0.0005	0.0001 (J)	
1/5/2017	0.0019 (J)	<0.0005				
1/6/2017						0.0002 (J)
4/4/2017		9E-05 (J)	<0.0005	<0.0005		
4/5/2017	0.0024 (J)					
4/6/2017					<0.0005	0.0003 (J)
7/11/2017			<0.0005		<0.0005	
7/12/2017						0.0003 (J)
7/13/2017	0.0034	<0.0005		<0.0005		
10/2/2017			<0.0005			
10/3/2017		<0.0005		<0.0005		
10/4/2017	0.0037				0.0001 (J)	0.0002 (J)
1/9/2018				<0.0005		
1/10/2018		<0.0005	<0.0005			
1/11/2018	0.0033				<0.0005	0.0003 (J)
7/9/2018			<0.0005			
7/10/2018		<0.0005		<0.0005		
7/11/2018	0.0038				7E-05 (J)	0.0003 (J)
7/30/2019		<0.0005				
8/27/2019		<0.0005			9E-05 (J)	
8/28/2019	0.0017 (J)		<0.0005	<0.0005		0.00022 (J)
10/8/2019				<0.0005		
10/9/2019	0.0018 (J)	<0.0005	<0.0005		<0.0005	0.00023 (J)
4/7/2020				<0.0005	<0.0005	
4/8/2020	0.0017 (J)	8.8E-05 (J)	<0.0005			0.00019 (J)
8/18/2020	0.0016 (J)	5.1E-05 (J)	<0.0005	<0.0005	7.6E-05 (J)	
8/19/2020						0.00022 (J)
9/29/2020		7.5E-05 (J)				
9/30/2020	0.0013 (J)		<0.0005	<0.0005	<0.0005	
10/1/2020						0.0002 (J)
3/10/2021					<0.0005	0.00019 (J)
3/11/2021	0.0012					
3/12/2021			<0.0005			
3/15/2021		7.3E-05 (J)				
3/16/2021				<0.0005		
9/21/2021					<0.0005	
9/22/2021	0.0017	<0.0005	<0.0005	<0.0005		0.00017 (J)
2/1/2022	0.002		<0.0005	<0.0005		
2/2/2022		<0.0005				0.00018 (J)
2/3/2022					<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.0005	<0.0005		
8/31/2022	0.00258				<0.0005	
9/1/2022		<0.0005				<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.0005	<0.0005	8.4E-05 (J)
9/22/2021	<0.0005	<0.0005	
9/23/2021			<0.0005
2/1/2022		<0.0005	
2/3/2022	<0.0005		<0.0005
8/31/2022	<0.0005		<0.0005
9/1/2022		<0.0005	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.117		1.09	1.41	0.875
9/1/2016	11.6		6.48			
10/24/2016		0.126				
10/25/2016	21.4					1.22
10/26/2016			7.57	2.5	1.83	
1/3/2017		0.124		3.39		
1/4/2017						1.3
1/5/2017					3.07	
1/6/2017	20.1		8.34			
4/3/2017		0.105				
4/4/2017			8.18			1.19
4/6/2017	21.8			2.76	3.19	
7/11/2017		0.136				
7/12/2017			7.51	3.55	3.06	1.37
7/13/2017	16.3					
10/2/2017		0.107				
10/3/2017				2.72	2.69	0.765
10/4/2017	21.5		8.88			
1/9/2018	13.9	0.123			2.81	
1/10/2018				3.21		0.876
1/11/2018			6.95			
7/9/2018		0.11				
7/10/2018				7	2.9	0.94
7/11/2018	11.7		6.4			
1/16/2019	9.3	0.13	5.3	5	7.7	0.91
3/25/2019	8.5	0.098	4.4			
3/26/2019				4	7.4	0.77
10/7/2019		0.12				
10/8/2019	6.4					
10/9/2019			5.7	6.8	6.3	0.93
4/6/2020	6.1	0.14				
4/7/2020			5.5	4.6	5.6	1
9/28/2020	4.6	0.15				0.69
9/30/2020				4	4.2	
10/1/2020			5.2			
3/10/2021			4.9	3.9	6.9	0.63
3/11/2021	8					
3/12/2021		0.11				
9/21/2021	4.4	0.13	6.4	4.1	4.2	
9/23/2021						0.59
1/31/2022	3.9	0.13				
2/2/2022			6.2		6.2	
2/3/2022				4.9		0.59
8/30/2022	5.72	0.152	4.95	4.66	7.13	
9/1/2022						0.728

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	0.0688 (J)	5.1	0.261			
9/1/2016				0.071 (J)	9.01 (O)	1.82
10/25/2016				0.0819 (J)	1.66	1.26
10/26/2016	0.083 (J)	5.74	0.211			
1/4/2017	0.0738	6.56				1.46
1/5/2017			0.179	0.0813	1.1	
4/3/2017					1.21	
4/4/2017				0.0723		
4/5/2017		6.49				2
4/6/2017	0.0754		0.112			
7/10/2017		8.13				
7/11/2017	0.0614			0.0734	1.44	
7/12/2017			0.0882			2.95
10/2/2017				0.0748	1.59	
10/3/2017	0.0838					4.15
10/4/2017		5.18	0.116			
1/9/2018				0.0679	1.35	
1/10/2018			0.101			3.68
1/11/2018	0.169	5.16				
7/9/2018				0.061		
7/10/2018					1.2	5.2
7/11/2018	0.3	8.5	0.098			
1/16/2019			0.11	0.046		
1/17/2019	0.065	7			1.1	8.6
3/26/2019			0.35	0.037 (J)	0.95	7.4
3/27/2019	0.089	6.1				
10/8/2019	0.22		0.18	0.048	1.1	8.4
10/9/2019		8.2				
4/7/2020	0.67	5.3		0.061 (J)	0.96	10.5
4/8/2020			0.28			
9/28/2020			0.24			
9/29/2020	1.2	4.7		0.053		
9/30/2020					0.86	8.1
3/10/2021	1.8	6.1				
3/12/2021					0.81	
3/15/2021			0.31			
3/16/2021				0.08		10
9/21/2021	0.8	5.8	0.38			
9/22/2021				0.052		11.5
9/23/2021					0.72	
2/1/2022						16
2/2/2022				0.044		
2/3/2022	0.1	7.5	0.37		0.71	
8/30/2022		8.21		0.046		
8/31/2022	1.65		0.231		0.719	
9/1/2022						15.9

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0196 (J)			12.8	0.096 (JO)
9/1/2016	0.408		3.34	0.62		
10/25/2016			2.54	0.0658 (J)		
10/26/2016	0.5	0.05 (J)			9.81	
10/27/2016						0.0281 (J)
1/4/2017			1.91	0.36	8.94	
1/5/2017	0.676	0.0162 (J)				
1/6/2017						0.0189 (J)
4/4/2017		0.019 (J)	2.77	0.509		
4/5/2017	0.69					
4/6/2017					0.733	0.0181 (J)
7/11/2017			4.14		0.852	
7/12/2017						0.0211 (J)
7/13/2017	0.888	0.023 (J)		0.126		
10/2/2017			4.65			
10/3/2017		0.0266 (J)		0.1		
10/4/2017	1.02				6.05	0.0254 (J)
1/9/2018				0.783		
1/10/2018		0.0203 (J)	1.79			
1/11/2018	1.28				0.838	0.018 (J)
7/9/2018			1.7			
7/10/2018		0.026 (J)		0.5		
7/11/2018	1.6				3.2	0.02 (J)
1/16/2019	1.5					
1/17/2019				0.43		
1/18/2019					0.37	0.018 (J)
1/21/2019		0.018 (J)	1.1			
3/25/2019			1			
3/26/2019	1.2			0.61		
3/27/2019					0.37	0.016 (J)
7/30/2019		0.02 (J)				
10/8/2019				1		
10/9/2019	1.3	0.024 (J)	0.79		0.39	0.019 (J)
4/7/2020				0.24	3.1	
4/8/2020	0.99	0.031 (J)	2.5			0.023 (J)
9/29/2020		0.024 (J)				
9/30/2020	0.86		9.9	2.3	0.25	
10/1/2020						0.028 (J)
3/10/2021					0.32	0.022 (J)
3/11/2021	0.85					
3/12/2021			15.6			
3/15/2021		0.084				
3/16/2021				3.5		
9/21/2021					0.19	
9/22/2021	1.4	0.017 (J)	11.3	0.095		0.015 (J)
2/1/2022	1.8		15.7	4.4		
2/2/2022		0.023 (J)				0.011 (J)
2/3/2022					0.18	
8/30/2022			8.14	5.08		
8/31/2022	2.51				0.271	
9/1/2022		0.0204				0.0187

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.013 (J)
1/21/2021	0.018 (J)	0.014 (J)	
3/11/2021	0.03 (J)	0.019 (J)	0.017 (J)
9/22/2021	0.033 (J)	0.014 (J)	
9/23/2021			0.012 (J)
2/1/2022		0.014 (J)	
2/3/2022	0.03 (J)		0.013 (J)
8/31/2022	0.0283		0.0166
9/1/2022		0.0303	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
11/21/2000	<0.001		<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016		<0.001		<0.001	<0.001	<0.001
9/1/2016	0.0007 (J)		0.0002 (J)			
10/24/2016		<0.001				
10/25/2016	<0.001					<0.001
10/26/2016			<0.001	<0.001	<0.001	
1/3/2017		<0.001		<0.001		
1/4/2017						0.0001 (J)
1/5/2017					<0.001	
1/6/2017	0.0001 (J)		9E-05 (J)			
4/3/2017		<0.001				
4/4/2017			9E-05 (J)			7E-05 (J)
4/6/2017	<0.001			<0.001	<0.001	
7/11/2017		<0.001				
7/12/2017			<0.001	<0.001	<0.001	<0.001
7/13/2017	<0.001					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.001	<0.001
10/4/2017	<0.001		<0.001			
1/9/2018	<0.001	<0.001			<0.001	
1/10/2018				<0.001		<0.001
1/11/2018			0.0002 (J)			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.001	<0.001
7/11/2018	<0.001		<0.001			
8/26/2019	<0.001	<0.001				
8/27/2019			<0.001		<0.001	<0.001
8/28/2019				<0.001		
10/7/2019		<0.001				
10/8/2019	<0.001					
10/9/2019			<0.001	<0.001	<0.001	<0.001
4/6/2020	<0.001	<0.001				
4/7/2020			<0.001	<0.001	<0.001	<0.001
8/17/2020		<0.001				
8/19/2020	<0.001		<0.001	<0.001	<0.001	<0.001
9/28/2020	<0.001	<0.001				<0.001
9/30/2020				<0.001	<0.001	
10/1/2020			<0.001			
3/10/2021			<0.001	<0.001	<0.001	<0.001
3/11/2021	<0.001					
3/12/2021		<0.001				
9/21/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
9/23/2021						<0.001
1/31/2022	<0.001	<0.001				
2/2/2022			<0.001		<0.001	
2/3/2022				<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/1/2022						<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
11/21/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2016	0.0002 (J)	<0.001	<0.001			
9/1/2016				0.0001 (J)	<0.001	<0.001
10/25/2016				0.0002 (J)	<0.001	<0.001
10/26/2016	0.0001 (J)	<0.001	<0.001			
1/4/2017	0.0001 (J)	<0.001				<0.001
1/5/2017			<0.001	0.0002 (J)	<0.001	
4/3/2017					<0.001	
4/4/2017				0.0002 (J)		
4/5/2017		<0.001				<0.001
4/6/2017	0.0002 (J)		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.001			0.0002 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	0.0003 (J)					<0.001
10/4/2017		<0.001	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0006 (J)	<0.001				
7/9/2018				0.00017 (J)		
7/10/2018					<0.001	<0.001
7/11/2018	0.0004 (J)	<0.001	<0.001			
8/27/2019	0.00044 (J)	<0.001	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	0.00043 (J)		<0.001	<0.001	<0.001	<0.001
10/9/2019		<0.001				
4/7/2020	0.00051 (J)	<0.001		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00058 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00077 (J)	<0.001		0.00012 (J)		
9/30/2020					<0.001	<0.001
3/10/2021	0.0009	<0.001				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	0.00036 (J)	<0.001	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	0.00019 (J)	<0.001	<0.001		<0.001	
8/30/2022		<0.001		<0.001		
8/31/2022	0.000431 (J)		<0.001		<0.001	
9/1/2022						<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
11/21/2000	<0.001	<0.001				<0.001
1/20/2001	<0.001	<0.001				<0.001
3/14/2001	<0.001	<0.001				<0.001
7/16/2001	<0.001	<0.001				<0.001
11/1/2001	<0.001	<0.001				<0.001
4/25/2002	<0.001	<0.001				<0.001
8/31/2016		<0.001			8E-05 (J)	<0.001
9/1/2016	<0.001		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	<0.001	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			<0.001	<0.001	0.0001 (J)	
1/5/2017	<0.001	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	<0.001					
4/6/2017					0.0001 (J)	<0.001
7/11/2017			<0.001		<0.001	
7/12/2017						<0.001
7/13/2017	<0.001	<0.001		<0.001		
10/2/2017			<0.001			
10/3/2017		<0.001		<0.001		
10/4/2017	<0.001				0.0002 (J)	<0.001
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	<0.001				0.0002 (J)	<0.001
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	<0.001				0.00023 (J)	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	<0.001		<0.001	<0.001		<0.001
10/8/2019				<0.001		
10/9/2019	<0.001	<0.001	<0.001		0.00012 (J)	<0.001
4/7/2020				<0.001	0.00054 (J)	
4/8/2020	<0.001	<0.001	<0.001			<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	0.00024 (J)	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	<0.001		<0.001	<0.001	0.00024 (J)	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	<0.001					
3/12/2021			0.00018 (J)			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	<0.001	<0.001	0.00013 (J)	<0.001		<0.001
2/1/2022	<0.001		0.0002 (J)	<0.001		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			<0.001	<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	<0.001				<0.001	
9/1/2022		<0.001				<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.001	<0.001	0.00019 (J)
9/22/2021	0.00027 (J)	<0.001	
9/23/2021			<0.001
2/1/2022		<0.001	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		<0.001
9/1/2022		<0.001	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		23.8		14.3	4.68	29.4
9/1/2016	5.59		9.91			
10/24/2016		22.5				
10/25/2016	6.43					28.3
10/26/2016			8.56	18.6	5.45	
1/3/2017		22.1		18.1		
1/4/2017						33.4
1/5/2017					5.35	
1/6/2017	8.13		8.18			
4/3/2017		24.6 (J)				
4/4/2017			8.12			34.6
4/6/2017	7.72			16.2	5.41	
7/11/2017		23.5				
7/12/2017			8	18.1	4.81	38
7/13/2017	4.57					
10/2/2017		22.7				
10/3/2017				15.2	5.17	25.5
10/4/2017	6.41		12.5			
1/9/2018	4.68	23.2			4.73	
1/10/2018				15.5		36.5
1/11/2018			12.9			
7/9/2018		24.6 (J)				
7/10/2018				30.6	4.5	45.5
7/11/2018	3.9		8.6			
1/16/2019	4.3	27.7	68.8	33.3	10.1	46.5
3/25/2019	3.9	31.7	55.6			
3/26/2019				36.1	9	46.3
10/7/2019		31.6				
10/8/2019	3.5					
10/9/2019			46.7	17.7	10.1	51.2
4/6/2020	3.1	35.8				
4/7/2020			62.1	34.1	7.8	31.1
9/28/2020	3.3	25.6				70.7
9/30/2020				70.4	27.5	
10/1/2020			48.4			
3/10/2021			263	134	55.9	67.2
3/11/2021	2.4					
3/12/2021		21.4				
9/21/2021	2.7	18.5	67.5	140	110	
9/23/2021						69.1
1/31/2022	3.4	17.2				
2/2/2022			98.2		293	
2/3/2022				130		58.2
8/30/2022	3.56	15	79.3	70.3	81.8	
9/1/2022						46.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	18.8	105	2.77			
9/1/2016				194	119	93.8
10/25/2016				100	106	94.1
10/26/2016	16.6	101	2.25			
1/4/2017	17.6	94.9				88.2
1/5/2017			2.27	107	115	
4/3/2017					131	
4/4/2017				153		
4/5/2017		92.5				106
4/6/2017	30.9		2.04			
7/10/2017		90.3				
7/11/2017	17.7			125	155	
7/12/2017			2.25			149
10/2/2017				126	137	
10/3/2017	39.8					217
10/4/2017		74.6	2.19			
1/9/2018				119	135	
1/10/2018			2.28			161
1/11/2018	65.6	78.1				
7/9/2018				123		
7/10/2018					129	205
7/11/2018	53	72.2	2.3			
1/16/2019			2.3	120		
1/17/2019	19.8 (J)	64.7			137	187
3/26/2019			2.4	84.2	124	204
3/27/2019	25.1	63.1				
10/8/2019	69.2		2.3	146	129	205
10/9/2019		54.2				
4/7/2020	84.7	52.1		135	129	225
4/8/2020			2.5			
9/28/2020			2.9			
9/29/2020	123	42		30.8		
9/30/2020					109	177
3/10/2021	126	53.1				
3/12/2021					101	
3/15/2021			2.4			
3/16/2021				34.4		188
9/21/2021	87	63.4	3.6			
9/22/2021				185		267
9/23/2021					146	
2/1/2022						267
2/2/2022				245		
2/3/2022	65.4	63.7	2.7		144	
8/30/2022		70.8		144		
8/31/2022	115		2.54		135	
9/1/2022						255

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.371 (J)			127	6.9
9/1/2016	71.9		67.2	40.5		
10/25/2016			50.1	3.91		
10/26/2016	80.3	5.84			127	
10/27/2016						8.2
1/4/2017			80.4	15.2	113	
1/5/2017	94.4	0.379 (J)				
1/6/2017						7.97
4/4/2017		0.993	108	32.3		
4/5/2017	104					
4/6/2017					42.7	7.95
7/11/2017			136		46	
7/12/2017						8.37
7/13/2017	124	0.388 (J)		8.92		
10/2/2017			105			
10/3/2017		0.251 (J)		7.88		
10/4/2017	136				115	8.57
1/9/2018				40.5		
1/10/2018		0.177 (J)	60.1			
1/11/2018	139				47.6	9.78
7/9/2018			75.9			
7/10/2018		0.17 (J)		29.8		
7/11/2018	122				73.7	9.2
1/16/2019	80.5					
1/17/2019				27.6		
1/18/2019					30.6	8.1
1/21/2019		0.19 (J)	60			
3/25/2019			74.8			
3/26/2019	68.8			60.1		
3/27/2019					28.8	7.7
7/30/2019		0.43				
10/8/2019				49.5		
10/9/2019	56.6	0.18	80.1		30.1	6
4/7/2020				12.5	65.7	
4/8/2020	53.1	0.24 (J)	175			5.3
9/29/2020		0.18 (J)				
9/30/2020	53.5		292	98.4	20.9	
10/1/2020						5.5
3/10/2021					18.7	5.3
3/11/2021	67					
3/12/2021			241			
3/15/2021		0.22 (J)				
3/16/2021				104		
9/21/2021					15.3	
9/22/2021	94.6	0.19 (J)	266	5.8		5
2/1/2022	90.8		259	125		
2/2/2022		0.16 (J)				4.6
2/3/2022					14.6	
8/30/2022			193	131		
8/31/2022	102				23.2	
9/1/2022		0.236				5

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			4.9
1/21/2021	4.4	2.8	
3/11/2021	12.4	5.4	4.7
9/22/2021	14.9	4.7	
9/23/2021			3.4
2/1/2022		3.7	
2/3/2022	11.6		3
8/31/2022	10.3		3.38
9/1/2022		2.75	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		15		31	60	5.5
9/1/2016	190		160			
10/24/2016		13				
10/25/2016	175 (D)					5.1
10/26/2016			110	24	67	
1/3/2017		13		29		
1/4/2017						6.9
1/5/2017					70	
1/6/2017	180		67			
4/3/2017		14				
4/4/2017			80			6.5
4/6/2017	200			27	76	
7/11/2017		13				
7/12/2017			120	31	64	6.5
7/13/2017	200					
10/2/2017		15				
10/3/2017				27	73	4.5
10/4/2017	260		130			
1/9/2018	210	13			61	
1/10/2018				59		6.9
1/11/2018			60			
7/9/2018		15.4				
7/10/2018				172	60.2	6.2
7/11/2018	177		75.9			
1/16/2019	165	16	20.2	49.7	54.1	6.6
3/25/2019	147	17.7	19.7			
3/26/2019				47.9	51.8	7
10/7/2019		18				
10/8/2019	125					
10/9/2019			32.1	239	49.7	7.2
4/6/2020	30.2	13.5				
4/7/2020			14.5	44.3	56.4	7.7
9/28/2020	113	13.7				13.8
9/30/2020				24.1	53.9	
10/1/2020			15.7			
3/10/2021			16	25.7	42.4	8.5
3/11/2021	96.7					
3/12/2021		14.1				
9/21/2021	92.2	12.2	13.9	38.8	53.8	
9/23/2021						8.8
1/31/2022	83.4	11.2				
2/2/2022			14.5		42.3	
2/3/2022				38.5		8
8/30/2022	74.4	9.93	65	76.8	52	
9/1/2022						9.17

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	3.5	210	4.3			
9/1/2016				60	10	43
10/25/2016				36	6.5	34
10/26/2016	2.5	200	4.9			
1/4/2017	3.8	160				29
1/5/2017			4.1	37	10	
4/3/2017					7.3	
4/4/2017				47		
4/5/2017		140				36
4/6/2017	7.1		3.7			
7/10/2017		88				
7/11/2017	3.1			34	5.7	
7/12/2017			2.6			44
10/2/2017				34	4.4	
10/3/2017	46					58
10/4/2017		100	3			
1/9/2018				24	5.7	
1/10/2018			3.4			36
1/11/2018	100	78				
7/9/2018				25.9		
7/10/2018					3.1	57
7/11/2018	53.7	66.9	3.2			
1/16/2019			3.8	29.2		
1/17/2019	6.6	52			3.2	48.9
3/26/2019			3.2	21.1	3	5.1
3/27/2019	11.9	45.6				
10/8/2019	89		4	40.2	2.9	46.4
10/9/2019		44.1				
4/7/2020	103	32.5		41.6	3.4	49.3
4/8/2020			4.5			
9/28/2020			4.3			
9/29/2020	143	24.3		10.6		
9/30/2020					1.7	39.6
3/10/2021	188	48.7				
3/12/2021					2.3	
3/15/2021			7.6			
3/16/2021				15.8		44.9
9/21/2021	103	63.8	7.9			
9/22/2021				28		55.8
9/23/2021					7.1	
2/1/2022						61.5
2/2/2022				29.6		
2/3/2022	83.4	57	8.8		5.1	
8/30/2022		58.4		26.7		
8/31/2022	110		6.69		4.83	
9/1/2022						57.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		7.8			320	17
9/1/2016	610		16	5.9		
10/25/2016			8.1	4.4		
10/26/2016	570	12			450	
10/27/2016						17
1/4/2017			13	7.7	330	
1/5/2017	710	7.4				
1/6/2017						16
4/4/2017		8.7	23	8		
4/5/2017	860					
4/6/2017					50	17
7/11/2017			31		70	
7/12/2017						18
7/13/2017	860	8.3		5.4		
10/2/2017			30			
10/3/2017		9		4.4		
10/4/2017	1000				360	18
1/9/2018				4.4		
1/10/2018		8.2	9.7			
1/11/2018	940				74	16
7/9/2018			10.8			
7/10/2018		7.3		6.3		
7/11/2018	864				164	16.2
1/16/2019	469					
1/17/2019				5.4		
1/18/2019					11	17.5
1/21/2019		6.9	5.1			
3/25/2019			9.4			
3/26/2019	439			11.9		
3/27/2019					11.5	18.9
7/30/2019		7.1				
10/8/2019				7.8		
10/9/2019	330	7	5.4		25.3	19
4/7/2020				4.7	146	
4/8/2020	277	5.2	20.2			16.9
9/29/2020		5.4				
9/30/2020	257		34.9	23.7	8.5	
10/1/2020						16.8
3/10/2021					48.2	18.3
3/11/2021	334					
3/12/2021			31.9			
3/15/2021		6.4				
3/16/2021				25.3		
9/21/2021					9.4	
9/22/2021	517	7.4	38.9	6		19.3
2/1/2022	549		33.4	29.3		
2/2/2022		6.9				17.5
2/3/2022					10.8	
8/30/2022			24.4	29.4		
8/31/2022	694				51.2	
9/1/2022		6.59				17.6

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			6.1
1/21/2021	6.1	6.1	
3/11/2021	9.9	6	6.4
9/22/2021	7.1	4.9	
9/23/2021			5.5
2/1/2022		5.4	
2/3/2022	7.5		6.3
8/31/2022	7.84		6.6
9/1/2022		6.3	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.01	<0.01	0.021	0.03	0.016	<0.01
11/21/2000	<0.01		0.017	<0.01	0.023	<0.01
1/20/2001	<0.01	<0.01	0.03	0.028	0.025	<0.01
3/14/2001	<0.01	<0.01	0.019	0.052 (O)	0.021	<0.01
7/16/2001	<0.01	<0.01	0.029	0.08 (O)	0.019	<0.01
11/1/2001	<0.01	<0.01	0.021	0.13 (O)	0.022	<0.01
4/25/2002	<0.01	<0.01	0.03	0.021	0.019	<0.01
11/20/2002		0.0051	0.038	0.053 (O)	0.024	<0.01
6/6/2003	0.037	0.014	0.028	0.064 (O)	0.021	0.005
12/12/2003	0.0044	0.011	0.027	<0.01	0.0066	<0.01
5/26/2004	<0.01	<0.01	0.021	0.012	0.013	<0.01
12/7/2004	<0.01	<0.01	0.016	0.019	0.013	<0.01
6/21/2005	<0.01	<0.01	0.015	0.02	0.0067	<0.01
12/12/2005	<0.01	<0.01	0.022	<0.01	0.0033	0.002
4/4/2006		<0.01				
6/27/2006	<0.01	<0.01	0.027	0.0015	0.0047	<0.01
8/30/2006		<0.01				
12/4/2006	0.0015	<0.01	0.025	0.0034	0.0084	<0.01
2/15/2007		<0.01				
6/23/2007	<0.01	<0.01	0.023	<0.01	0.01	<0.01
9/11/2007		<0.01				
12/11/2007	0.0016	<0.01	0.018	<0.01	0.0049	<0.01
3/11/2008		<0.01				
6/23/2008	0.0019	<0.01				
6/24/2008			0.022	<0.01	0.032 (O)	<0.01
11/3/2008		<0.01				
12/4/2008	<0.01	<0.01				
12/5/2008			0.023	0.0016	0.009	<0.01
3/25/2009		<0.01				
7/7/2009	0.0037	<0.01	0.012	<0.01	0.0044	0.0013
9/14/2009		<0.01				
12/20/2009	0.0016	<0.01				<0.01
12/21/2009			0.019	<0.01	0.0055	
3/4/2010		<0.01				
6/20/2010	<0.01	<0.01		<0.01	0.002	<0.01
6/21/2010			0.01			
9/14/2010		<0.01				
1/6/2011				0.0017		<0.01
1/7/2011	0.0033	<0.01	0.023		0.0039	
4/15/2011		<0.01				
7/7/2011	0.0044	<0.01		0.008	0.0031	<0.01
7/8/2011			0.017			
9/25/2011		0.0021				
1/17/2012	0.0038	<0.01		0.0082		<0.01
1/18/2012			0.0114		0.0023	
4/4/2012		<0.01				
7/9/2012	0.022			0.01		<0.01
7/10/2012		<0.01	0.014		0.0022	
10/9/2012		<0.01				
1/17/2013				0.01		<0.01
1/18/2013	0.034	<0.01	0.015		<0.01	
4/5/2013		<0.01				

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0061		<0.01
7/17/2013	0.032	<0.01	0.011		<0.01	
10/11/2013		<0.01				
1/13/2014	0.04			0.002		<0.01
1/14/2014		<0.01	0.019		0.0013	
4/3/2014		<0.01				
7/9/2014	0.036	<0.01	0.012	<0.01	<0.01	0.0011 (J)
10/24/2014		<0.01				
1/12/2015			0.016			
1/13/2015	0.03			<0.01		<0.01
1/14/2015		<0.01			0.0015	
5/10/2015		<0.01				
7/16/2015	0.039		0.0084	<0.01		0.0011 (J)
7/17/2015		<0.01			0.0011 (J)	
10/6/2015		<0.01				
1/17/2016						<0.01
1/18/2016	0.068	<0.01	0.014	<0.01	0.0011 (J)	
4/26/2016		<0.01				
7/27/2016	0.05			0.0006 (J)		0.0016 (J)
7/28/2016		<0.01			0.001 (J)	
7/29/2016			0.0077 (J)			
8/30/2016		<0.01		<0.01	0.0013 (J)	0.0015 (J)
9/1/2016	0.119 (O)		0.015			
10/24/2016		<0.01				
10/25/2016	0.0519					0.0018 (J)
10/26/2016			0.0106	<0.01	0.0014 (J)	
1/3/2017		<0.01		0.001 (J)		
1/4/2017						0.0021 (J)
1/5/2017					0.002 (J)	
1/6/2017	0.0536		0.0098 (J)			
4/3/2017		0.0004 (J)				
4/4/2017			0.0101			0.002 (J)
4/6/2017	0.0447 (J)			0.0013 (J)	0.0034 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)
7/13/2017	0.0269					
10/2/2017		<0.01				
10/3/2017				0.0012 (J)	0.0022 (J)	0.0014 (J)
10/4/2017	0.0378		0.0097 (J)			
1/9/2018	0.0283 (J)	<0.01			0.0019 (J)	
1/10/2018				0.0016 (J)		0.0017 (J)
1/11/2018			0.0109			
7/9/2018		<0.01				
7/10/2018				0.0055 (J)	0.0023 (J)	0.0021 (J)
7/11/2018	0.018 (J)		0.0055 (J)			
1/16/2019	0.018 (J)	<0.01	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)
3/25/2019	0.017 (J)	<0.01	0.002 (J)			
3/26/2019				0.072	0.017 (J)	0.0018 (J)
8/26/2019	0.024 (J)	0.001 (J)				
8/27/2019			0.0027 (J)		0.0097 (J)	0.0062 (J)
8/28/2019				0.0071 (J)		
10/7/2019		0.00052 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.021 (J)					
10/9/2019			0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)
4/6/2020	0.015 (J)	<0.01				
4/7/2020			0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)
8/17/2020		0.00082 (J)				
8/19/2020	0.015 (J)		0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)
9/28/2020	0.014 (J)	0.00071 (J)				0.0024 (J)
9/30/2020				0.0018 (J)	0.0045 (J)	
10/1/2020			0.002 (J)			
3/10/2021			0.003 (J)	0.001 (J)	0.006	0.0023 (J)
3/11/2021	0.02 (J)					
3/12/2021		0.00074 (J)				
9/21/2021	0.013 (J)	<0.01	0.0018 (J)	<0.01	0.0035 (J)	
9/23/2021						0.0023 (J)
1/31/2022	0.015 (J)	<0.01				
2/2/2022			0.003 (J)		0.0033 (J)	
2/3/2022				0.0014 (J)		0.0019 (J)
8/30/2022	0.0129	<0.01	<0.01	<0.01	0.00356 (J)	
9/1/2022						<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/21/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/25/2002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/20/2002	0.006	0.002	<0.01	0.014	0.0058	0.0041
6/6/2003	0.0082	<0.01	0.003	<0.01	0.0068	0.063 (O)
12/12/2003	0.0023	<0.01	<0.01	<0.01	0.0041	0.0059
5/26/2004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/7/2004	<0.01	<0.01	<0.01	<0.01	0.0026	<0.01
6/21/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/12/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/4/2006				<0.01		<0.01
6/27/2006	<0.01	<0.01	<0.01	<0.01	0.0013	<0.01
8/30/2006				<0.01		<0.01
12/4/2006	0.0021	0.0032	0.0017	0.0042	<0.01	0.0036
2/15/2007				<0.01		<0.01
6/23/2007	0.0017	<0.01	<0.01	<0.01	<0.01	0.0016
9/11/2007				<0.01		<0.01
12/11/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2008				<0.01		<0.01
6/23/2008	<0.01	0.0016	<0.01			
6/24/2008				<0.01	0.0014	<0.01
11/3/2008				<0.01		0.0025
12/4/2008	<0.01	<0.01	<0.01	<0.01		
12/5/2008					<0.01	<0.01
3/25/2009				<0.01		<0.01
7/8/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/14/2009				<0.01		<0.01
12/20/2009				<0.01	<0.01	<0.01
12/21/2009	<0.01	<0.01	<0.01			
3/4/2010				<0.01		<0.01
6/20/2010	<0.01	<0.01	<0.01	<0.01	<0.01	
6/21/2010						<0.01
9/14/2010				<0.01		<0.01
1/6/2011	<0.01		<0.01			
1/7/2011		<0.01		0.0016	<0.01	0.0018
4/15/2011				0.0034		<0.01
7/7/2011	0.0023	<0.01	0.0019	<0.01	<0.01	<0.01
9/25/2011				0.0013		<0.01
1/17/2012	<0.01	<0.01	<0.01	<0.01	<0.01	
1/18/2012						<0.01
4/4/2012				<0.01		<0.01
7/9/2012	0.0017	<0.01	<0.01	<0.01	<0.01	
7/10/2012						<0.01
10/9/2012				0.0019		0.0018
1/17/2013	<0.01	<0.01	<0.01			
1/18/2013				0.0017	<0.01	<0.01
4/5/2013				0.0019		<0.01
7/16/2013	<0.01	<0.01	<0.01			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.0017	<0.01	<0.01
10/11/2013				0.0013		<0.01
1/13/2014	<0.01	<0.01	<0.01		<0.01	
1/14/2014				0.001		<0.01
4/3/2014				0.0031		<0.01
7/8/2014	<0.01	<0.01	<0.01			
7/9/2014				0.0012 (J)	<0.01	<0.01
10/24/2014				<0.01		<0.01
1/13/2015	<0.01	<0.01	<0.01		<0.01	
1/14/2015				0.0013		<0.01
5/10/2015				<0.01		
5/11/2015						<0.01
7/16/2015	<0.01	0.001 (J)	<0.01		<0.01	<0.01
7/17/2015				0.001 (J)		
10/6/2015				<0.01		<0.01
1/17/2016				0.0012 (J)	<0.01	<0.01
1/18/2016		<0.01	<0.01			
1/19/2016	<0.01					
4/26/2016				<0.01		<0.01
7/26/2016	0.0005 (J)		<0.01			
7/27/2016		0.0014 (J)		0.0008 (J)	0.0007 (J)	
7/28/2016						0.0006 (J)
8/31/2016	0.001 (J)	0.0012 (J)	0.0011 (J)			
9/1/2016				0.0015 (J)	0.0011 (J)	0.0011 (J)
10/25/2016				<0.01	<0.01	<0.01
10/26/2016	<0.01	0.0012 (J)	<0.01			
1/4/2017	<0.01	0.0012 (J)				<0.01
1/5/2017			<0.01	0.001 (J)	<0.01	
4/3/2017					0.0015 (J)	
4/4/2017				0.001 (J)		
4/5/2017		0.0013 (J)				0.001 (J)
4/6/2017	0.0007 (J)		0.0011 (J)			
7/10/2017		0.0014 (J)				
7/11/2017	0.0006 (J)			0.0008 (J)	0.0013 (J)	
7/12/2017			0.0007 (J)			0.0011 (J)
10/2/2017				0.0009 (J)	0.0013 (J)	
10/3/2017	0.0007 (J)					0.0009 (J)
10/4/2017		0.0011 (J)	0.0008 (J)			
1/9/2018				0.0006 (J)	0.0012 (J)	
1/10/2018			0.0007 (J)			0.0007 (J)
1/11/2018	0.0098 (J)	0.001 (J)				
7/9/2018				<0.01		
7/10/2018					<0.01	<0.01
7/11/2018	<0.01	<0.01	0.0019 (J)			
1/16/2019			<0.01	<0.01		
1/17/2019	<0.01	0.0028 (J)			<0.01	0.01 (J)
3/26/2019			<0.01	<0.01	<0.01	<0.01
3/27/2019	<0.01	<0.01				
8/27/2019	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)	
8/28/2019						0.0011 (J)
10/8/2019	0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)
10/9/2019		0.00081 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00094 (J)	0.00082 (J)		0.00074 (J)	0.0014 (J)	<0.01
4/8/2020			0.00058 (J)			
8/17/2020		0.001 (J)	0.00077 (J)			
8/18/2020	0.0015 (J)			0.00059 (J)	0.0018 (J)	0.0012 (J)
9/28/2020			0.00062 (J)			
9/29/2020	0.0011 (J)	0.00085 (J)		<0.01		
9/30/2020					0.0016 (J)	0.00098 (J)
3/10/2021	0.0013 (J)	0.00091 (J)				
3/12/2021					0.0031 (J)	
3/15/2021			<0.01			
3/16/2021				<0.01		0.0012 (J)
9/21/2021	<0.01	<0.01	<0.01			
9/22/2021				<0.01		0.0018 (J)
9/23/2021					0.0013 (J)	
2/1/2022						<0.01
2/2/2022				<0.01		
2/3/2022	0.0011 (J)	0.0018 (J)	<0.01		0.0016 (J)	
8/30/2022		<0.01		<0.01		
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022						<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.01
11/21/2000	<0.01	<0.01				<0.01
1/20/2001	<0.01	<0.01				<0.01
3/14/2001	<0.01	<0.01				<0.01
7/16/2001	<0.01	<0.01				<0.01
11/1/2001	<0.01	<0.01				<0.01
4/25/2002	<0.01	<0.01				<0.01
11/20/2002	<0.01	<0.01				0.014
6/6/2003	<0.01	<0.01				<0.01
12/12/2003	0.036 (O)	<0.01				<0.01
5/26/2004	<0.01	<0.01				<0.01
12/7/2004	0.0021	<0.01				0.0039
6/21/2005	<0.01	<0.01				0.002
12/12/2005	<0.01	<0.01				<0.01
6/27/2006	<0.01	<0.01				<0.01
12/4/2006	<0.01	<0.01				0.0019
6/23/2007	<0.01	<0.01				0.0015
12/11/2007	<0.01	<0.01				<0.01
6/23/2008						0.0015
6/24/2008	<0.01	<0.01				
12/4/2008		<0.01				<0.01
12/5/2008	<0.01					
7/8/2009	<0.01	<0.01				<0.01
12/20/2009		<0.01				
12/21/2009	<0.01					<0.01
6/20/2010		<0.01				0.0015
6/21/2010	<0.01		<0.01	0.0019	<0.01	
1/6/2011		<0.01				
1/7/2011	<0.01		0.0018	0.0017	<0.01	<0.01
7/7/2011			<0.01			
7/8/2011	0.0013		0.0019	0.0023	<0.01	<0.01
1/17/2012		<0.01				
1/18/2012	<0.01		<0.01	<0.01	<0.01	<0.01
7/9/2012		<0.01				
7/10/2012	<0.01		0.0013	<0.01	<0.01	<0.01
1/17/2013		<0.01				
1/18/2013	<0.01		0.0015	<0.01	<0.01	<0.01
7/17/2013	<0.01	<0.01	<0.01	0.0019	<0.01	<0.01
1/13/2014		<0.01				
1/14/2014	<0.01		0	<0.01	<0.01	<0.01
7/9/2014	<0.01	<0.01		<0.01		0.0011 (J)
7/10/2014			<0.01		<0.01	
1/12/2015			<0.01			
1/13/2015		<0.01				
1/14/2015	<0.01			<0.01	<0.01	<0.01
7/16/2015		<0.01				
7/17/2015				<0.01		0.0013
7/18/2015	<0.01		<0.01		<0.01	
1/17/2016		<0.01	<0.01	<0.01		
1/18/2016	<0.01				<0.01	<0.01
7/27/2016		0.0008 (J)				
7/28/2016			0.0007 (J)	0.0005 (J)		0.0011 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.0007 (J)	
8/31/2016		<0.01			<0.01	0.0024 (J)
9/1/2016	0.0011 (J)		<0.01	<0.01		
10/25/2016			<0.01	<0.01		
10/26/2016	<0.01	0.001 (J)			<0.01	
10/27/2016						<0.01
1/4/2017			<0.01	<0.01	<0.01	
1/5/2017	0.0012 (J)	<0.01				
1/6/2017						<0.01
4/4/2017		0.0008 (J)	0.0011 (J)	0.0008 (J)		
4/5/2017	0.0015 (J)					
4/6/2017					0.0006 (J)	0.0019 (J)
7/11/2017			0.0009 (J)		0.0005 (J)	
7/12/2017						0.0011 (J)
7/13/2017	0.0012 (J)	0.0006 (J)		0.0006 (J)		
10/2/2017			0.0009 (J)			
10/3/2017		<0.01		0.0005 (J)		
10/4/2017	0.0055 (J)				0.0006 (J)	0.0011 (J)
1/9/2018				0.0007 (J)		
1/10/2018		<0.01	0.0008 (J)			
1/11/2018	0.0009 (J)				<0.01	0.001 (J)
7/9/2018			<0.01			
7/10/2018		<0.01		<0.01		
7/11/2018	<0.01				<0.01	<0.01
1/16/2019	<0.01					
1/17/2019				0.01		
1/18/2019					<0.01	<0.01
1/21/2019		<0.01	<0.01			
3/25/2019			<0.01			
3/26/2019	<0.01			<0.01		
3/27/2019					<0.01	<0.01
7/30/2019		0.00065 (J)				
8/27/2019		<0.01			0.00057 (J)	
8/28/2019	0.0013 (J)		0.00089 (J)	0.00087 (J)		0.00089 (J)
10/8/2019				0.00065 (J)		
10/9/2019	0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)	0.0009 (J)
4/7/2020				<0.01	0.00049 (J)	
4/8/2020	0.00073 (J)	0.00069 (J)	0.001 (J)			0.0015 (J)
8/18/2020	0.0011 (J)	<0.01	0.0011 (J)	0.0012 (J)	0.00056 (J)	
8/19/2020						0.0013 (J)
9/29/2020		<0.01				
9/30/2020	0.00096 (J)		0.0013 (J)	0.00067 (J)	0.00064 (J)	
10/1/2020						0.0012 (J)
3/10/2021					<0.01	0.0011 (J)
3/11/2021	0.0009 (J)					
3/12/2021			0.0014 (J)			
3/15/2021		0.0011 (J)				
3/16/2021				0.00075 (J)		
9/21/2021					<0.01	
9/22/2021	<0.01	<0.01	0.0013 (J)	<0.01		<0.01
2/1/2022	0.0014 (J)		0.0036 (J)	<0.01		
2/2/2022		<0.01				0.0012 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.01	
8/30/2022			<0.01	<0.01		
8/31/2022	<0.01				<0.01	
9/1/2022		<0.01				<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.01	0.00069 (J)	0.0016 (J)
9/22/2021	<0.01	<0.01	
9/23/2021			<0.01
2/1/2022		<0.01	
2/3/2022	<0.01		<0.01
8/31/2022	<0.01		<0.01
9/1/2022		<0.01	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.001		<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	0.012	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016		<0.001		<0.001	<0.001	<0.001
9/1/2016	0.0102		0.0024 (J)			
10/24/2016		<0.001				
10/25/2016	0.0037 (J)					<0.001
10/26/2016			0.0011 (J)	<0.001	<0.001	
1/3/2017		<0.001		<0.001		
1/4/2017						<0.001
1/5/2017					<0.001	
1/6/2017	0.0039 (J)		0.001 (J)			
4/3/2017		0.0005 (J)				
4/4/2017			0.001 (J)			<0.001
4/6/2017	0.006 (J)			<0.001	<0.001	
7/11/2017		0.0005 (J)				
7/12/2017			0.0008 (J)	<0.001	<0.001	<0.001
7/13/2017	0.0037 (J)					
10/2/2017		0.0004 (J)				
10/3/2017				<0.001	<0.001	<0.001
10/4/2017	0.0058 (J)		0.001 (J)			
1/9/2018	0.0053 (J)	0.0004 (J)			<0.001	
1/10/2018				0.0004 (J)		<0.001
1/11/2018			0.0008 (J)			
7/9/2018		<0.001				
7/10/2018				0.002 (J)	<0.001	<0.001
7/11/2018	<0.05 (O)		<0.001			
8/26/2019	0.0037 (J)	0.00042 (J)				
8/27/2019			0.0011 (J)		0.00038 (J)	<0.001
8/28/2019				0.0024 (J)		
10/7/2019		0.00046 (J)				
10/8/2019	0.0028 (J)					
10/9/2019			0.0015 (J)	0.0037 (J)	<0.001	<0.001
4/6/2020	0.0021 (J)	0.00036 (J)				
4/7/2020			0.0009 (J)	0.00053 (J)	<0.001	<0.001
8/17/2020		<0.001				
8/19/2020	0.0021 (J)		0.00072 (J)	<0.001	<0.001	<0.001
9/28/2020	<0.001	<0.001				<0.001
9/30/2020				0.00056 (J)	<0.001	
10/1/2020			0.0005 (J)			
3/10/2021			0.00069 (J)	0.0057	<0.001	<0.001
3/11/2021	0.0023 (J)					
3/12/2021		0.00058 (J)				
9/21/2021	<0.001	<0.001	<0.001	0.019	0.0049 (J)	
9/23/2021						<0.001
1/31/2022	<0.025 (o)	0.00044 (J)				
2/2/2022			0.0027 (J)		0.07	
2/3/2022				0.019		<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.00134	0.00042 (J)	0.00198	0.00401	0.0476	
9/1/2022						<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2016	<0.001	0.0018 (J)	<0.001			
9/1/2016				<0.001	<0.001	<0.001
10/25/2016				<0.001	<0.001	<0.001
10/26/2016	<0.001	0.0016 (J)	<0.001			
1/4/2017	<0.001	0.0014 (J)				<0.001
1/5/2017			<0.001	<0.001	<0.001	
4/3/2017					<0.001	
4/4/2017				<0.001		
4/5/2017		0.0013 (J)				<0.001
4/6/2017	<0.001		<0.001			
7/10/2017		0.0013 (J)				
7/11/2017	<0.001			0.0003 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	<0.001					<0.001
10/4/2017		0.0011 (J)	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0003 (J)	0.0011 (J)				
7/9/2018				<0.001		
7/10/2018					<0.001	<0.001
7/11/2018	<0.001	0.00096 (J)	<0.001			
8/27/2019	<0.001	0.0009 (J)	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	<0.001		<0.001	<0.001	<0.001	<0.001
10/9/2019		0.00094 (J)				
4/7/2020	<0.001	0.00077 (J)		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		0.0006 (J)	<0.001			
8/18/2020	0.0004 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00055 (J)	0.00057 (J)		<0.001		
9/30/2020					<0.001	<0.001
3/10/2021	0.00082 (J)	0.00071 (J)				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	<0.001	0.00065 (J)	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	<0.001	0.00072 (J)	<0.001		<0.001	
8/30/2022		0.000786 (J)		<0.001		
8/31/2022	0.000646 (J)		<0.001		<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.001					<0.001
11/21/2000	<0.001	<0.001				<0.001
1/20/2001	<0.001	<0.001				<0.001
3/14/2001	<0.001	<0.001				<0.001
7/16/2001	<0.001	<0.001				<0.001
11/1/2001	<0.001	<0.001				<0.001
4/25/2002	<0.001	<0.001				<0.001
8/31/2016		<0.001			0.001 (J)	0.0021 (J)
9/1/2016	0.0046 (J)		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	0.0046 (J)	0.0011 (J)			0.0009 (J)	
10/27/2016						0.0017 (J)
1/4/2017			<0.001	<0.001	0.0007 (J)	
1/5/2017	0.0062 (J)	<0.001				
1/6/2017						0.0017 (J)
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	0.007 (J)					
4/6/2017					<0.001	0.0017 (J)
7/11/2017			<0.001		<0.001	
7/12/2017						0.0016 (J)
7/13/2017	0.0077 (J)	0.0003 (J)		<0.001		
10/2/2017			<0.001			
10/3/2017		0.0003 (J)		<0.001		
10/4/2017	0.0073 (J)				0.0007 (J)	0.0015 (J)
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	0.0061 (J)				<0.001	0.0017 (J)
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	0.0064 (J)				<0.001	0.0017 (J)
7/30/2019		0.00032 (J)				
8/27/2019		<0.001			0.00077 (J)	
8/28/2019	0.0023 (J)		<0.001	<0.001		0.00099 (J)
10/8/2019				<0.001		
10/9/2019	0.0024 (J)	<0.001	<0.001		<0.001	0.00099 (J)
4/7/2020				<0.001	0.00037 (J)	
4/8/2020	0.0024 (J)	0.00036 (J)	<0.001			0.001 (J)
8/18/2020	0.0025 (J)	<0.001	<0.001	<0.001	<0.001	
8/19/2020						0.0011 (J)
9/29/2020		<0.001				
9/30/2020	0.0018 (J)		<0.001	<0.001	<0.001	
10/1/2020						0.00099 (J)
3/10/2021					<0.001	0.00096 (J)
3/11/2021	0.0019 (J)					
3/12/2021			<0.001			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	0.0028 (J)	<0.001	<0.001	<0.001		0.00082 (J)
2/1/2022	0.0036 (J)		<0.001	<0.001		
2/2/2022		<0.001				0.00096 (J)
2/3/2022					<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.001	<0.001		
8/31/2022	0.00358				<0.001	
9/1/2022		<0.001				0.00093 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.001	<0.001	<0.001
9/22/2021	<0.001	<0.001	
9/23/2021			<0.001
2/1/2022		<0.001	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		<0.001
9/1/2022		<0.001	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		2.72		1.81	2.19	2.36
9/1/2016	11		5.27			
10/24/2016		2.96				
10/25/2016	10.5					2.02
10/26/2016			2.32	2.03	2.67	
1/3/2017		2.76		1.85		
1/4/2017						2.1
1/5/2017					3.74	
1/6/2017	6.81		5.1			
4/3/2017		1.36				
4/4/2017			5			1.39 (U)
4/6/2017	8.93			2.66	2.36	
7/11/2017		1.85				
7/12/2017			2.69	2.1	1.54	1.63
7/13/2017	8.51					
10/2/2017		1.9				
10/3/2017				2	3.63	1.84
10/4/2017	3.85		4.82			
1/9/2018	4.28	2.39			2.07	
1/10/2018				2.55		2.11
1/11/2018			4.48			
7/9/2018		1.49				
7/10/2018				3.14	1.63	1.29
7/11/2018	5.99		2.69			
8/26/2019	6.03	3.03				
8/27/2019			2.97		4.63	2.41
8/28/2019				3.74		
10/7/2019		2.83				
10/8/2019	33.8 (o)					
10/9/2019			2.17	7.23	5.45	3.13
4/6/2020	25.7 (o)	2.83				
4/7/2020			2.44	3.57	6.25	1.97
8/17/2020		2.63				
8/19/2020	5.45		3.1	2.49	4.53	1.91
9/28/2020	22.4 (o)	2.08				1.29
9/30/2020				4.45	6.39	
10/1/2020			2.6			
3/10/2021			2.11	4.67	4.61	1.7
3/11/2021	3.22					
3/12/2021		2.17				
9/21/2021	10.3	0.73 (U)	2.45	3.1	5.07	
9/23/2021						1.48
1/31/2022	8.46 (U)	1.01				
2/2/2022			3.17		4.79	
2/3/2022				2.65		1
8/30/2022	2.75	1.97	5.57	3.36	3.2	
9/1/2022						0.911 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	2.2	2.61	1.23			
9/1/2016				1.28	2.45	1.99
10/25/2016				1.54	1.04 (U)	1.98
10/26/2016	1.96	3.28	0.641 (U)			
1/4/2017	1.88	3.77				1.72
1/5/2017			0.657 (U)	0.715 (U)	1.36	
4/3/2017					0.697 (U)	
4/4/2017				0.699 (U)		
4/5/2017		3.25				1.72
4/6/2017			0.439 (U)			
4/8/2017	0.893 (U)					
7/10/2017		1.55				
7/11/2017	1.89			1.12	0.754 (U)	
7/12/2017			0.414 (U)			1.11
10/2/2017				0.855 (U)	1.52	
10/3/2017	4.73					2.13
10/4/2017		1.68	1.33			
1/9/2018				0.861 (U)	1.17	
1/10/2018			1.21			1.74
1/11/2018	7.49	2.94				
7/9/2018				0.693 (U)		
7/10/2018					1.26	1.97
7/11/2018	5.88	2.03	1.4 (U)			
8/27/2019	5.09	2.09	1.27	1.32	1.75	
8/28/2019						2.04
10/8/2019	6.39		1.62	1.41	1.52	1.89
10/9/2019		3.11				
4/7/2020	7.87	2.18		1.41	1.82	4.17
4/8/2020			1.08 (U)			
8/17/2020		2.25	1.42			
8/18/2020	6.76			0.731 (U)	1.84	4.24
9/28/2020			1.28			
9/29/2020	8.3	0.845 (U)		0.331 (U)		
9/30/2020					2.14	2.47
3/10/2021	7.55	1.77				
3/12/2021					0.607 (U)	
3/15/2021			0.769 (U)			
3/16/2021				0.0831 (U)		2.15
9/21/2021	4.35	1.24 (U)	2.09			
9/22/2021				1.94 (U)		3.06
9/23/2021					1.64	
2/1/2022						2.73
2/2/2022				0.881 (U)		
2/3/2022	4.04	0.957	1.18		0.58 (U)	
8/30/2022		3.37		2.62		
8/31/2022	6.34		1.9		2.88	
9/1/2022						1.64 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		1.01			5.96	3.3
9/1/2016	5.19		2.21	1.05		
10/25/2016			1.51 (U)	1.2		
10/26/2016	4.25	0.725 (U)			7.42	
10/27/2016						2.7
1/4/2017			2.56	2.11	6.07	
1/5/2017	3.55	0.735 (U)				
1/6/2017						4.45
4/4/2017		0.87 (U)	1.77	2.02		
4/5/2017	4.39					
4/6/2017					3	3.1
7/11/2017			2.76		4.2	
7/12/2017						2.73
7/13/2017	2.44	0.42 (U)		0.576 (U)		
10/2/2017			4.15			
10/3/2017		0.995 (U)		0.86		
10/4/2017	4.95				7.16	8.16
1/9/2018				1.43		
1/10/2018		0.698 (U)	1.96			
1/11/2018	3.53				3.57	2.31
7/9/2018			1.11			
7/10/2018		1.01		1.63		
7/11/2018	3.13				7.57	3.31
8/27/2019		0.787 (U)			7.04	
8/28/2019	2.01		1.13 (U)	1.4 (U)		1.91
10/8/2019				1.88		
10/9/2019	2.91	0.22 (U)	2.28		3.68	3.09
4/7/2020				1.8	7.66	
4/8/2020	2.79	1.13 (U)	4.19			1.92
8/18/2020	3.11	1.09 (U)	6.86	3.27	7.65	
8/19/2020						2.34
9/29/2020		1 (U)				
9/30/2020	3.09		5.62	3.83	2.79	
10/1/2020						3.3
3/10/2021					2.53	2.08
3/11/2021	2.77					
3/12/2021			5.17			
3/15/2021		0.804 (U)				
3/16/2021				2.88		
9/21/2021					1.25 (U)	
9/22/2021	2.36	0.769 (U)	6.84	0.959 (U)		2.08
2/1/2022	2.51		5.11	2.51		
2/2/2022		0.854 (U)				0.967 (U)
2/3/2022					1.4	
8/30/2022			4.95	2.56		
8/31/2022	2.72				3.07	
9/1/2022		2.09				2.35

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	1.55	1.29	0.353 (U)
9/22/2021	1.4	0.982 (U)	
9/23/2021			1.15
2/1/2022		0.36 (U)	
2/3/2022	1.21		0.278 (U)
8/31/2022	1.79		0.645 (U)
9/1/2022		3.54	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.1 (J)		0.04 (J)	0.09 (J)	0.22 (J)
9/1/2016	<0.1		<0.1			
10/24/2016		0.18 (J)				
10/25/2016	0.07 (J)					<0.1
10/26/2016			0.05 (J)	0.05 (J)	0.24 (J)	
1/3/2017		0.18 (J)		0.08 (J)		
1/4/2017						0.18 (J)
1/5/2017					0.11 (J)	
1/6/2017	0.2 (J)		0.08 (J)			
4/3/2017		0.12 (J)				
4/4/2017			<0.1			<0.1
4/6/2017	0.05 (J)			0.006 (J)	0.3	
7/11/2017		0.39				
7/12/2017			0.38	0.05 (J)	0.15 (J)	0.04 (J)
7/13/2017	0.41					
10/2/2017		0.12 (J)				
10/3/2017				0.11 (J)	0.11 (J)	<0.1
10/4/2017	0.04 (J)		<0.1			
1/9/2018	0.46	0.21 (J)			<0.1	
1/10/2018				<0.1		<0.1
1/11/2018			<0.1			
7/9/2018		0.04 (J)				
7/10/2018				0.2 (J)	<0.1	<0.1
7/11/2018	<0.1		<0.1			
1/16/2019	0.49	<0.1	1.2	<0.1	0.053 (J)	<0.1
3/25/2019	0.21 (J)	0.082 (J)	0.064 (J)			
3/26/2019				<0.1	0.046 (J)	0.051 (J)
8/26/2019	<0.1	0.13				
8/27/2019			0.031 (J)		0.13 (J)	<0.1
8/28/2019				0.097 (J)		
10/7/2019		<0.1				
10/8/2019	<0.1					
10/9/2019			<0.1	<0.1	<0.1	<0.1
4/6/2020	0.13 (J)	0.089 (J)				
4/7/2020			<0.1	<0.1	<0.1	<0.1
8/17/2020		0.079 (J)				
8/19/2020	0.21		0.17	<0.1	<0.1	<0.1
9/28/2020	0.069 (J)	<0.1				<0.1
9/30/2020				<0.1	<0.1	
10/1/2020			<0.1			
3/10/2021			<0.1	<0.1	<0.1	<0.1
3/11/2021	<0.1					
3/12/2021		0.087 (J)				
9/21/2021	0.077 (J)	0.068 (J)	<0.1	<0.1	<0.1	
9/23/2021						<0.1
1/31/2022	<0.1	0.09 (J)				
2/2/2022			<0.1		<0.1	
2/3/2022				0.081 (J)		<0.1
8/30/2022	0.0391 (J)	0.0759 (J)	<0.1	0.0428 (J)	<0.1	
9/1/2022						<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.1	0.7	<0.1			
9/1/2016				0.25 (J)	<0.1	0.55
10/25/2016				0.43	0.5	0.36
10/26/2016	<0.1	0.91	0.55			
1/4/2017	<0.1	0.51				0.1 (J)
1/5/2017			0.09 (J)	0.21 (J)	0.22 (J)	
4/3/2017					<0.1	
4/4/2017				0.45		
4/5/2017		0.71				0.2 (J)
4/6/2017	<0.1		<0.1			
7/10/2017		0.88				
7/11/2017	<0.1			0.41	0.06 (J)	
7/12/2017			<0.1			0.04 (J)
10/2/2017				<0.1	<0.1	
10/3/2017	<0.1					0.86
10/4/2017		0.37	<0.1			
1/9/2018				<0.1	<0.1	
1/10/2018			<0.1			<0.1
1/11/2018	<0.1	1.4				
7/9/2018				<0.1		
7/10/2018					0.15 (J)	<0.1
7/11/2018	<0.1	0.62	<0.1			
1/16/2019			<0.1	<0.1		
1/17/2019	<0.1	1.2			<0.1	<0.1
3/26/2019			0.052 (J)	0.13 (J)	0.13 (J)	0.11 (J)
3/27/2019	<0.1	0.036 (J)				
8/27/2019	<0.1	0.3	<0.1	<0.1	<0.1	
8/28/2019						<0.1
10/8/2019	<0.1		<0.1	<0.1	<0.1	<0.1
10/9/2019		<0.1				
4/7/2020	<0.1	0.27 (J)		<0.1	<0.1	<0.1
4/8/2020			<0.1			
8/17/2020		0.19	<0.1			
8/18/2020	<0.1			<0.1	<0.1	<0.1
9/28/2020			<0.1			
9/29/2020	<0.1	0.16		<0.1		
9/30/2020					<0.1	<0.1
3/10/2021	<0.1	0.14				
3/12/2021					<0.1	
3/15/2021			<0.1			
3/16/2021				<0.1		<0.1
9/21/2021	<0.1	0.31	<0.1			
9/22/2021				<0.1		<0.1
9/23/2021					<0.1	
2/1/2022						<0.1
2/2/2022				<0.1		
2/3/2022	<0.1	0.36	<0.1		<0.1	
8/30/2022		0.273		<0.1		
8/31/2022	<0.1		0.051 (J)		<0.1	
9/1/2022						0.0374 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.07 (J)			0.04 (J)	0.55
9/1/2016	0.68		<0.1	<0.1		
10/25/2016			<0.1	<0.1		
10/26/2016	0.68	0.62			0.12 (J)	
10/27/2016						0.26 (J)
1/4/2017			0.04 (J)	<0.1	0.06 (J)	
1/5/2017	0.73	0.17 (J)				
1/6/2017						0.25 (J)
4/4/2017		0.08 (J)	0.02 (J)	<0.1		
4/5/2017	1.6					
4/6/2017					<0.1	0.16 (J)
7/11/2017			0.14 (J)		0.03 (J)	
7/12/2017						0.2 (J)
7/13/2017	1.7	0.06 (J)		<0.1		
10/2/2017			<0.1			
10/3/2017		0.06 (J)		<0.1		
10/4/2017	1.8				0.12 (J)	0.22 (J)
1/9/2018				<0.1		
1/10/2018		<0.1	<0.1			
1/11/2018	1.5				<0.1	0.98
7/9/2018			<0.1			
7/10/2018		<0.1		<0.1		
7/11/2018	1.8				<0.1	0.14 (J)
1/16/2019	1.4					
1/17/2019				<0.1		
1/18/2019					<0.1	0.24 (J)
1/21/2019		<0.1	<0.1			
3/25/2019			0.043 (J)			
3/26/2019	0.89			0.071 (J)		
3/27/2019					<0.1	0.13 (J)
7/30/2019		0.083 (J)				
8/27/2019		<0.1			0.1	
8/28/2019	0.61		<0.1	<0.1		0.088 (J)
10/8/2019				<0.1		
10/9/2019	<0.1	<0.1	<0.1		<0.1	0.068 (J)
4/7/2020				<0.1	<0.1	
4/8/2020	0.55	<0.1	<0.1			0.058 (J)
8/18/2020	0.51	<0.1	<0.1	<0.1	<0.1	
8/19/2020						0.092 (J)
9/29/2020		<0.1				
9/30/2020	0.15		<0.1	<0.1	<0.1	
10/1/2020						<0.1
3/10/2021					<0.1	0.066 (J)
3/11/2021	0.42					
3/12/2021			<0.1			
3/15/2021		<0.1				
3/16/2021				<0.1		
9/21/2021					<0.1	
9/22/2021	0.79	<0.1	<0.1	<0.1		0.13
2/1/2022	0.68		<0.1	<0.1		
2/2/2022		<0.1				<0.1
2/3/2022					<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.1	<0.1		
8/31/2022	0.442				<0.1	
9/1/2022		<0.1				0.0783 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.11
1/21/2021	<0.1	<0.1	
3/11/2021	<0.1	<0.1	0.12
9/22/2021	<0.1	<0.1	
9/23/2021			0.096 (J)
2/1/2022		<0.1	
2/3/2022	<0.1		0.077 (J)
8/31/2022	0.0791 (J)		0.187
9/1/2022		<0.1	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.002	<0.002	0.0083	0.017 (O)	<0.002	<0.002
11/21/2000	<0.002		0.0052	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	0.011	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	0.026 (O)	<0.002	<0.002
7/16/2001	<0.002	<0.002	0.011	0.043 (O)	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	0.075 (O)	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002		<0.002	0.018 (O)	0.057 (O)	0.0057 (J)	<0.002
6/6/2003	0.037 (O)	0.016 (O)	0.015 (O)	0.16 (O)	0.013	<0.002
12/12/2003	0.008	0.0095	0.0072	<0.002	<0.002	<0.002
5/26/2004	<0.002	<0.002	0.0055	0.011	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	0.038 (O)	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	0.036 (O)	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.002	<0.002	0.024 (O)	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.002	<0.002	0.023 (O)	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007		<0.002				
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008		<0.002				
6/23/2008	<0.002	<0.002				
6/24/2008			0.02 (O)	<0.002	0.02	<0.002
11/3/2008		<0.002				
12/4/2008	<0.002	<0.002				
12/5/2008			<0.002	<0.002	<0.002	<0.002
3/25/2009		<0.002				
7/7/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009		<0.002				
12/20/2009	<0.002	<0.002				<0.002
12/21/2009			<0.002	<0.002	<0.002	
3/4/2010		<0.002				
6/20/2010	<0.002	<0.002		<0.002	<0.002	<0.002
6/21/2010			<0.002			
9/14/2010		<0.002				
1/6/2011				<0.002		<0.002
1/7/2011	<0.002	<0.002	<0.002		<0.002	
4/15/2011		<0.002				
7/7/2011	<0.002	<0.002		<0.002	<0.002	<0.002
7/8/2011			<0.002			
9/25/2011		<0.002				
1/17/2012	<0.002	<0.002		<0.002		<0.002
1/18/2012			<0.002		<0.002	
4/4/2012		<0.002				
7/9/2012	<0.002			<0.002		<0.002
7/10/2012		<0.002	<0.002		<0.002	
10/9/2012		<0.002				
1/17/2013				<0.002		<0.002
1/18/2013	<0.002	<0.002	<0.002		<0.002	
4/5/2013		<0.002				

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.002		<0.002
7/17/2013	<0.002	<0.002	<0.002		<0.002	
10/11/2013		<0.002				
1/13/2014	0.013			<0.002		<0.002
1/14/2014		<0.002	0.005		<0.002	
4/3/2014		<0.002				
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/24/2014		<0.002				
1/12/2015			<0.002			
1/13/2015	0.0057 (J)			<0.002		<0.002
1/14/2015		<0.002			<0.002	
5/10/2015		<0.002				
7/16/2015	0.009 (J)		<0.002	<0.002		<0.002
7/17/2015		<0.002			<0.002	
10/6/2015		<0.002				
1/17/2016						<0.002
1/18/2016	0.0094 (J)	<0.002	0.0055 (J)	<0.002	<0.002	
4/26/2016		<0.002				
7/27/2016	0.0058			<0.002		<0.002
7/28/2016		<0.002			<0.002	
7/29/2016			0.003 (J)			
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0663 (O)		0.0166 (O)			
10/24/2016		<0.002				
10/25/2016	0.0003 (J)					<0.002
10/26/2016			0.0057	0.0002 (J)	<0.002	
1/3/2017		0.0001 (J)		0.0001 (J)		
1/4/2017						<0.002
1/5/2017					0.0003 (J)	
1/6/2017	0.006		0.0053			
4/3/2017		0.0002 (J)				
4/4/2017			0.0092			<0.002
4/6/2017	0.0109			0.0003 (J)	0.0002 (J)	
7/11/2017		0.0001 (J)				
7/12/2017			0.006	0.0002 (J)	0.0002 (J)	<0.002
7/13/2017	0.007					
10/2/2017		0.0001 (J)				
10/3/2017				0.0002 (J)	0.0001 (J)	<0.002
10/4/2017	0.0042 (J)		0.0057			
1/9/2018	0.0098	0.0001 (J)			0.0003 (J)	
1/10/2018				0.0003 (J)		0.0001 (J)
1/11/2018			0.0085			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	0.0028 (J)		0.0029 (J)			
1/16/2019	<0.025 (O)	<0.002	<0.002	<0.002	<0.002	<0.002
3/25/2019	0.0019 (J)	<0.002	<0.002			
3/26/2019				<0.002	<0.002	<0.002
8/26/2019	0.013 (J)	<0.002				
8/27/2019			0.001 (J)		0.0011 (J)	<0.002
8/28/2019				0.0011 (J)		
10/7/2019		<0.002				

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0098 (J)					
10/9/2019			0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002
4/6/2020	0.0024 (J)	0.0001 (J)				
4/7/2020			0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)
8/17/2020		<0.002				
8/19/2020	0.0044 (J)		0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002
9/28/2020	0.0043 (J)	<0.002				4.3E-05 (J)
9/30/2020				0.0012 (J)	8E-05 (J)	
10/1/2020			0.00026 (J)			
3/10/2021			0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)
3/11/2021	0.0079					
3/12/2021		9.3E-05 (J)				
9/21/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.002	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	0.0022	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002	<0.002	<0.002	<0.002	0.011 (O)	<0.002	<0.002
6/6/2003	0.0068	<0.002	0.0078	<0.002	<0.002	0.099 (O)
12/12/2003	<0.002	<0.002	0.0055	<0.002	0.0065	0.017 (O)
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007				<0.002		<0.002
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008				<0.002		<0.002
6/23/2008	<0.002	<0.002	<0.002			
6/24/2008				<0.002	<0.002	<0.002
11/3/2008				<0.002		<0.002
12/4/2008	<0.002	<0.002	<0.002	<0.002		
12/5/2008					<0.002	<0.002
3/25/2009				<0.002		<0.002
7/8/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009				<0.002		<0.002
12/20/2009				<0.002	<0.002	<0.002
12/21/2009	<0.002	<0.002	<0.002			
3/4/2010				<0.002		<0.002
6/20/2010	<0.002	<0.002	<0.002	<0.002	<0.002	
6/21/2010						<0.002
9/14/2010				<0.002		<0.002
1/6/2011	<0.002		<0.002			
1/7/2011		<0.002		<0.002	<0.002	<0.002
4/15/2011				<0.002		<0.002
7/7/2011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/25/2011				<0.002		<0.002
1/17/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
1/18/2012						<0.002
4/4/2012				<0.002		<0.002
7/9/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
7/10/2012						<0.002
10/9/2012				<0.002		<0.002
1/17/2013	<0.002	<0.002	<0.002			
1/18/2013				<0.002	<0.002	<0.002
4/5/2013				<0.002		<0.002
7/16/2013	<0.002	<0.002	<0.002			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.002	<0.002	<0.002
10/11/2013				<0.002		<0.002
1/13/2014	<0.002	0.004	<0.002		<0.002	
1/14/2014				<0.002		<0.002
4/3/2014				<0.002		<0.002
7/8/2014	<0.002	<0.002	<0.002			
7/9/2014				<0.002	<0.002	<0.002
10/24/2014				<0.002		<0.002
1/13/2015	<0.002	<0.002	<0.002		<0.002	
1/14/2015				<0.002		<0.002
5/10/2015				<0.002		
5/11/2015						<0.002
7/16/2015	<0.002	0.0044 (J)	<0.002		<0.002	<0.002
7/17/2015				<0.002		
1/17/2016				<0.002	<0.002	<0.002
1/18/2016		0.0034 (J)	<0.002			
1/19/2016	<0.002					
4/26/2016				<0.002		<0.002
7/26/2016	0.0001 (J)		<0.002			
7/27/2016		0.0001 (J)		<0.002	<0.002	
7/28/2016						<0.002
8/31/2016	0.0002 (J)	0.0001 (J)	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	0.0002 (J)
10/26/2016	0.0001 (J)	0.0001 (J)	<0.002			
1/4/2017	0.0002 (J)	<0.002				0.0001 (J)
1/5/2017			0.0002 (J)	<0.002	<0.002	
4/3/2017					0.0003 (J)	
4/4/2017				0.0001 (J)		
4/5/2017		0.0003 (J)				0.0002 (J)
4/6/2017	0.0003 (J)		0.0005 (J)			
7/10/2017		0.0003 (J)				
7/11/2017	0.0002 (J)			8E-05 (J)	0.0001 (J)	
7/12/2017			0.0005 (J)			0.0001 (J)
10/2/2017				0.0001 (J)	0.0002 (J)	
10/3/2017	0.0003 (J)					0.0001 (J)
10/4/2017		0.0001 (J)	0.0007 (J)			
1/9/2018				<0.002	0.0002 (J)	
1/10/2018			0.0009 (J)			0.0002 (J)
1/11/2018	0.0003 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	0.0015 (J)			
1/16/2019			0.00061 (J)	<0.002		
1/17/2019	0.00028 (J)	<0.002			<0.002	<0.002
3/26/2019			<0.002	<0.002	<0.002	<0.002
3/27/2019	0.00029 (J)	<0.002				
8/27/2019	0.00021 (J)	<0.002	0.0001 (J)	0.00051 (J)	0.00033 (J)	
8/28/2019						0.0001 (J)
10/8/2019	0.00028 (J)		0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)
10/9/2019		6.6E-05 (J)				
4/7/2020	0.00036 (J)	8.1E-05 (J)		<0.002	8.6E-05 (J)	0.00023 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.00017 (J)			
8/17/2020		4.9E-05 (J)	7.6E-05 (J)			
8/18/2020	0.00035 (J)			<0.002	9E-05 (J)	0.00017 (J)
9/28/2020			6.4E-05 (J)			
9/29/2020	0.00032 (J)	3.7E-05 (J)		<0.002		
9/30/2020					4.7E-05 (J)	9.1E-05 (J)
3/10/2021	0.00042 (J)	6.8E-05 (J)				
3/12/2021					5.3E-05 (J)	
3/15/2021			0.00013 (J)			
3/16/2021				<0.002		7.3E-05 (J)
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	0.0069				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
11/20/2002	<0.002	<0.002				0.0086 (O)
6/6/2003	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				0.0051
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
12/11/2007	<0.002	<0.002				<0.002
6/23/2008						<0.002
6/24/2008	<0.002	<0.002				
12/4/2008		<0.002				<0.002
12/5/2008	<0.002					
7/8/2009	<0.002	<0.002				<0.002
12/20/2009		<0.002				
12/21/2009	<0.002					<0.002
6/20/2010		<0.002				<0.002
6/21/2010	<0.002		<0.002	<0.002	<0.002	
1/6/2011		<0.002				
1/7/2011	<0.002		<0.002	<0.002	<0.002	<0.002
7/7/2011			<0.002			
7/8/2011	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2012		<0.002				
1/18/2012	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2012		<0.002				
7/10/2012	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2013		<0.002				
1/18/2013	<0.002		<0.002	<0.002	<0.002	<0.002
7/17/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/13/2014		<0.002				
1/14/2014	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2014	<0.002	<0.002		<0.002		<0.002
7/10/2014			<0.002		<0.002	
1/12/2015			<0.002			
1/13/2015		<0.002				
1/14/2015	<0.002			<0.002	<0.002	<0.002
7/16/2015		<0.002				
7/17/2015				<0.002		<0.002
7/18/2015	<0.002		<0.002		<0.002	
1/17/2016		<0.002	<0.002	<0.002		
1/18/2016	<0.002				<0.002	<0.002
7/27/2016		<0.002				
7/28/2016			<0.002	<0.002		<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.002				0.0004 (J)	
8/31/2016		<0.002			0.0003 (J)	0.0007 (J)
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			0.0001 (J)	<0.002		
10/26/2016	<0.002	<0.002			0.0003 (J)	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	0.0003 (J)	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		0.0002 (J)	7E-05 (J)	9E-05 (J)		
4/5/2017	0.0009 (J)					
4/6/2017					0.0003 (J)	0.0001 (J)
7/11/2017			<0.002		0.0002 (J)	
7/12/2017						<0.002
7/13/2017	<0.002	0.0003 (J)		7E-05 (J)		
10/2/2017			<0.002			
10/3/2017		<0.002		0.0001 (J)		
10/4/2017	0.0001 (J)				0.0008 (J)	9E-05 (J)
1/9/2018				9E-05 (J)		
1/10/2018		8E-05 (J)	0.0002 (J)			
1/11/2018	0.0001 (J)				0.0009 (J)	0.0002 (J)
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				0.001 (J)	<0.002
1/16/2019	<0.002					
1/17/2019				<0.002		
1/18/2019					0.0012 (J)	<0.002
1/21/2019		<0.002	<0.002			
3/25/2019			<0.002			
3/26/2019	<0.002			<0.002		
3/27/2019					0.00047 (J)	<0.002
7/30/2019		0.0002 (J)				
8/27/2019		<0.002			0.003 (J)	
8/28/2019	<0.002		6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)
10/8/2019				0.00016 (J)		
10/9/2019	0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)	<0.002
4/7/2020				<0.002	0.00067 (J)	
4/8/2020	8.4E-05 (J)	<0.002	<0.002			0.00021 (J)
8/18/2020	0.00014 (J)	<0.002	<0.002	0.00027 (J)	0.00072 (J)	
8/19/2020						9.6E-05 (J)
9/29/2020		<0.002				
9/30/2020	6E-05 (J)		<0.002	5.4E-05 (J)	0.00023 (J)	
10/1/2020						3.8E-05 (J)
3/10/2021					0.00016 (J)	0.00012 (J)
3/11/2021	0.00019 (J)					
3/12/2021			<0.002			
3/15/2021		4.1E-05 (J)				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	5.7E-05 (J)	9.4E-05 (J)	9.5E-05 (J)
9/22/2021	<0.002	<0.002	
9/23/2021			<0.002
2/1/2022		<0.002	
2/3/2022	<0.002		<0.002
8/31/2022	<0.002		<0.002
9/1/2022		<0.002	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.03		0.0042 (J)	<0.03	<0.03
9/1/2016	<0.03		0.0092 (J)			
10/24/2016		<0.03				
10/25/2016	<0.03					<0.03
10/26/2016			0.0046 (J)	<0.03	<0.03	
1/3/2017		<0.03		0.0024 (J)		
1/4/2017						<0.03
1/5/2017					<0.03	
1/6/2017	<0.03		0.0042 (J)			
4/3/2017		<0.03				
4/4/2017			0.0056 (J)			<0.03
4/6/2017	<0.03			0.0051 (J)	<0.03	
7/11/2017		<0.03				
7/12/2017			0.0035 (J)	0.0031 (J)	<0.03	<0.03
7/13/2017	<0.03					
10/2/2017		<0.03				
10/3/2017				0.0027 (J)	<0.03	<0.03
10/4/2017	<0.03		0.0041 (J)			
1/9/2018	<0.03	<0.03			<0.03	
1/10/2018				0.0041 (J)		<0.03
1/11/2018			0.0052 (J)			
7/9/2018		0.001 (J)				
7/10/2018				0.005 (J)	<0.03	<0.03
7/11/2018	<0.03		0.0039 (J)			
8/26/2019	<0.03	0.0012 (J)				
8/27/2019			0.013 (J)		<0.03	<0.03
8/28/2019				<0.03		
10/7/2019		0.0012 (J)				
10/8/2019	<0.03					
10/9/2019			0.013 (J)	<0.03	<0.03	<0.03
4/6/2020	<0.03	0.00086 (J)				
4/7/2020			0.014 (J)	<0.03	<0.03	<0.03
8/17/2020		0.001 (J)				
8/19/2020	<0.03		0.014 (J)	<0.03	<0.03	<0.03
9/28/2020	<0.03	0.001 (J)				<0.03
9/30/2020				<0.03	<0.03	
10/1/2020			0.013 (J)			
3/10/2021			0.012 (J)	<0.03	<0.03	<0.03
3/11/2021	<0.03					
3/12/2021		0.0013 (J)				
9/21/2021	<0.03	0.00092 (J)	0.016 (J)	<0.03	<0.03	
9/23/2021						<0.03
1/31/2022	<0.03	0.00091 (J)				
2/2/2022			0.015 (J)		<0.03	
2/3/2022				<0.03		<0.03
8/30/2022	<0.03	<0.03	0.0175	<0.03	<0.03	
9/1/2022						<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.03	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
10/25/2016				<0.03	<0.03	<0.03
10/26/2016	<0.03	<0.03	<0.03			
1/4/2017	<0.03	<0.03				<0.03
1/5/2017			<0.03	<0.03	<0.03	
4/3/2017					<0.03	
4/4/2017				<0.03		
4/5/2017		0.0012 (J)				<0.03
4/6/2017	<0.03		<0.03			
7/10/2017		<0.03				
7/11/2017	<0.03			<0.03	<0.03	
7/12/2017			<0.03			<0.03
10/2/2017				<0.03	<0.03	
10/3/2017	<0.03					<0.03
10/4/2017		<0.03	<0.03			
1/9/2018				<0.03	<0.03	
1/10/2018			<0.03			<0.03
1/11/2018	<0.03	<0.03				
7/9/2018				<0.03		
7/10/2018					<0.03	<0.03
7/11/2018	<0.03	0.00098 (J)	<0.03			
8/27/2019	<0.03	0.00094 (J)	<0.03	<0.03	<0.03	
8/28/2019						<0.03
10/8/2019	<0.03		<0.03	<0.03	<0.03	<0.03
10/9/2019		0.0011 (J)				
4/7/2020	<0.03	0.00094 (J)		<0.03	<0.03	<0.03
4/8/2020			<0.03			
8/17/2020		0.00091 (J)	<0.03			
8/18/2020	<0.03			<0.03	<0.03	<0.03
9/28/2020			<0.03			
9/29/2020	<0.03	0.00086 (J)		<0.03		
9/30/2020					<0.03	<0.03
3/10/2021	<0.03	0.00095 (J)				
3/12/2021					<0.03	
3/15/2021			<0.03			
3/16/2021				<0.03		<0.03
9/21/2021	<0.03	0.00091 (J)	0.00087 (J)			
9/22/2021				<0.03		<0.03
9/23/2021					<0.03	
2/1/2022						<0.03
2/2/2022				<0.03		
2/3/2022	<0.03	0.001 (J)	0.00077 (J)		<0.03	
8/30/2022		<0.03		<0.03		
8/31/2022	<0.03		<0.03		<0.03	
9/1/2022						<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.03			<0.03	<0.05 (O)
9/1/2016	0.0066 (J)		<0.03	<0.03		
10/25/2016			<0.03	<0.03		
10/26/2016	0.0065 (J)	<0.03			<0.03	
10/27/2016						0.0023 (J)
1/4/2017			<0.03	<0.03	<0.03	
1/5/2017	0.0062 (J)	<0.03				
1/6/2017						0.0021 (J)
4/4/2017		<0.03	<0.03	<0.03		
4/5/2017	0.007 (J)					
4/6/2017					<0.03	0.0021 (J)
7/11/2017			<0.03		<0.03	
7/12/2017						0.0017 (J)
7/13/2017	0.0069 (J)	<0.03		<0.03		
10/2/2017			<0.03			
10/3/2017		<0.03		<0.03		
10/4/2017	0.0082 (J)				<0.03	0.0021 (J)
1/9/2018				<0.03		
1/10/2018		<0.03	<0.03			
1/11/2018	0.0061 (J)				<0.03	0.0022 (J)
7/9/2018			<0.03			
7/10/2018		<0.03		<0.03		
7/11/2018	0.0075 (J)				<0.03	0.0019 (J)
7/30/2019		<0.03				
8/27/2019		<0.03			<0.03	
8/28/2019	0.0041 (J)		<0.03	<0.03		0.0018 (J)
10/8/2019				<0.03		
10/9/2019	0.0046 (J)	<0.03	<0.03		<0.03	0.0018 (J)
4/7/2020				<0.03	<0.03	
4/8/2020	0.0051 (J)	<0.03	<0.03			0.0018 (J)
8/18/2020	0.0065 (J)	<0.03	<0.03	<0.03	<0.03	
8/19/2020						0.0019 (J)
9/29/2020		<0.03				
9/30/2020	0.0041 (J)		<0.03	<0.03	<0.03	
10/1/2020						0.0019 (J)
3/10/2021					<0.03	0.0018 (J)
3/11/2021	0.0036 (J)					
3/12/2021			<0.03			
3/15/2021		<0.03				
3/16/2021				<0.03		
9/21/2021					<0.03	
9/22/2021	0.005 (J)	<0.03	<0.03	<0.03		0.0015 (J)
2/1/2022	0.0061 (J)		<0.03	<0.03		
2/2/2022		<0.03				0.0017 (J)
2/3/2022					<0.03	
8/30/2022			<0.03	<0.03		
8/31/2022	0.00688 (J)				<0.03	
9/1/2022		<0.03				<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.03	<0.03	<0.03
9/22/2021	<0.03	<0.03	
9/23/2021			<0.03
2/1/2022		<0.03	
2/3/2022	<0.03		<0.03
8/31/2022	<0.03		<0.03
9/1/2022		<0.03	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.0002		<0.0002	<0.0002	4E-05 (J)
9/1/2016	0.00017 (J)		<0.0002			
10/24/2016		<0.0002				
10/25/2016	<0.0002					<0.0002
10/26/2016			<0.0002	<0.0002	<0.0002	
1/3/2017		<0.0002		<0.0002		
1/4/2017						<0.0002
1/5/2017					<0.0002	
1/6/2017	<0.0002		<0.0002			
4/3/2017		<0.0002				
4/4/2017			<0.0002			<0.0002
4/6/2017	4E-05 (J)			<0.0002	<0.0002	
7/11/2017		<0.0002				
7/12/2017			<0.0002	<0.0002	<0.0002	<0.0002
7/13/2017	<0.0002					
10/2/2017		<0.0002				
10/3/2017				<0.0002	<0.0002	<0.0002
10/4/2017	0.0001 (J)		<0.0002			
1/9/2018	<0.0002	<0.0002			<0.0002	
1/10/2018				<0.0002		<0.0002
1/11/2018			<0.0002			
7/9/2018		<0.0002				
7/10/2018				<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002		<0.0002			
1/16/2019	<0.0002	<0.0002	4.9E-05 (J)	<0.0002	4.3E-05 (J)	<0.0002
8/26/2019	<0.0002	<0.0002				
8/27/2019			<0.0002		<0.0002	<0.0002
8/28/2019				<0.0002		
10/9/2019				<0.0002		
8/17/2020		<0.0002				
8/19/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.00011 (J)	0.0001 (J)	0.0001 (J)	0.0001 (J)	
9/23/2021						0.0001 (J)
1/31/2022	<0.0002	<0.0002				
2/2/2022			<0.0002		<0.0002	
2/3/2022				<0.0002		<0.0002
8/30/2022	<0.0002	<0.0002	<0.0002	8.7E-05 (J)	<0.0002	
9/1/2022						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
10/25/2016				<0.0002	<0.0002	<0.0002
10/26/2016	<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002	<0.0002				<0.0002
1/5/2017			<0.0002	<0.0002	<0.0002	
4/3/2017					<0.0002	
4/4/2017				<0.0002		
4/5/2017		<0.0002				<0.0002
4/6/2017	<0.0002		0.00013 (J)			
7/10/2017		<0.0002				
7/11/2017	<0.0002			<0.0002	<0.0002	
7/12/2017			<0.0002			<0.0002
10/2/2017				<0.0002	<0.0002	
10/3/2017	<0.0002					<0.0002
10/4/2017		<0.0002	<0.0002			
1/9/2018				<0.0002	<0.0002	
1/10/2018			<0.0002			<0.0002
1/11/2018	<0.0002	<0.0002				
7/9/2018				<0.0002		
7/10/2018					<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002			
1/16/2019			<0.0002	<0.0002		
1/17/2019	<0.0002	<0.0002			<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/28/2019						<0.0002
8/17/2020		<0.0002	<0.0002			
8/18/2020	<0.0002			<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.0001 (J)	0.0001 (J)			
9/22/2021				0.00011 (J)		0.0001 (J)
9/23/2021					0.0001 (J)	
2/1/2022						<0.0002
2/2/2022				<0.0002		
2/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	
8/30/2022		<0.0002		<0.0002		
8/31/2022	<0.0002		<0.0002		<0.0002	
9/1/2022						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.0002			<0.0002	<0.0002
9/1/2016	<0.0002		<0.0002	<0.0002		
10/25/2016			<0.0002	<0.0002		
10/26/2016	<0.0002	<0.0002			<0.0002	
10/27/2016						<0.0002
1/4/2017			<0.0002	<0.0002	<0.0002	
1/5/2017	<0.0002	<0.0002				
1/6/2017						<0.0002
4/4/2017		<0.0002	<0.0002	<0.0002		
4/5/2017	<0.0002					
4/6/2017					<0.0002	<0.0002
7/11/2017			<0.0002		<0.0002	
7/12/2017						<0.0002
7/13/2017	<0.0002	<0.0002		<0.0002		
10/2/2017			<0.0002			
10/3/2017		<0.0002		<0.0002		
10/4/2017	<0.0002				<0.0002	5E-05 (J)
1/9/2018				<0.0002		
1/10/2018		<0.0002	<0.0002			
1/11/2018	<0.0002				<0.0002	<0.0002
7/9/2018			<0.0002			
7/10/2018		<0.0002		<0.0002		
7/11/2018	<0.0002				<0.0002	<0.0002
1/16/2019	<0.0002					
1/17/2019				<0.0002		
1/18/2019					<0.0002	<0.0002
1/21/2019		<0.0002	<0.0002			
7/30/2019		<0.0002				
8/27/2019		<0.0002			<0.0002	
8/28/2019	<0.0002		<0.0002	<0.0002		<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/19/2020						<0.0002
9/21/2021					0.0001 (J)	
9/22/2021	0.00011 (J)	0.0001 (J)	0.00011 (J)	0.00011 (J)		0.00011 (J)
2/1/2022	<0.0002		<0.0002	<0.0002		
2/2/2022		<0.0002				<0.0002
2/3/2022					<0.0002	
8/30/2022			<0.0002	<0.0002		
8/31/2022	<0.0002				<0.0002	
9/1/2022		<0.0002				<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
9/22/2021	0.00011 (J)	0.0001 (J)	
9/23/2021			0.0001 (J)
2/1/2022		<0.0002	
2/3/2022	<0.0002		<0.0002
8/31/2022	<0.0002		<0.0002
9/1/2022		<0.0002	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.001		<0.001	<0.001	0.175
9/1/2016	0.0098 (J)		0.035			
10/24/2016		<0.001				
10/25/2016	<0.001					0.242
10/26/2016			0.0267	<0.001	<0.001	
1/3/2017		<0.001		<0.001		
1/4/2017						0.167
1/5/2017					<0.001	
1/6/2017	<0.001		0.0278			
4/3/2017		<0.001				
4/4/2017			0.0265			0.172
4/6/2017	<0.001			<0.001	<0.001	
7/11/2017		<0.001				
7/12/2017			0.0209	<0.001	<0.001	0.182
7/13/2017	0.0013 (J)					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.001	0.162
10/4/2017	0.0013 (J)		0.0181			
1/9/2018	<0.001	<0.001			<0.001	
1/10/2018				<0.001		0.117
1/11/2018			0.0237			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.001	0.11
7/11/2018	<0.001		0.024			
8/26/2019	<0.001	<0.001				
8/27/2019			0.1		0.0026 (J)	0.06
8/28/2019				0.0012 (J)		
10/7/2019		<0.001				
10/8/2019	<0.001					
10/9/2019			0.1	<0.001	<0.001	0.06
4/6/2020	<0.001	<0.001				
4/7/2020			0.13	<0.001	<0.001	0.014
8/17/2020		<0.001				
8/19/2020	<0.001		0.16	<0.001	0.001 (J)	0.061
9/28/2020	<0.001	<0.001				0.059
9/30/2020				<0.001	0.00097 (J)	
10/1/2020			0.15			
3/10/2021			0.12	<0.001	0.0013 (J)	0.057
3/11/2021	<0.001					
3/12/2021		<0.001				
9/21/2021	<0.001	<0.001	0.12	<0.001	<0.001	
9/23/2021						0.06
1/31/2022	<0.001	<0.001				
2/2/2022			0.11		0.00085 (J)	
2/3/2022				<0.001		0.038
8/30/2022	0.000453 (J)	<0.001	0.154	<0.001	0.000649 (J)	
9/1/2022						0.0343

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.001	<0.001	<0.001			
9/1/2016				0.0027 (J)	0.132	0.08
10/25/2016				0.0028 (J)	0.117	0.08
10/26/2016	<0.001	<0.001	<0.001			
1/4/2017	<0.001	<0.001				0.0786
1/5/2017			<0.001	0.0022 (J)	0.109	
4/3/2017					0.0994	
4/4/2017				0.0022 (J)		
4/5/2017		<0.001				0.113
4/6/2017	<0.001		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.001			0.0024 (J)	0.0938	
7/12/2017			<0.001			0.178
10/2/2017				0.0025 (J)	0.103	
10/3/2017	<0.001					0.201
10/4/2017		<0.001	<0.001			
1/9/2018				0.0038 (J)	0.106	
1/10/2018			<0.001			0.161
1/11/2018	0.0018 (J)	<0.001				
7/9/2018				0.01		
7/10/2018					0.088	0.14
7/11/2018	<0.001	<0.001	<0.001			
8/27/2019	<0.001	<0.001	<0.001	0.028	0.095	
8/28/2019						0.22
10/8/2019	<0.001		<0.001	0.034	0.091	0.2
10/9/2019		<0.001				
4/7/2020	<0.001	<0.001		0.014	0.07	0.25
4/8/2020			0.0056 (J)			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00077 (J)			0.017	0.12	0.15
9/28/2020			<0.001			
9/29/2020	<0.001	<0.001		0.0089 (J)		
9/30/2020					0.11	0.15
3/10/2021	<0.001	<0.001				
3/12/2021					0.098	
3/15/2021			<0.001			
3/16/2021				0.0054 (J)		0.31
9/21/2021	<0.001	<0.001	<0.001			
9/22/2021				0.018		0.22
9/23/2021					0.094	
2/1/2022						0.18
2/2/2022				0.015		
2/3/2022	<0.001	<0.001	<0.001		0.086	
8/30/2022		0.000205 (J)		0.0133		
8/31/2022	0.000512 (J)		<0.001		0.0786	
9/1/2022						0.154

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 9:47 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.001			<0.001	<0.001
9/1/2016	<0.001		0.296	0.0686		
10/25/2016			0.395	0.0018 (J)		
10/26/2016	<0.001	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			0.229	0.0222	<0.001	
1/5/2017	<0.001	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	0.147	0.0476		
4/5/2017	<0.001					
4/6/2017					<0.001	<0.001
7/11/2017			0.136		<0.001	
7/12/2017						<0.001
7/13/2017	<0.001	<0.001		0.0105		
10/2/2017			0.13			
10/3/2017		<0.001		0.0031 (J)		
10/4/2017	<0.001				<0.001	<0.001
1/9/2018				0.09		
1/10/2018		<0.001	0.229			
1/11/2018	<0.001				<0.001	<0.001
7/9/2018			0.13			
7/10/2018		<0.001		0.047		
7/11/2018	<0.001				<0.001	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	0.004 (J)		0.11	0.07		<0.001
10/8/2019				0.078		
10/9/2019	0.0036 (J)	<0.001	0.071		<0.001	<0.001
4/7/2020				0.012	<0.001	
4/8/2020	0.0024 (J)	<0.001	0.06			<0.001
8/18/2020	0.00092 (J)	<0.001	0.097	0.069	<0.001	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	0.0041 (J)		0.33	0.028	<0.001	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	0.0038 (J)					
3/12/2021			0.53			
3/15/2021		<0.001				
3/16/2021				0.024		
9/21/2021					<0.001	
9/22/2021	0.0053 (J)	<0.001	0.5	0.0019 (J)		<0.001
2/1/2022	0.003 (J)		0.77	0.042		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			0.309	0.049		
8/31/2022	0.00252				<0.001	
9/1/2022		<0.001				<0.001

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 9:47 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.0011 (J)
1/21/2021	<0.001	0.0014 (J)	
3/11/2021	<0.001	0.0035 (J)	0.0015 (J)
9/22/2021	<0.001	0.0032 (J)	
9/23/2021			<0.001
2/1/2022		0.0024 (J)	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		0.000863 (J)
9/1/2022		0.00174	

Time Series

Constituent: pH (SU) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013			6.22	5.95	5.25	5.38
10/11/2014		4.42				
10/24/2016		4.36				
10/25/2016	6.17					5.51
10/26/2016			6.06	5.27	5.21	
1/3/2017		4.28		5.09		
1/4/2017						5.46
1/5/2017					5.2	
1/6/2017	6.16		6.02			
4/3/2017		4.29				
4/4/2017			6.08			5.43
4/6/2017	6.26			5.22	5.17	
7/11/2017		4.35				
7/12/2017			5.93	5.29	5.24	5.46
7/13/2017	5.99					
10/2/2017		4.32				
10/3/2017				5.08	5.36	5.65
10/4/2017	6.16		5.77			
1/9/2018	6.43	4.44			5.4	
1/10/2018				5.83		5.67
1/11/2018			5.98			
7/9/2018		4.4				
7/10/2018				6.42	5.31	5.71
7/11/2018	6.1		6.01			
1/16/2019	6.05	6.16 (O)	5.83	6.66	5.99	5.59
3/25/2019	6.06	4.4	5.74			
3/26/2019				5.1	5.94	5.77
8/26/2019	5.91	4.26				
8/27/2019			5.7		5.67	5.84
8/28/2019				5.95		
10/7/2019		4.24				
10/8/2019	5.74					
10/9/2019			5.79	6.11	5.66	5.82
4/6/2020	6.02	4.52				
4/7/2020			5.74	5.45	5.86	5.3
8/17/2020		4.23				
8/19/2020	5.81 (D)		5.7	5.14 (D)	5.21	5.73
9/28/2020	5.86	4.41				5.79
9/30/2020				4.99	5.39	
10/1/2020			5.75			
3/10/2021			5.23	4.73	5.69	5.42
3/11/2021	5.85					
3/12/2021		4.54				
9/21/2021	6.03	4.44	5.78	4.68	5.4	
9/23/2021						6.06
1/31/2022	5.94	4.39				
2/2/2022			5.71		5.75	
2/3/2022				4.48		5.89
8/30/2022	5.98	4.58	5.67	5.22	5.55	
9/1/2022						5.8

Time Series

Constituent: pH (SU) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013	5.2	4.17	4.95	4.62	5.96	4.92
10/11/2014				4.58		5.17
10/25/2016				4.79	6.46	5.58
10/26/2016	5.08	4.04	4.95			
1/4/2017	5.06	4.01				5.51
1/5/2017			4.97	4.73	6.25	
4/3/2017					6.25	
4/4/2017				4.68		
4/5/2017		4	4.81			5.51
4/6/2017	4.97					
7/10/2017		3.89				
7/11/2017	5.26			4.72	6.5	
7/12/2017			4.83			5.84
10/2/2017				5.13	6.83	
10/3/2017	5.07					5.55
10/4/2017		4.06	4.71			
1/9/2018				5.59	6.57	
1/10/2018			5.17			5.99
1/11/2018	5.18	3.96				
7/9/2018				5.11		
7/10/2018					6.42	5.5
7/11/2018	4.82	3.95	4.49			
1/16/2019			6.45 (O)	6.82		
1/17/2019	4.91	3.89			8.44 (O)	7.13
3/26/2019			4.96	5.74	6.65	5.57
3/27/2019	5.18	4.11				
8/27/2019	5.17	4.02	4.9	5.58	6.57	
8/28/2019						5.57
10/8/2019	4.93		4.81	5.68	6.65	5.54
10/9/2019		4.25				
4/7/2020	5.05	4.1		6.2	6.83	5.94
4/8/2020			4.81			
8/17/2020		3.94	4.65			
8/18/2020	4.41			5.56	6.39	5.52
9/28/2020			4.76			
9/29/2020	4.77	3.95		5.69		
9/30/2020					6.71	5.47
3/10/2021	4.97	4.08				
3/12/2021					6.21	
3/15/2021			4.74			
3/16/2021				5.53		5.67
9/21/2021	4.92	4.05	4.83			
9/22/2021				5.76		5.57
9/23/2021					6.48	
2/1/2022						5.57
2/2/2022				5.98		
2/3/2022	4.98	4.04	4.97		6.61	
8/30/2022		3.92		5.86		
8/31/2022	4.85		4.76		6.57	
9/1/2022						5.37

Time Series

Constituent: pH (SU) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/16/2013	4.55	4.52	6.1	5.71	4.91	5.05
10/25/2016			6.06	5.41		
10/26/2016	4.45	4.48			4.6	
10/27/2016						4.65
1/4/2017			6.05	5.6	4.63	
1/5/2017	4.45	4.85				
1/6/2017						4.56
4/4/2017		4.58	6.03	5.94		
4/5/2017	4.33					
4/6/2017					4.79	4.5
7/11/2017			5.96		4.73	
7/12/2017						4.56
7/13/2017	4.11	4.74		5.6		
10/2/2017			5.88			
10/3/2017		4.57		5.18		
10/4/2017	4.09				4.74	4.72
1/9/2018				6.14		
1/10/2018		5.31	6.21			
1/11/2018	4.4				5.22	4.34
7/9/2018			6.24			
7/10/2018		4.58		5.7		
7/11/2018	4.07				4.68	4.68
1/16/2019	4.05					
1/17/2019				7.39		
1/18/2019					6.98 (O)	6.87 (O)
1/21/2019		5.05	7.73 (O)			
3/25/2019			6.28			
3/26/2019	4.62			6.08		
3/27/2019					4.77	4.38
7/30/2019		4.74				
8/27/2019		4.77			4.89	
8/28/2019	4.62		6.34	6.05		4.68
10/8/2019				6.09		
10/9/2019	4.66	4.79	6.5		4.68	4.62
4/7/2020				6	4.8	
4/8/2020	4.71	4.66	6.31			4.73
8/18/2020	4.31	4.6	5.89	5.82	4.52	
8/19/2020						4.58
9/29/2020		4.6				
9/30/2020	4.08		6.04	5.82	4.63	
10/1/2020						4.42
3/10/2021					4.82	4.55
3/11/2021	5.2					
3/12/2021			5.86			
3/15/2021		4.56				
3/16/2021				5.74		
9/21/2021					4.72	
9/22/2021	4.63	4.71	6	5.39		4.7
2/1/2022	4.53		5.9	5.76		
2/2/2022		4.79				4.66
2/3/2022					4.63	
8/30/2022			6.01	5.76		

Time Series

Constituent: pH (SU) Analysis Run 11/6/2022 9:47 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	4.33				4.68	
9/1/2022		4.73				4.6

Time Series

Constituent: pH (SU) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			6.25
1/21/2021	5.75	6.13	
3/11/2021	5.82	6.47	6.31
9/22/2021	6.39	6.76	
9/23/2021			6.21
2/1/2022		6.63	
2/3/2022	6.14		6.15
8/31/2022	6.06		6.29
9/1/2022		6.08	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005		<0.005	<0.005	<0.005	<0.005
1/20/2001	<0.005	<0.005	0.014 (O)	<0.005	<0.005	0.017
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005	0.015 (O)	<0.005	<0.005	<0.005
11/1/2001	<0.005	<0.005	0.012 (O)	<0.005	<0.005	<0.005
4/25/2002	<0.005	<0.005	0.01	<0.005	<0.005	0.012
11/20/2002		<0.005	0.026 (O)	0.0064	0.008	0.19 (O)
6/6/2003	<0.005	<0.005	0.022 (O)	0.011	0.0066	0.32 (O)
12/12/2003	<0.005	<0.005	0.028 (O)	<0.005	0.0056	0.013
5/26/2004	<0.005	<0.005	0.012 (O)	0.007	0.0084	0.017
12/7/2004	<0.005	<0.005	0.0073	<0.005	<0.005	0.011
6/21/2005	<0.005	<0.005	0.0087	0.0063	0.0062	0.0088
12/12/2005	<0.005	<0.005	0.013 (O)	<0.005	<0.005	0.011
4/4/2006		<0.005				
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006		<0.005				
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007		<0.005				
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007		<0.005				
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2008		<0.005				
6/23/2008	<0.005	<0.005				
6/24/2008			<0.005	<0.005	<0.005	<0.005
11/3/2008		<0.005				
12/4/2008	<0.005	<0.005				
12/5/2008			<0.005	<0.005	<0.005	<0.005
3/25/2009		<0.005				
7/7/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/14/2009		<0.005				
12/20/2009	<0.005	<0.005				<0.005
12/21/2009			<0.005	<0.005	<0.005	
3/4/2010		<0.005				
6/20/2010	<0.005	<0.005		<0.005	<0.005	<0.005
6/21/2010			<0.005			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.005
1/7/2011	<0.005	<0.005	<0.005		<0.005	
4/15/2011		<0.005				
7/7/2011	<0.005	<0.005		<0.005	<0.005	<0.005
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.005	<0.005		<0.005		<0.005
1/18/2012			<0.005		<0.005	
4/4/2012		<0.005				
7/9/2012	<0.005			<0.005		<0.005
7/10/2012		<0.005	<0.005		<0.005	
10/9/2012		<0.005				
1/17/2013				<0.005		<0.005
1/18/2013	0.009	<0.005	<0.005		<0.005	
4/5/2013		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		0.012
7/17/2013	0.011	<0.005	<0.005		<0.005	
10/11/2013		<0.005				
1/13/2014	0.012			<0.005		<0.005
1/14/2014		<0.005	<0.005		<0.005	
4/3/2014		<0.005				
7/9/2014	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
10/24/2014		<0.005				
1/12/2015			<0.005			
1/13/2015	0.0092			<0.005		<0.005
1/14/2015		<0.005			<0.005	
5/10/2015		<0.005				
7/16/2015	0.014		<0.005	<0.005		<0.005
7/17/2015		<0.005			<0.005	
10/6/2015		<0.005				
1/17/2016						0.023
1/18/2016	0.023	<0.005	<0.005	<0.005	<0.005	
4/26/2016		<0.005				
7/27/2016	0.0323			<0.005		0.002 (J)
7/28/2016		0.001 (J)			<0.005	
7/29/2016			0.0036 (J)			
8/30/2016		<0.005		<0.005	<0.005	0.002 (J)
9/1/2016	0.0438		0.0067 (J)			
10/24/2016		0.0013 (J)				
10/25/2016	0.031					0.0022 (J)
10/26/2016			0.0042 (J)	<0.005	<0.005	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0016 (J)
1/5/2017					0.0014 (J)	
1/6/2017	0.0324		0.0042 (J)			
4/3/2017		<0.005				
4/4/2017			0.0043 (J)			0.0052 (J)
4/6/2017	0.0188 (J)			<0.005	<0.005	
7/11/2017		<0.005				
7/12/2017			0.0033 (J)	<0.005	<0.005	0.0024 (J)
7/13/2017	0.0118					
10/2/2017		<0.005				
10/3/2017				<0.005	<0.005	<0.005
10/4/2017	0.0195		0.0038 (J)			
1/9/2018	<0.005	<0.005			<0.005	
1/10/2018				<0.005		0.0018 (J)
1/11/2018			0.0029 (J)			
7/9/2018		<0.005				
7/10/2018				0.0018 (J)	0.0016 (J)	0.0026 (J)
7/11/2018	<0.005		0.0015 (J)			
1/16/2019	0.0071 (J)	<0.005	<0.005	<0.005	<0.005	0.0018 (J)
3/25/2019	<0.005	<0.005	<0.005			
3/26/2019				<0.005	0.05 (J)	0.0023 (J)
8/26/2019	<0.005	<0.005				
8/27/2019			<0.005		0.0033 (J)	0.0016 (J)
8/28/2019				0.0033 (J)		
10/7/2019		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0072 (J)					
10/9/2019			<0.005	0.0073 (J)	<0.005	0.0024 (J)
4/6/2020	0.0078 (J)	<0.005				
4/7/2020			0.0025 (J)	<0.005	<0.005	0.0013 (J)
8/17/2020		<0.005				
8/19/2020	<0.005		<0.005	<0.005	<0.005	0.002 (J)
9/28/2020	0.01 (J)	<0.005				<0.005
9/30/2020				<0.005	0.0023 (J)	
10/1/2020			<0.005			
3/10/2021			0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)
3/11/2021	<0.005					
3/12/2021		<0.005				
9/21/2021	<0.005	<0.005	<0.005	<0.005	0.0016 (J)	
9/23/2021						0.0018 (J)
1/31/2022	<0.005	<0.005				
2/2/2022			<0.005		0.0017 (J)	
2/3/2022				<0.005		0.0022 (J)
8/30/2022	0.0063	<0.005	0.00265 (J)	<0.005	0.00277 (J)	
9/1/2022						0.00252 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	0.052	<0.005	<0.005
1/20/2001	<0.005	<0.005	<0.005	0.053	<0.005	<0.005
3/14/2001	<0.005	<0.005	<0.005	0.049	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	0.038	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	0.022	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	0.1 (O)	<0.005	<0.005
11/20/2002	<0.005	<0.005	<0.005	0.018	0.0094	<0.005
6/6/2003	<0.005	<0.005	<0.005	<0.005	0.021 (O)	0.021 (O)
12/12/2003	<0.005	<0.005	<0.005	<0.005	0.016 (O)	0.0078
5/26/2004	<0.005	<0.005	<0.005	0.023	<0.005	0.0053
12/7/2004	<0.005	<0.005	<0.005	0.019	<0.005	<0.005
6/21/2005	<0.005	<0.005	<0.005	0.019	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	0.0095	<0.005	<0.005
4/4/2006				0.033		<0.005
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006				<0.005		<0.005
12/4/2006	<0.005	<0.005	<0.005	0.032	<0.005	<0.005
2/15/2007				0.034		<0.005
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007				0.022		<0.005
12/11/2007	<0.005	<0.005	<0.005	0.045	<0.005	<0.005
3/11/2008				0.02		<0.005
6/23/2008	<0.005	<0.005	<0.005			
6/24/2008				<0.005	<0.005	<0.005
11/3/2008				0.052		<0.005
12/4/2008	<0.005	<0.005	<0.005	0.054		
12/5/2008					<0.005	<0.005
3/25/2009				0.072		<0.005
7/8/2009	<0.005	<0.005	<0.005	0.021	<0.005	<0.005
9/14/2009				0.015		<0.005
12/20/2009				0.072	<0.005	<0.005
12/21/2009	<0.005	<0.005	<0.005			
3/4/2010				0.083		<0.005
6/20/2010	<0.005	<0.005	<0.005	0.1	<0.005	
6/21/2010						<0.005
9/14/2010				0.085		<0.005
1/6/2011	<0.005		<0.005			
1/7/2011		<0.005		0.028	<0.005	<0.005
4/15/2011				<0.005		<0.005
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2011				0.02		<0.005
1/17/2012	0.023	<0.005	<0.005	0.016	<0.005	
1/18/2012						<0.005
4/4/2012				0.0156		<0.005
7/9/2012	0.016	<0.005	<0.005	<0.005	0.066 (O)	
7/10/2012						<0.005
10/9/2012				0.0094		<0.005
1/17/2013	0.033	<0.005	<0.005			
1/18/2013				0.0067	0.04 (O)	<0.005
4/5/2013				0.0077		<0.005
7/16/2013	0.0068	<0.005	<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.01	<0.005	<0.005
10/11/2013				0.0087		0.0069
1/13/2014	0.036	<0.005	<0.005		<0.005	
1/14/2014				0.012		<0.005
4/3/2014				0.022		<0.005
7/8/2014	0.017	<0.005	<0.005			
7/9/2014				0.0089	<0.005	0.005
10/24/2014				0.017		<0.005
1/13/2015	0.027	<0.005	<0.005		<0.005	
1/14/2015				<0.005		<0.005
5/10/2015				<0.005		
5/11/2015						<0.005
7/16/2015	<0.005	<0.005	<0.005		<0.005	<0.005
7/17/2015				<0.005		
10/6/2015				<0.005		0.0073
1/17/2016				<0.005	<0.005	0.0031 (J)
1/18/2016		<0.005	<0.005			
1/19/2016	0.023					
4/26/2016				0.00428 (J)		0.00497 (J)
7/26/2016	0.0056 (J)		<0.005			
7/27/2016		0.0025 (J)		0.0038 (J)	<0.005	
7/28/2016						0.0076 (J)
8/31/2016	0.0084 (J)	0.0019 (J)	<0.005			
9/1/2016				0.0056 (J)	<0.005	0.0052 (J)
10/25/2016				0.0023 (J)	<0.005	0.0085 (J)
10/26/2016	0.0052 (J)	0.002 (J)	<0.005			
1/4/2017	0.0062 (J)	<0.005				0.0048 (J)
1/5/2017			<0.005	0.0038 (J)	<0.005	
4/3/2017					<0.005	
4/4/2017				0.0064 (J)		
4/5/2017		<0.005				0.0068 (J)
4/6/2017	0.0195		<0.005			
7/10/2017		<0.005				
7/11/2017	<0.005			0.0044 (J)	<0.005	
7/12/2017			<0.005			0.0048 (J)
10/2/2017				0.004 (J)	<0.005	
10/3/2017	0.0079 (J)					0.0051 (J)
10/4/2017		<0.005	<0.005			
1/9/2018				0.0019 (J)	0.0019 (J)	
1/10/2018			<0.005			0.0018 (J)
1/11/2018	0.0054 (J)	<0.005				
7/9/2018				0.0029 (J)		
7/10/2018					0.0086 (J)	0.0045 (J)
7/11/2018	0.0022 (J)	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.005	<0.005			0.0029 (J)	0.0031 (J)
3/26/2019			<0.005	0.0022 (J)	0.0074 (J)	0.0033 (J)
3/27/2019	0.01 (J)	<0.005				
8/27/2019	<0.005	<0.005	<0.005	0.0035 (J)	0.0092 (J)	
8/28/2019						0.004 (J)
10/8/2019	<0.005		<0.005	0.0026 (J)	0.014	0.0023 (J)
10/9/2019		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.0021 (J)	<0.005		0.005 (J)	0.0029 (J)	<0.005
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	0.0028 (J)			0.0029 (J)	0.0022 (J)	0.0058 (J)
9/28/2020			<0.005			
9/29/2020	0.0024 (J)	<0.005		0.0051 (J)		
9/30/2020					<0.005	0.0037 (J)
3/10/2021	0.0044 (J)	0.003 (J)				
3/12/2021					0.0064	
3/15/2021			<0.005			
3/16/2021				0.0034 (J)		0.0044 (J)
9/21/2021	0.0038 (J)	<0.005	<0.005			
9/22/2021				0.0034 (J)		0.0031 (J)
9/23/2021					0.0016 (J)	
2/1/2022						0.0024 (J)
2/2/2022				0.0038 (J)		
2/3/2022	0.019	<0.005	<0.005		0.0031 (J)	
8/30/2022		<0.005		0.00544		
8/31/2022	0.00344 (J)		<0.005		0.00192 (J)	
9/1/2022						0.00334 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				0.0062
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		<0.005	0.048	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		<0.005	0.014	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		<0.005	0.018	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		<0.005	<0.005	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		<0.005	0.02	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.005	0.015	<0.005	<0.005
7/17/2013	<0.005	<0.005	<0.005	0.037	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		<0.005	0.043	<0.005	<0.005
7/9/2014	<0.005	<0.005		0.023		<0.005
7/10/2014			<0.005		<0.005	
1/12/2015			<0.005			
1/13/2015		<0.005				
1/14/2015	<0.005			0.022	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				0.033		<0.005
7/18/2015	<0.005		<0.005		<0.005	
1/17/2016		<0.005	<0.005	0.021		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		0.002 (J)				
7/28/2016			<0.005	0.0341		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0011 (J)				0.0022 (J)	
8/31/2016		<0.005			0.0014 (J)	<0.005
9/1/2016	0.0012 (J)		<0.005	0.0297		
10/25/2016			0.0014 (J)	0.0095 (J)		
10/26/2016	0.0013 (J)	0.0035 (J)			0.001 (J)	
10/27/2016						<0.005
1/4/2017			0.0014 (J)	0.022	<0.005	
1/5/2017	0.0012 (J)	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	<0.005	0.0236		
4/5/2017	<0.005					
4/6/2017					<0.005	<0.005
7/11/2017			<0.005		<0.005	
7/12/2017						<0.005
7/13/2017	0.0018 (J)	<0.005		0.013		
10/2/2017			<0.005			
10/3/2017		<0.005		0.01 (J)		
10/4/2017	0.0042 (J)				0.0023 (J)	<0.005
1/9/2018				0.0162		
1/10/2018		<0.005	<0.005			
1/11/2018	<0.005				<0.005	<0.005
7/9/2018			<0.005			
7/10/2018		<0.005		0.016		
7/11/2018	0.0016 (J)				<0.005	<0.005
1/16/2019	<0.005					
1/17/2019				0.011		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.0014 (J)			
3/25/2019			<0.005			
3/26/2019	<0.005			0.022		
3/27/2019					<0.005	<0.005
7/30/2019		<0.005				
8/27/2019		<0.005			<0.005	
8/28/2019	<0.005		0.0014 (J)	0.019		<0.005
10/8/2019				0.019		
10/9/2019	<0.005	<0.005	<0.005		<0.005	<0.005
4/7/2020				0.012	<0.005	
4/8/2020	<0.005	<0.005	0.0013 (J)			<0.005
8/18/2020	0.002 (J)	<0.005	<0.005	0.013	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	<0.005		<0.005	0.0061 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0016 (J)					
3/12/2021			<0.005			
3/15/2021		<0.005				
3/16/2021				0.0055		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.0024 (J)	0.0027 (J)		<0.005
2/1/2022	<0.005		<0.005	0.0054		
2/2/2022		<0.005				<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.00192 (J)	0.00648		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.005	<0.005	<0.005
9/22/2021	<0.005	<0.005	
9/23/2021			<0.005
2/1/2022		<0.005	
2/3/2022	<0.005		<0.005
8/31/2022	<0.005		<0.005
9/1/2022		<0.005	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		140		100	120	87
9/1/2016	73		210			
10/24/2016		160				
10/25/2016	26					83
10/26/2016			230	130	120	
1/3/2017		140		120		
1/4/2017						99
1/5/2017					130	
1/6/2017	23		220			
4/3/2017		140				
4/4/2017			230			110
4/6/2017	25			140	150	
7/11/2017		130				
7/12/2017			210	140	140	100
7/13/2017	65					
10/2/2017		150				
10/3/2017				130	140	63
10/4/2017	13		290			
1/9/2018	45	120			140	
1/10/2018				110		86
1/11/2018			210			
7/9/2018		123				
7/10/2018				48.1	128	77.7
7/11/2018	37.7		177			
1/16/2019	24.5	129	244	184	402	71.2
3/25/2019	14.7	152	245			
3/26/2019				222	319	73.8
10/7/2019		156				
10/8/2019	32.8					
10/9/2019			38.5	90.8	255	76.3
4/6/2020	20.3	123				
4/7/2020			221	180	180	83
9/28/2020	20	93.6				71.6
9/30/2020				339	339	
10/1/2020			178			
3/10/2021			160	572	1160	61.2
3/11/2021	12					
3/12/2021		103				
9/21/2021	11.1	96.5	232	829	645	
9/23/2021						37.3
1/31/2022	15	89.7				
2/2/2022			338		1460	
2/3/2022				797		49.2
8/30/2022	10.6	77.4	379	403	978	
9/1/2022						44

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	64	1100	43			
9/1/2016				730	120	430
10/25/2016				420	100	360
10/26/2016	56	900	29			
1/4/2017	65	880				360
1/5/2017			32	430	140	
4/3/2017					150	
4/4/2017				600		
4/5/2017		990				440
4/6/2017	110		49			
7/10/2017		480				
7/11/2017	49			400	110	
7/12/2017			16			490
10/2/2017				470	56	
10/3/2017	140					780
10/4/2017		760	33			
1/9/2018				440	84	
1/10/2018			22			470
1/11/2018	270	780				
7/9/2018				369		
7/10/2018					43	787
7/11/2018	211	598	17.8			
1/16/2019			20.2	291		
1/17/2019	50.3	454			45.2	780
3/26/2019			33.6	192	54	87.9
3/27/2019	76.8	579				
10/8/2019	310		22	428	45.8	872
10/9/2019		392				
4/7/2020	446	297		456	26.9	844
4/8/2020			30.7			
9/28/2020			25.6			
9/29/2020	516	237		93.5		
9/30/2020					18.5	736
3/10/2021	687	282				
3/12/2021					21.1	
3/15/2021			30.6			
3/16/2021				92		821
9/21/2021	433	315	36.6			
9/22/2021				444		1040
9/23/2021					124	
2/1/2022						1010
2/2/2022				589		
2/3/2022	347	333	32.1		102	
8/30/2022		415		410		
8/31/2022	653		29		88.5	
9/1/2022						1140

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		21			700	84
9/1/2016	310		180	36		
10/25/2016			79	16		
10/26/2016	280	100			850	
10/27/2016						76
1/4/2017			170	45	680	
1/5/2017	310	22				
1/6/2017						66
4/4/2017		29	300	46		
4/5/2017	460					
4/6/2017					220	79
7/11/2017			400		210	
7/12/2017						75
7/13/2017	490	20		33		
10/2/2017			390			
10/3/2017		20		34		
10/4/2017	1100				730	78
1/9/2018				29		
1/10/2018		9.5	99			
1/11/2018	810				180	110
7/9/2018			99.2			
7/10/2018		8.5		33.2		
7/11/2018	902				381	87.4
1/16/2019	422					
1/17/2019				24.1		
1/18/2019					107	56.9
1/21/2019		10.2	35.5			
3/25/2019			95.6			
3/26/2019	439			83.9		
3/27/2019					103	76.2
7/30/2019		12.3				
10/8/2019				85.6		
10/9/2019	346	10.1	58.5		80.2	41.1
4/7/2020				33.2	333	
4/8/2020	239	12.9	428			34.2
9/29/2020		8.6				
9/30/2020	193		956	306	65.5	
10/1/2020						35
3/10/2021					101	38.7
3/11/2021	244					
3/12/2021			933			
3/15/2021		10				
3/16/2021				343		
9/21/2021					52.4	
9/22/2021	394	10.3	905	14.6		42.7
2/1/2022	416		862	374		
2/2/2022		9				31.5
2/3/2022					46.2	
8/30/2022			606	451		
8/31/2022	721				45.3	
9/1/2022		10.3				28.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			1.6
1/21/2021	5	0.79 (J)	
3/11/2021	62.4	<1	0.52 (J)
9/22/2021	84.6	<1	
9/23/2021			0.7 (J)
2/1/2022		<1	
2/3/2022	64.8		<1
8/31/2022	54.6		1.12
9/1/2022		0.682	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002		<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0005 (J)		<0.002			
10/24/2016		<0.002				
10/25/2016	<0.002					<0.002
10/26/2016			<0.002	<0.002	<0.002	
1/3/2017		<0.002		<0.002		
1/4/2017						<0.002
1/5/2017					<0.002	
1/6/2017	<0.002		<0.002			
4/3/2017		<0.002				
4/4/2017			7E-05 (J)			5E-05 (J)
4/6/2017	<0.002			<0.002	<0.002	
7/11/2017		5E-05 (J)				
7/12/2017			<0.002	<0.002	<0.002	<0.002
7/13/2017	<0.002					
10/2/2017		6E-05 (J)				
10/3/2017				<0.002	<0.002	<0.002
10/4/2017	<0.002		<0.002			
1/9/2018	<0.002	<0.002			<0.002	
1/10/2018				<0.002		<0.002
1/11/2018			7E-05 (J)			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	<0.002		<0.002			
8/26/2019	<0.002	<0.002				
8/27/2019			<0.002		<0.002	<0.002
8/28/2019				5.7E-05 (J)		
10/7/2019		6.2E-05 (J)				
10/8/2019	<0.002					
10/9/2019			<0.002	0.00031 (J)	<0.002	5.4E-05 (J)
4/6/2020	<0.002	<0.002				
4/7/2020			<0.002	<0.002	<0.002	5.4E-05 (J)
8/17/2020		<0.002				
8/19/2020	<0.002		<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/28/2020	<0.002	<0.002				<0.002
9/30/2020				<0.002	<0.002	
10/1/2020			<0.002			
3/10/2021			<0.002	<0.002	<0.002	<0.002
3/11/2021	<0.002					
3/12/2021		<0.002				
9/21/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.002	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2016	<0.002	<0.002	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	<0.002
10/26/2016	<0.002	0.0003 (J)	<0.002			
1/4/2017	<0.002	<0.002				<0.002
1/5/2017			<0.002	<0.002	<0.002	
4/3/2017					<0.002	
4/4/2017				7E-05 (J)		
4/5/2017		0.0002 (J)				6E-05 (J)
4/6/2017	6E-05 (J)		<0.002			
7/10/2017		0.0002 (J)				
7/11/2017	<0.002			6E-05 (J)	<0.002	
7/12/2017			<0.002			<0.002
10/2/2017				<0.002	<0.002	
10/3/2017	7E-05 (J)					<0.002
10/4/2017		0.0002 (J)	<0.002			
1/9/2018				<0.002	<0.002	
1/10/2018			<0.002			5E-05 (J)
1/11/2018	0.0001 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	<0.002			
8/27/2019	<0.002	0.00011 (J)	<0.002	<0.002	<0.002	
8/28/2019						<0.002
10/8/2019	9.8E-05 (J)		<0.002	<0.002	<0.002	<0.002
10/9/2019		0.00014 (J)				
4/7/2020	0.00019 (J)	0.00013 (J)		<0.002	<0.002	<0.002
4/8/2020			<0.002			
8/17/2020		<0.002	<0.002			
8/18/2020	0.00021 (J)			<0.002	<0.002	<0.002
9/28/2020			<0.002			
9/29/2020	0.00017 (J)	<0.002		<0.002		
9/30/2020					<0.002	<0.002
3/10/2021	0.00022 (J)	<0.002				

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.002	
3/15/2021			<0.002			
3/16/2021				<0.002		<0.002
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	<0.002				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				<0.002
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
8/31/2016		<0.002			<0.002	<0.002
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			<0.002	<0.002		
10/26/2016	<0.002	<0.002			<0.002	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	<0.002	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		<0.002	<0.002	5E-05 (J)		
4/5/2017	0.0001 (J)					
4/6/2017					<0.002	<0.002
7/11/2017			<0.002		<0.002	
7/12/2017						<0.002
7/13/2017	<0.002	<0.002		<0.002		
10/2/2017			<0.002			
10/3/2017		<0.002		<0.002		
10/4/2017	0.0001 (J)				0.0001 (J)	<0.002
1/9/2018				<0.002		
1/10/2018		<0.002	<0.002			
1/11/2018	0.0001 (J)				6E-05 (J)	<0.002
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				<0.002	<0.002
7/30/2019		0.00011 (J)				
8/27/2019		<0.002			8.6E-05 (J)	
8/28/2019	6.6E-05 (J)		<0.002	<0.002		<0.002
10/8/2019				<0.002		
10/9/2019	7.6E-05 (J)	<0.002	<0.002		<0.002	<0.002
4/7/2020				<0.002	6.5E-05 (J)	
4/8/2020	5.6E-05 (J)	<0.002	<0.002			<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	0.00017 (J)	
8/19/2020						<0.002
9/29/2020		<0.002				
9/30/2020	<0.002		<0.002	<0.002	<0.002	
10/1/2020						<0.002
3/10/2021					<0.002	<0.002
3/11/2021	<0.002					

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
3/12/2021			<0.002			
3/15/2021		<0.002				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.002	<0.002	<0.002
9/22/2021	<0.002	<0.002	
9/23/2021			<0.002
2/1/2022		<0.002	
2/3/2022	<0.002		<0.002
8/31/2022	<0.002		<0.002
9/1/2022		<0.002	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		234		224	365	225
9/1/2016	3660		1080			
10/24/2016		216				
10/25/2016	3560					230
10/26/2016			1050	297	373	
1/3/2017		333		366		
1/4/2017						349
1/5/2017					543	
1/6/2017	3490		1060			
4/3/2017		288				
4/4/2017			994			356
4/6/2017	3170			279	434	
7/11/2017		188				
7/12/2017			1070	308	454	357
7/13/2017	2280					
10/2/2017		210				
10/3/2017				288	389	192
10/4/2017	3350		1100			
1/9/2018	2640	118			415	
1/10/2018				493		277
1/11/2018			838			
7/9/2018		235				
7/10/2018				1730 (O)	453	349
7/11/2018	2200		799			
1/16/2019	2100	219	530	382	1320	341
3/25/2019	2100	240	479			
3/26/2019				1040	1250	317
10/7/2019		275				
10/8/2019	1840					
10/9/2019			502	2010	903	338
4/6/2020	1670	214				
4/7/2020			482	483	775	195
9/28/2020	1450	175				373
9/30/2020				652	816	
10/1/2020			424			
3/10/2021			434	1040	2120	329
3/11/2021	1220					
3/12/2021		163				
9/21/2021	1210	145	476	1240	985	
9/23/2021						360
1/31/2022	1260	153				
2/2/2022			654		2440	
2/3/2022				1240		315
8/30/2022	1340	154	882	886	1810	
9/1/2022						228

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	119	1560	77			
9/1/2016				1170	539	878
10/25/2016				633	449	585
10/26/2016	108	1520	<10			
1/4/2017	182	1430				783
1/5/2017			146	781	565	
4/3/2017					632	
4/4/2017				916		
4/5/2017		1200				722
4/6/2017	248		23 (J)			
7/10/2017		1100				
7/11/2017	88			675	569	
7/12/2017			39			962
10/2/2017				689	559	
10/3/2017	248					1240
10/4/2017		986	38			
1/9/2018				653	520	
1/10/2018			<10			935
1/11/2018	681	1020				
7/9/2018				659		
7/10/2018					524	1040
7/11/2018	440	888	63			
1/16/2019			44	656		
1/17/2019	118	765			518 (D)	1320
3/26/2019			72	496	541	1380
3/27/2019	138	673				
10/8/2019	613		51	841	526	1500
10/9/2019		647				
4/7/2020	780	464		843	428	1500
4/8/2020			65			
9/28/2020			60			
9/29/2020	1100	440		187		
9/30/2020					434	1140
3/10/2021	1240	566				
3/12/2021					353	
3/15/2021			<10			
3/16/2021				137		980
9/21/2021	842	558	83			
9/22/2021				864		1680
9/23/2021					556	
2/1/2022						1990
2/2/2022				1130		
2/3/2022	538	566	72		516	
8/30/2022		713		720		
8/31/2022	1240		55		530	
9/1/2022						1720

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		39			1570	173
9/1/2016	1270		470	184		
10/25/2016			289	<10		
10/26/2016	1320	135			1840	
10/27/2016						221
1/4/2017			639	242	1560	
1/5/2017	1770	99				
1/6/2017						259
4/4/2017		54	660	187		
4/5/2017	1600					
4/6/2017					368	169
7/11/2017			836		383	
7/12/2017						163
7/13/2017	1940	50		86		
10/2/2017			698			
10/3/2017		18 (J)		66		
10/4/2017	2370				1500	168
1/9/2018				167		
1/10/2018		<10	322			
1/11/2018	2350				438	190
7/9/2018			461			
7/10/2018		49		180		
7/11/2018	2260				876	165
1/16/2019	1540					
1/17/2019				178		
1/18/2019					154	118
1/21/2019		39	307			
3/25/2019			449			
3/26/2019	1220			292		
3/27/2019					158	104
7/30/2019		70				
10/8/2019				278		
10/9/2019	1100	46	434		211	128
4/7/2020				106	819	
4/8/2020	881	38	986			80
9/29/2020		33				
9/30/2020	752		1860	634	113	
10/1/2020						111
3/10/2021					210	89
3/11/2021	705					
3/12/2021			1730			
3/15/2021		11				
3/16/2021				454		
9/21/2021					87	
9/22/2021	1530	33	1430	51		94
2/1/2022	1580		1580	783		
2/2/2022		43				96
2/3/2022					89	
8/30/2022			1210	807		
8/31/2022	2050				163	
9/1/2022		9 (J)				85

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			58
1/21/2021	41	50	
3/11/2021	149	53	57
9/22/2021	184	53	
9/23/2021			56
2/1/2022		75	
2/3/2022	156		58
8/31/2022	143		44
9/1/2022		20	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.02	<0.02	0.06	0.038	0.12	<0.02
11/21/2000	<0.02		0.068	0.013	0.13	<0.02
1/20/2001	<0.02	<0.02	0.12	0.038	0.14	<0.02
3/14/2001	<0.02	<0.02	0.08	0.077 (O)	0.13	<0.02
7/16/2001	<0.02	<0.02	0.11	0.12 (O)	0.18	<0.02
11/1/2001	<0.02	<0.02	0.079	0.21 (O)	0.12	<0.02
4/25/2002	<0.02	<0.02	0.11	0.086 (O)	0.15	<0.02
11/20/2002		<0.02	0.15	0.14 (O)	0.15	0.0069
6/6/2003	0.047	0.017	0.12	0.12 (O)	0.11	0.16 (O)
12/12/2003	0.0086	0.011	0.13	0.014	0.089	<0.02
5/26/2004	<0.02	<0.02	0.095	0.06 (O)	0.09	<0.02
12/7/2004	<0.02	<0.02	0.067	0.054	0.072	<0.02
6/21/2005	<0.02	<0.02	0.062	0.038	0.04	<0.02
12/12/2005	<0.02	<0.02	0.09	0.0056	0.021	<0.02
4/4/2006		<0.02				
6/27/2006	<0.02	<0.02	0.083	0.0043	0.02	0.0029
8/30/2006		<0.02				
12/4/2006	0.0027	<0.02	0.084	0.0044	0.022	0.0047
2/15/2007		<0.02				
6/23/2007	0.0027	<0.02	0.081	0.0039	0.027	0.0029
9/11/2007		<0.02				
12/11/2007	0.0033	<0.02	0.067	0.0029	0.017	<0.02
3/11/2008		<0.02				
6/23/2008	0.0074	<0.02				
6/24/2008			0.059	0.003	0.053	<0.02
11/3/2008		<0.02				
12/4/2008	0.0084	<0.02				
12/5/2008			0.054	<0.02	0.0078	<0.02
3/25/2009		<0.02				
7/7/2009	0.023	<0.02	0.038	<0.02	0.012	<0.02
9/14/2009		<0.02				
12/20/2009	0.007	<0.02				<0.02
12/21/2009			0.06	<0.02	0.011	
3/4/2010		<0.02				
6/20/2010	0.0047	<0.02		<0.02	0.0083	0.0037
6/21/2010			0.036			
9/14/2010		<0.02				
1/6/2011				0.0067		<0.02
1/7/2011	0.018	<0.02	0.043		0.0079	
4/15/2011		<0.02				
7/7/2011	0.019	<0.02		0.019	0.007	0.0045
7/8/2011			0.044			
9/25/2011		<0.02				
1/17/2012	0.0298	<0.02		0.021		<0.02
1/18/2012			0.045		0.0116	
4/4/2012		<0.02				
7/9/2012	0.14			0.032		0.0026
7/10/2012		<0.02	0.048		0.0096	
10/9/2012		<0.02				
1/17/2013				0.034		<0.02
1/18/2013	0.21	<0.02	0.049		<0.02	
4/5/2013		<0.02				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.021		<0.02
7/17/2013	0.18	<0.02	0.05		<0.02	
10/11/2013		<0.02				
1/13/2014	0.24			0.008		<0.02
1/14/2014		<0.02	0.067		<0.02	
4/3/2014		0.0015 (J)				
7/9/2014	0.22	0.0012 (J)	0.055	0.0052	0.0039 (J)	0.0041 (J)
10/24/2014		<0.02				
1/12/2015			0.066			
1/13/2015	0.19			0.0036 (J)		0.0029 (J)
1/14/2015		<0.02			0.005	
5/10/2015		<0.02				
7/16/2015	0.23		0.045	0.004 (J)		0.0034 (J)
7/17/2015		<0.02			0.0045 (J)	
10/6/2015		0.0012 (J)				
1/17/2016						0.0046 (J)
1/18/2016	0.41	0.00079 (J)	0.049	0.0069	0.0044 (J)	
4/26/2016		<0.02				
7/27/2016	0.397			0.0046 (J)		0.0064 (J)
7/28/2016		<0.02			0.0038 (J)	
7/29/2016			0.0388			
10/24/2016		<0.02				
10/25/2016	0.425			<0.02		
1/3/2017		<0.02				
1/4/2017						<0.02
1/5/2017					0.0077 (J)	
1/6/2017	0.41		0.0341			
4/3/2017		<0.02				
4/4/2017			0.0371			0.0061 (J)
4/6/2017	0.297			0.0063 (J)	0.0069 (J)	
7/11/2017		<0.02				
7/12/2017			0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)
7/13/2017	0.194					
10/2/2017		<0.02				
10/4/2017	0.316					
1/9/2018	0.194	0.0014 (J)			0.0086 (J)	
1/10/2018				0.0077 (J)		0.0056 (J)
1/11/2018			0.0327			
7/9/2018		<0.02				
7/10/2018				0.016	0.0098 (J)	0.0056 (J)
7/11/2018	0.15		0.02			
1/16/2019	0.16	<0.02	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)
3/25/2019	0.18	<0.02	0.004 (J)			
3/26/2019				0.0058 (J)	0.086	0.0051 (J)
10/7/2019		<0.02				
10/8/2019	0.11					
10/9/2019			<0.02	0.033 (J)	0.018 (J)	<0.02
4/6/2020	0.12	<0.02				
4/7/2020			0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)
9/28/2020	0.1	<0.02				0.0042 (J)
9/30/2020				0.0037 (J)	0.018	
10/1/2020			0.0047 (J)			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			0.0054 (J)	0.0026 (J)	0.027	0.005 (J)
3/11/2021	0.14					
3/12/2021		<0.02				
9/21/2021	0.096	<0.02	0.0027 (J)	0.0039 (J)	0.015	
9/23/2021						0.0042 (J)
1/31/2022	0.1	<0.02				
2/2/2022			0.0031 (J)		0.0099 (J)	
2/3/2022				0.0046 (J)		0.0028 (J)
8/30/2022	0.11	0.00372 (J)	0.00943 (J)	0.0138 (J)	0.0192 (J)	
9/1/2022						0.00748 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/21/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/20/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/20/2002	0.0071	<0.02	<0.02	0.03	0.0099	0.0069
6/6/2003	0.0098	<0.02	0.0063	0.0065	0.019 (O)	0.082 (O)
12/12/2003	0.0074	<0.02	<0.02	0.0052	0.018 (O)	0.012
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
12/7/2004	<0.02	<0.02	<0.02	0.0074	<0.02	<0.02
6/21/2005	<0.02	<0.02	<0.02	0.01	<0.02	<0.02
12/12/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4/4/2006				0.013		<0.02
6/27/2006	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
8/30/2006				0.0039		<0.02
12/4/2006	<0.02	<0.02	<0.02	0.016	<0.02	0.0031
2/15/2007				0.017		0.0025
6/23/2007	0.0036	<0.02	<0.02	0.0076	<0.02	0.0032
9/11/2007				0.012		<0.02
12/11/2007	<0.02	<0.02	<0.02	0.017	<0.02	<0.02
3/11/2008				0.012		<0.02
6/23/2008	<0.02	<0.02	<0.02			
6/24/2008				0.0069	<0.02	<0.02
11/3/2008				0.016		0.0032
12/4/2008	<0.02	<0.02	<0.02	0.013		
12/5/2008					<0.02	<0.02
3/25/2009				0.014		<0.02
7/8/2009	0.0026	<0.02	<0.02	0.014	<0.02	0.0036
9/14/2009				0.0072		0.0026
12/20/2009				0.02	<0.02	0.0031
12/21/2009	<0.02	<0.02	<0.02			
3/4/2010				0.023		<0.02
6/20/2010	<0.02	<0.02	<0.02	0.017	<0.02	
6/21/2010						0.0025
9/14/2010				0.018		0.0035
1/6/2011	0.003		0.0028			
1/7/2011		<0.02		0.019	<0.02	0.0036
4/15/2011				0.019		<0.02
7/7/2011	0.004	<0.02	<0.02	0.014	0.0036	0.003
9/25/2011				0.015		0.0037
1/17/2012	<0.02	<0.02	<0.02	0.021	<0.02	
1/18/2012						<0.02
4/4/2012				0.0191		<0.02
7/9/2012	0.005	<0.02	<0.02	0.026	0.0059	
7/10/2012						0.0026
10/9/2012				0.049		0.007
1/17/2013	0.005	<0.02	<0.02			
1/18/2013				0.036	<0.02	<0.02
4/5/2013				0.04		<0.02
7/16/2013	<0.02	<0.02	<0.02			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.062	<0.02	<0.02
10/11/2013				0.032		<0.02
1/13/2014	<0.02	<0.02	<0.02		<0.02	
1/14/2014				0.044		<0.02
4/3/2014				0.077 (O)		0.0032 (J)
7/8/2014	0.0024 (J)	0.0034 (J)	0.002 (J)			
7/9/2014				0.032	0.0012 (J)	0.0031 (J)
10/24/2014				0.045		0.0028 (J)
1/13/2015	0.0023 (J)	<0.02	0.0015 (J)		0.0013 (J)	
1/14/2015				0.031		0.0034 (J)
5/10/2015				0.013		
5/11/2015						0.0026 (J)
7/16/2015	0.002 (J)	0.0049 (J)	<0.02		<0.02	0.0028 (J)
7/17/2015				0.028		
10/6/2015				0.02		0.0016 (J)
1/17/2016				0.028	0.0013 (J)	0.0029 (J)
1/18/2016		0.0058	0.0011 (J)			
1/19/2016	0.0025 (J)					
4/26/2016				0.0181		0.00296 (J)
7/26/2016	0.0027 (J)		<0.02			
7/27/2016		0.0058 (J)		0.0189	<0.02	
7/28/2016						0.0026 (J)
10/25/2016				0.0206	<0.02	<0.02
1/4/2017	<0.02	<0.02				<0.02
1/5/2017			<0.02	0.0172	<0.02	
4/3/2017					0.002 (J)	
4/4/2017				0.0235		
4/5/2017		0.0039 (J)				0.0033 (J)
4/6/2017	0.0025 (J)		<0.02			
7/10/2017		0.0062 (J)				
7/11/2017	0.0027 (J)			0.0136	0.0022 (J)	
7/12/2017			0.0016 (J)			0.0037 (J)
10/2/2017				0.0175	0.0022 (J)	
10/3/2017						0.0036 (J)
1/9/2018				0.0103	0.0021 (J)	
1/10/2018			0.0019 (J)			0.0029 (J)
1/11/2018	0.0019 (J)	0.0025 (J)				
7/9/2018				0.0078 (J)		
7/10/2018					0.0025 (J)	0.0025 (J)
7/11/2018	0.0021 (J)	0.0059 (J)	0.0097 (J)			
1/16/2019			<0.02	0.0043 (J)		
1/17/2019	0.0021 (J)	<0.02			<0.02	0.0021 (J)
3/26/2019			0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)
3/27/2019	0.0023 (J)	0.0049 (J)				
10/8/2019	<0.02		<0.02	<0.02	<0.02	<0.02
10/9/2019		0.0021 (J)				
4/7/2020	<0.02	0.0024 (J)		0.0026 (J)	<0.02	<0.02
4/8/2020			<0.02			
9/28/2020			<0.02			
9/29/2020	0.0023 (J)	0.0046 (J)		<0.02		
9/30/2020					0.0028 (J)	0.0028 (J)
3/10/2021	0.0023 (J)	0.0055 (J)				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					0.0037 (J)	
3/15/2021			<0.02			
3/16/2021				<0.02		0.0034 (J)
9/21/2021	0.002 (J)	0.0051 (J)	<0.02			
9/22/2021				0.0052 (J)		0.0025 (J)
9/23/2021					0.0022 (J)	
2/1/2022						0.0021 (J)
2/2/2022				0.004 (J)		
2/3/2022	0.0031 (J)	0.0052 (J)	<0.02		0.0023 (J)	
8/30/2022		0.00949 (J)		0.00933 (J)		
8/31/2022	0.00481 (J)		<0.02		0.00476 (J)	
9/1/2022						0.0065 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.02					<0.02
11/21/2000	<0.02	<0.02				<0.02
1/20/2001	<0.02	<0.02				<0.02
3/14/2001	<0.02	<0.02				<0.02
7/16/2001	<0.02	<0.02				<0.02
11/1/2001	<0.02	<0.02				<0.02
4/25/2002	<0.02	<0.02				<0.02
11/20/2002	<0.02	<0.02				0.014
6/6/2003	<0.02	<0.02				<0.02
12/12/2003	<0.02	<0.02				<0.02
5/26/2004	<0.02	<0.02				<0.02
12/7/2004	<0.02	<0.02				<0.02
6/21/2005	<0.02	<0.02				<0.02
12/12/2005	<0.02	<0.02				<0.02
6/27/2006	0.0025	<0.02				<0.02
12/4/2006	<0.02	<0.02				<0.02
6/23/2007	<0.02	<0.02				<0.02
12/11/2007	<0.02	<0.02				<0.02
6/23/2008						<0.02
6/24/2008	<0.02	<0.02				
12/4/2008		<0.02				<0.02
12/5/2008	<0.02					
7/8/2009	<0.02	<0.02				0.0029
12/20/2009		<0.02				
12/21/2009	<0.02					<0.02
6/20/2010		<0.02				<0.02
6/21/2010	<0.02		<0.02	<0.02	<0.02	
1/6/2011		<0.02				
1/7/2011	<0.02		0.0029	0.0031	<0.02	<0.02
7/7/2011			<0.02			
7/8/2011	0.0031		0.0046	0.0048	<0.02	<0.02
1/17/2012		<0.02				
1/18/2012	<0.02		<0.02	<0.02	<0.02	<0.02
7/9/2012		<0.02				
7/10/2012	<0.02		0.0081	<0.02	<0.02	<0.02
1/17/2013		<0.02				
1/18/2013	<0.02		0.0063	<0.02	<0.02	<0.02
7/17/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/13/2014		<0.02				
1/14/2014	<0.02		<0.02	0.006	<0.02	<0.02
7/9/2014	0.0012 (J)	<0.02		0.0019 (J)		0.0016 (J)
7/10/2014			0.0026 (J)		0.0053	
1/12/2015			0.0031 (J)			
1/13/2015		<0.02				
1/14/2015	0.002 (J)			0.0037 (J)	0.0013 (J)	<0.02
7/16/2015		<0.02				
7/17/2015				0.0028 (J)		0.0029 (J)
7/18/2015	<0.02		0.003 (J)		0.0043 (J)	
1/17/2016		<0.02	0.0025 (J)	0.0039 (J)		
1/18/2016	0.0019 (J)				<0.02	<0.02
7/27/2016		<0.02				
7/28/2016			0.0024 (J)	0.0022 (J)		<0.02

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0031 (J)				0.0052 (J)	
10/25/2016			<0.02			
1/4/2017			<0.02	<0.02	<0.02	
1/5/2017	<0.02	<0.02				
1/6/2017						<0.02
4/4/2017		<0.02	0.0024 (J)	0.003 (J)		
4/5/2017	0.0029 (J)					
4/6/2017					<0.02	<0.02
7/11/2017			0.003 (J)		0.0016 (J)	
7/12/2017						0.0013 (J)
7/13/2017	0.0037 (J)	<0.02		0.0019 (J)		
10/2/2017			0.0028 (J)			
1/9/2018				0.0046 (J)		
1/10/2018		<0.02	0.0026 (J)			
1/11/2018	0.0026 (J)				0.0012 (J)	<0.02
7/9/2018			<0.02			
7/10/2018		<0.02		0.0031 (J)		
7/11/2018	0.0032 (J)				0.0025 (J)	<0.02
1/16/2019	<0.02					
1/17/2019				0.0022 (J)		
1/18/2019					<0.02	<0.02
1/21/2019		0.0024 (J)	0.0031 (J)			
3/25/2019			0.0024 (J)			
3/26/2019	0.0024 (J)			0.0041 (J)		
3/27/2019					0.002 (J)	<0.02
7/30/2019		<0.02				
10/8/2019				<0.02		
10/9/2019	<0.02	<0.02	<0.02		<0.02	<0.02
4/7/2020				<0.02	0.0014 (J)	
4/8/2020	<0.02	<0.02	<0.02			0.0015 (J)
9/29/2020		<0.02				
9/30/2020	<0.02		0.0029 (J)	0.0029 (J)	<0.02	
10/1/2020						<0.02
3/10/2021					<0.02	<0.02
3/11/2021	<0.02					
3/12/2021			0.0038 (J)			
3/15/2021		<0.02				
3/16/2021				0.003 (J)		
9/21/2021					<0.02	
9/22/2021	<0.02	<0.02	0.0033 (J)	<0.02		<0.02
2/1/2022	0.0022 (J)		0.0039 (J)	0.0036 (J)		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.00647 (J)	0.00715 (J)		
8/31/2022	0.00599 (J)				0.00396 (J)	
9/1/2022		0.0045 (J)				0.00514 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.02	<0.02	0.0024 (J)
9/22/2021	<0.02	<0.02	
9/23/2021			<0.02
2/1/2022		<0.02	
2/3/2022	<0.02		<0.02
8/31/2022	<0.02		<0.02
9/1/2022		0.00414 (J)	

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.02	<0.02	<0.02	0.026 (O)	<0.02 (O)	<0.02
11/21/2000	<0.02		<0.02	<0.02	0.024 (O)	<0.02
1/20/2001	<0.02	0.025	0.041	0.031 (O)	<0.02 (O)	<0.02
3/14/2001	<0.02	<0.02	<0.02	0.063 (O)	<0.02 (O)	<0.02
7/16/2001	<0.02	<0.02	0.059	0.08 (O)	<0.02 (O)	<0.02
11/1/2001	<0.02	<0.02	<0.02	0.16 (O)	<0.02 (O)	<0.02
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02 (O)	<0.02
11/20/2002		0.016	0.061	0.14 (O)	0.028 (O)	<0.02
6/6/2003	0.69 (O)	0.032	0.041	0.51 (O)	0.032 (O)	0.011
12/12/2003	0.12	0.019	0.012	<0.02	<0.01 (O)	<0.02
5/26/2004	0.013	<0.02	0.016	0.036 (O)	<0.01 (O)	<0.02
12/7/2004	<0.02	<0.02	<0.02	0.069 (O)	0.012 (O)	<0.02
6/21/2005	<0.02	<0.02	<0.02	0.076 (O)	<0.01 (O)	<0.02
12/12/2005	0.014	0.01	0.017	<0.02	<0.01 (O)	<0.02
4/4/2006		<0.02				
6/27/2006	0.01	0.0043	0.11	0.01	0.0071	<0.02
8/30/2006		0.017				
12/4/2006	0.0065	0.0053	0.086	0.0035	0.0096	<0.02
2/15/2007		0.0045				
6/23/2007	0.0049	0.0043	0.076	0.0032	0.094 (O)	<0.02
9/11/2007		0.004				
12/11/2007	0.0043	0.0048	0.087	0.0079	0.042 (O)	<0.02
3/11/2008		0.0043				
6/23/2008	0.0025	0.0037				
6/24/2008			0.062	<0.02	0.098 (O)	<0.02
11/3/2008		0.0032				
12/4/2008	0.0025	0.0029				
12/5/2008			0.014	<0.02	0.047 (O)	<0.02
3/25/2009		0.0055				
7/7/2009	<0.02	0.0028	0.052	<0.02	0.024 (O)	<0.02
9/14/2009		0.0027				
12/20/2009	0.0031	0.0029				<0.02
12/21/2009			0.046	<0.02	0.049 (O)	
3/4/2010		0.0042				
6/20/2010	<0.02	0.0027		<0.02	0.045 (O)	<0.02
6/21/2010			0.045			
9/14/2010		<0.02				
1/6/2011				<0.02		<0.02
1/7/2011	<0.02	0.0032	0.024		0.0044	
4/15/2011		<0.02				
7/7/2011	0.0031	0.005		0.0027	0.003	0.0025
7/8/2011			0.023			
9/25/2011		0.0041				
1/17/2012	0.004	0.0043		0.0039		<0.02
1/18/2012			0.011		0.0048	
4/4/2012		<0.02				
7/9/2012	0.0096			<0.02		<0.02
7/10/2012		0.0028	0.024		<0.02	
10/9/2012		0.0033				
1/17/2013				<0.02		<0.02
1/18/2013	0.051	0.0038	0.011		0.0028	
4/5/2013		0.0026				

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0032		<0.02
7/17/2013	0.042	<0.02	0.0029		<0.02	
10/11/2013		0.0046				
1/13/2014	0.0025			0.0025		0.0025
1/14/2014		0.0025	0.0025		0.0025	
4/3/2014		0.0029				
7/9/2014	0.064	0.002 (J)	0.0051	0.00076 (J)	0.00093 (J)	<0.02
10/24/2014		0.0031				
1/12/2015			0.0023 (J)			
1/13/2015	0.066			0.0036		0.0025
1/14/2015		0.003			0.0023 (J)	
5/10/2015		0.0028				
7/16/2015	0.036		0.0021 (J)	<0.02		<0.02
7/17/2015		0.0018 (J)			<0.02	
10/6/2015		0.0018 (J)				
1/17/2016						<0.02
1/18/2016	0.035	0.0028	0.0092	<0.02	0.0029	
4/26/2016		<0.02				
7/27/2016	0.0529			0.0015 (J)		<0.02
7/28/2016		0.0018 (J)			<0.02	
7/29/2016			0.003 (J)			
10/24/2016		0.0024 (J)				
10/25/2016	0.0035 (J)					
1/3/2017		0.0035 (J)		<0.02		
1/4/2017						<0.02
1/5/2017					<0.02	
1/6/2017	0.0235		0.0104			
4/3/2017		0.0041 (J)				
4/4/2017			0.0132			<0.02
4/6/2017	0.0829			0.0023 (J)	0.0032 (J)	
7/11/2017		0.0029 (J)				
7/12/2017			0.0046 (J)	<0.02	0.002 (J)	<0.02
7/13/2017	0.0853					
10/2/2017		0.0026 (J)				
10/4/2017	0.0263					
1/9/2018	0.0665	0.0035 (J)			0.0036 (J)	
1/10/2018				0.0022 (J)		0.0014 (J)
1/11/2018			0.0095 (J)			
7/9/2018		0.0022 (J)				
7/10/2018				<0.02	0.0055 (J)	0.0021 (J)
7/11/2018	0.02 (J)		0.0028 (J)			
1/16/2019	0.014 (J)	0.0037 (J)	0.0052 (J)	<0.02	<0.02	<0.02
3/25/2019	<0.05 (O)	<0.02	0.0078 (J)			
3/26/2019				<0.02	<0.02	<0.02
10/7/2019		0.0077 (J)				
10/8/2019	0.095					
10/9/2019			0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)
4/6/2020	<0.02	<0.02				
4/7/2020			<0.02	<0.02	<0.02	<0.02
9/28/2020	0.16	0.0092 (J)				0.0092 (J)
9/30/2020				<0.02	<0.02	
10/1/2020			0.0064 (J)			

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			<0.02	<0.02	<0.02	<0.02
3/11/2021	0.054					
3/12/2021		0.0028 (J)				
9/21/2021	<0.02	<0.02	<0.02	<0.02	<0.02	
9/23/2021						<0.02
1/31/2022	<0.02	<0.02				
2/2/2022			<0.02		<0.02	
2/3/2022				<0.02		<0.02
8/30/2022	0.011 (J)	<0.02	<0.02	<0.02	0.0132 (J)	
9/1/2022						0.00578 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.02	0.38 (O)	<0.02	<0.02	<0.02	<0.02
11/21/2000	<0.02	0.077 (O)	<0.02	<0.02	<0.02	<0.02
1/20/2001	<0.02	0.23 (O)	<0.02	<0.02	<0.02	<0.02
3/14/2001	<0.02	0.24 (O)	<0.02	<0.02	<0.02	<0.02
7/16/2001	<0.02	0.053 (O)	<0.02	<0.02	<0.02	<0.02
11/1/2001	<0.02	0.022 (O)	0.044 (O)	<0.02	<0.02	<0.02
4/25/2002	<0.02	1.2 (O)	<0.02	<0.02	<0.02	<0.02
11/20/2002	<0.02	0.045 (O)	0.023	<0.02	<0.02	<0.02
6/6/2003	<0.02	0.042 (O)	<0.02	<0.02	<0.02	0.035 (O)
12/12/2003	0.013	<0.02	<0.02	<0.02	<0.02	<0.02
5/26/2004	<0.02	<0.02	0.035	<0.02	<0.02	<0.02
12/7/2004	0.028 (O)	<0.02	0.018	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.02	0.014	<0.02	<0.02	<0.02
12/12/2005	<0.02	<0.02	0.023	0.011	0.064 (O)	<0.02
4/4/2006				<0.02		<0.02
6/27/2006	0.0028	0.012 (O)	0.023	0.0045	0.011	0.077 (O)
8/30/2006				<0.02		0.0027
12/4/2006	0.0028	0.0067	0.046 (O)	<0.02	0.0033	<0.02
2/15/2007				<0.02		0.0032
6/23/2007	0.0063	0.025 (O)	0.036	<0.02	0.0029	0.0058
9/11/2007				<0.02		0.0033
12/11/2007	<0.02	0.0038	0.011	<0.02	<0.02	<0.02
3/11/2008				<0.02		<0.02
6/23/2008	<0.02	0.0051	0.0091			
6/24/2008				<0.02	<0.02	<0.02
11/3/2008				<0.02		0.0025
12/4/2008	<0.02	<0.02	0.0038	<0.02		
12/5/2008					<0.02	<0.02
3/25/2009				<0.02		0.0025
7/8/2009	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/14/2009				<0.02		<0.02
12/20/2009				<0.02	<0.02	<0.02
12/21/2009	<0.02	0.013 (O)	0.0032			
3/4/2010				<0.02		<0.02
6/20/2010	<0.02	<0.02	<0.02	<0.02	<0.02	
6/21/2010						<0.02
9/14/2010				<0.02		<0.02
1/6/2011	<0.02		0.004			
1/7/2011		0.004		<0.02	<0.02	<0.02
4/15/2011				<0.02		<0.02
7/7/2011	<0.02	0.0028	0.0037	<0.02	<0.02	<0.02
9/25/2011				<0.02		0.0028
1/17/2012	0.0043	0.0043	0.0031	<0.02	<0.02	
1/18/2012						0.0029
4/4/2012				<0.02		<0.02
7/9/2012	<0.02	<0.02	0.003	<0.02	<0.02	
7/10/2012						<0.02
10/9/2012				<0.02		0.0027
1/17/2013	0.0025	0.0033	<0.02			
1/18/2013				<0.02	<0.02	<0.02
4/5/2013				<0.02		<0.02
7/16/2013	<0.02	0.0028	0.0029			

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.02	<0.02	<0.02
10/11/2013				<0.02		<0.02
1/13/2014	0.0025	0.0025	0.0025		0.0025	
1/14/2014				0.0025		0.0025
4/3/2014				0.0014 (J)		0.0015 (J)
7/8/2014	0.0011 (J)	0.002 (J)	0.0018 (J)			
7/9/2014				0.00086 (J)	<0.02	0.0012 (J)
10/24/2014				0.00083 (J)		0.0013 (J)
1/13/2015	0.0021 (J)	0.0079	0.0028		<0.02	
1/14/2015				<0.02		0.0017 (J)
5/10/2015				<0.02		
5/11/2015						0.0015 (J)
7/16/2015	<0.02	0.0026	0.0018 (J)		<0.02	<0.02
7/17/2015				<0.02		
10/6/2015				<0.02		<0.02
1/17/2016				<0.02	<0.02	<0.02
1/18/2016		0.0025	0.0017 (J)			
1/19/2016	0.0029					
4/26/2016				<0.02		<0.02
7/26/2016	<0.02		0.0028 (J)			
7/27/2016		0.0021 (J)		<0.02	<0.02	
7/28/2016						<0.02
10/25/2016				<0.02	<0.02	<0.02
1/4/2017	<0.02	0.0025 (J)				0.0025 (J)
1/5/2017			0.0021 (J)	<0.02	<0.02	
4/3/2017				<0.02	<0.02	
4/4/2017				<0.02		
4/5/2017		0.0026 (J)				0.0025 (J)
4/6/2017	0.004 (J)		0.0027 (J)			
7/10/2017		0.0023 (J)				
7/11/2017	<0.02			<0.02	<0.02	
7/12/2017			0.0043 (J)			0.002 (J)
10/2/2017				0.0026 (J)	<0.02	
10/3/2017						<0.02
1/9/2018				0.0018 (J)	<0.02	
1/10/2018			0.0021 (J)			0.0016 (J)
1/11/2018	0.0018 (J)	0.0031 (J)				
7/9/2018				<0.02		
7/10/2018					<0.02	0.0031 (J)
7/11/2018	<0.02	0.0036 (J)	0.0039 (J)			
1/16/2019			0.047	<0.02		
1/17/2019	<0.02	0.0032 (J)			<0.02	<0.02
3/26/2019			0.03	<0.02	<0.02	<0.02
3/27/2019	<0.02	0.0031 (J)				
10/8/2019	0.0061 (J)		0.053	0.0052 (J)	0.0051 (J)	0.01
10/9/2019		0.0057 (J)				
4/7/2020	<0.02	<0.02		<0.02	<0.02	<0.02
4/8/2020			0.023			
9/28/2020			0.016			
9/29/2020	0.0031 (J)	0.0074 (J)		<0.02		
9/30/2020					0.032	0.0051 (J)
3/10/2021	<0.02	<0.02				

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.02	
3/15/2021			0.039			
3/16/2021				<0.02		<0.02
9/21/2021	<0.02	<0.02	0.036			
9/22/2021				0.01		<0.02
9/23/2021					<0.02	
2/1/2022						<0.02
2/2/2022				<0.02		
2/3/2022	<0.02	<0.02	0.037		<0.02	
8/30/2022		0.0262		<0.02		
8/31/2022	<0.02		0.0266		0.00395 (J)	
9/1/2022						0.0119 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.02					<0.02
11/21/2000	<0.02	0.021 (O)				<0.02
1/20/2001	<0.02	<0.02				<0.02
3/14/2001	<0.02	<0.02				<0.02
7/16/2001	<0.02	<0.02				<0.02
11/1/2001	<0.02	<0.02				<0.02
4/25/2002	<0.02	<0.02				<0.02
11/20/2002	0.014	<0.02				0.033 (O)
6/6/2003	0.012	<0.02				<0.02
12/12/2003	<0.02	<0.02				<0.02
5/26/2004	<0.02	<0.02				<0.02
12/7/2004	<0.02	<0.02				<0.02
6/21/2005	<0.02	<0.02				<0.02
12/12/2005	<0.02	0.012				0.032 (O)
6/27/2006	0.0046	<0.02				0.018 (O)
12/4/2006	0.0071	<0.02				0.0044
6/23/2007	0.005	<0.02				0.0041
12/11/2007	0.0033	<0.02				0.0039
6/23/2008						<0.02
6/24/2008	0.0037	<0.02				
12/4/2008		<0.02				0.0039
12/5/2008	0.0027					
7/8/2009	0.0048	<0.02				<0.02
12/20/2009		<0.02				
12/21/2009	0.0032					0.004
6/20/2010		<0.02				<0.02
6/21/2010	0.0028		<0.02	0.04 (O)	<0.02	
1/6/2011		<0.02				
1/7/2011	0.003		<0.02	<0.02	0.019	0.0032
7/7/2011			<0.02			
7/8/2011	0.0034		0.086 (JO)	0.0044	0.1 (O)	0.0025
1/17/2012		<0.02				
1/18/2012	0.0049		<0.02	<0.02	0.0051	0.0045
7/9/2012		<0.02				
7/10/2012	0.0039		<0.02	<0.02	0.01	<0.02
1/17/2013		<0.02				
1/18/2013	0.0043		0.0032	<0.02	0.0036	0.0029
7/17/2013	0.0035	<0.02	<0.02	<0.02	0.0025	<0.02
1/13/2014		0.0025				
1/14/2014	0.0025		0.0025	0.0025	0.0025	0.0025
7/9/2014	0.0033	0.00058 (J)		0.00084 (J)		0.0016 (J)
7/10/2014			<0.02		0.024	
1/12/2015			<0.02			
1/13/2015		0.0024 (J)				
1/14/2015	0.0067			0.0018 (J)	0.0016 (J)	0.0024 (J)
7/16/2015		<0.02				
7/17/2015				<0.02		0.0031
7/18/2015	<0.02		<0.02		0.014	
1/17/2016		<0.02	<0.02	<0.02		
1/18/2016	0.012				<0.02	0.0059
7/27/2016		0.0018 (J)				
7/28/2016			<0.02	<0.02		0.0019 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0086 (J)				0.0129	
10/25/2016			<0.02			
1/4/2017			<0.02	<0.02	0.006 (J)	
1/5/2017	0.016	<0.02				
1/6/2017						0.0026 (J)
4/4/2017		0.0015 (J)	<0.02	0.0015 (J)		
4/5/2017	0.0175					
4/6/2017					0.0031 (J)	0.0047 (J)
7/11/2017			<0.02		0.0029 (J)	
7/12/2017						0.003 (J)
7/13/2017	0.0126	0.0014 (J)		0.002 (J)		
10/2/2017			<0.02			
1/9/2018				0.0016 (J)		
1/10/2018		<0.02	0.0034 (J)			
1/11/2018	0.012				0.0106	0.0046 (J)
7/9/2018			<0.02			
7/10/2018		<0.02		<0.02		
7/11/2018	0.011				0.0057 (J)	0.0033 (J)
1/16/2019	0.0094 (J)					
1/17/2019				<0.02		
1/18/2019					0.0024 (J)	0.0025 (J)
1/21/2019		<0.02	<0.02			
3/25/2019			<0.02			
3/26/2019	0.0057 (J)			<0.02		
3/27/2019					<0.02	0.0026 (J)
7/30/2019		0.0067 (J)				
10/8/2019				0.0071 (J)		
10/9/2019	0.011	0.005 (J)	0.0049 (J)		0.0079 (J)	0.0054 (J)
4/7/2020				<0.02	<0.02	
4/8/2020	<0.02	<0.02	<0.02			<0.02
9/29/2020		0.056				
9/30/2020	0.0043 (J)		0.031	0.0096 (J)	<0.02	
10/1/2020						0.025
3/10/2021					<0.02	<0.02
3/11/2021	0.0056 (J)					
3/12/2021			<0.02			
3/15/2021		<0.02				
3/16/2021				<0.02		
9/21/2021					<0.02	
9/22/2021	<0.02	<0.02	<0.02	<0.02		<0.02
2/1/2022	0.011		<0.02	<0.02		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.0171 (J)	0.00814 (J)		
8/31/2022	0.0068 (J)				<0.02	
9/1/2022		0.0125 (J)				0.0163 (J)

Time Series

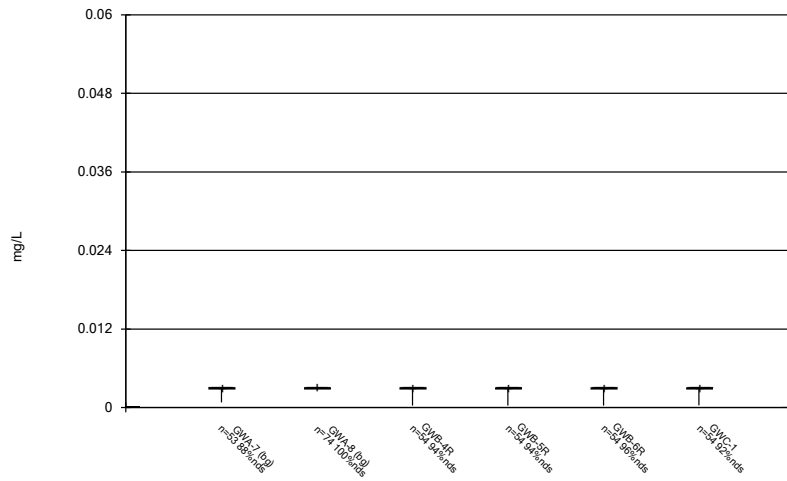
Constituent: Zinc (mg/L) Analysis Run 11/6/2022 9:48 AM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	0.0067 (J)	0.0025 (J)	0.0054 (J)
9/22/2021	<0.02	<0.02	
9/23/2021			<0.02
2/1/2022		<0.02	
2/3/2022	<0.02		0.051
8/31/2022	0.0106 (J)		0.0161 (J)
9/1/2022		0.0102 (J)	

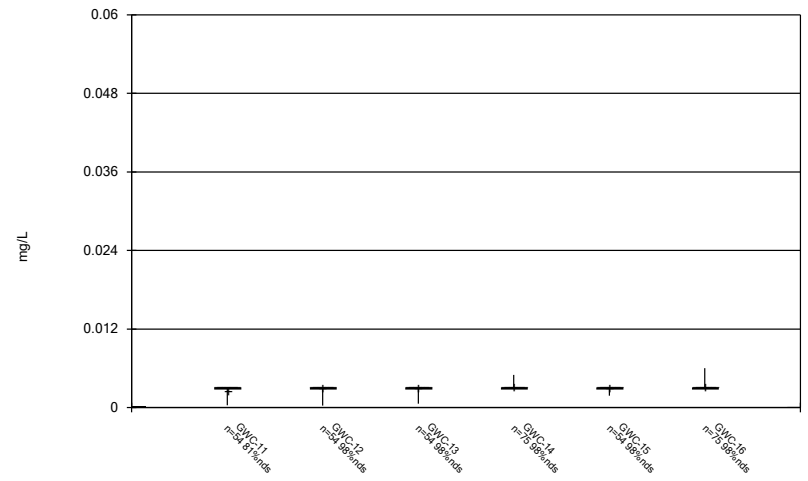
FIGURE B.

Box & Whiskers Plot



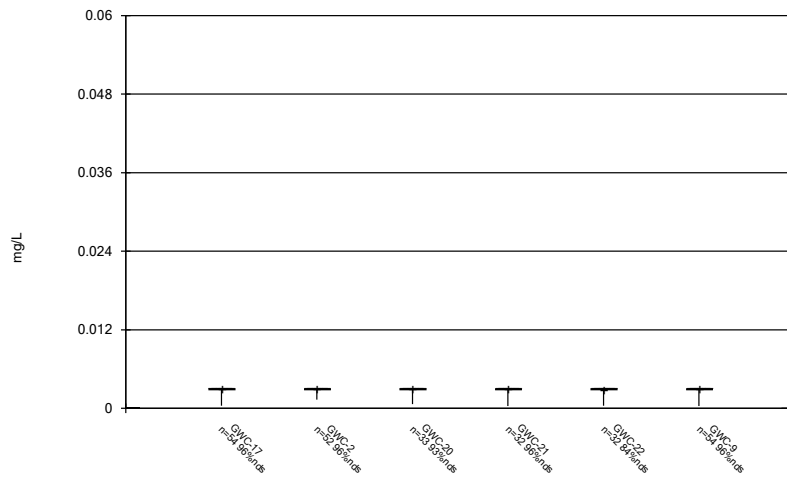
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



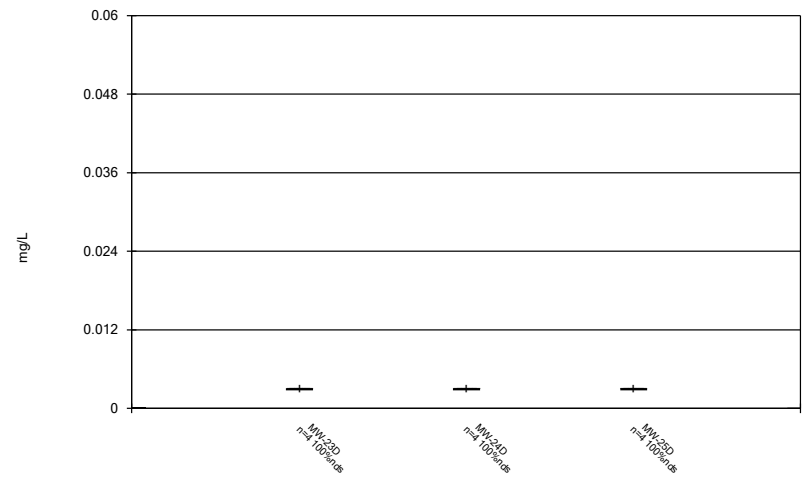
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



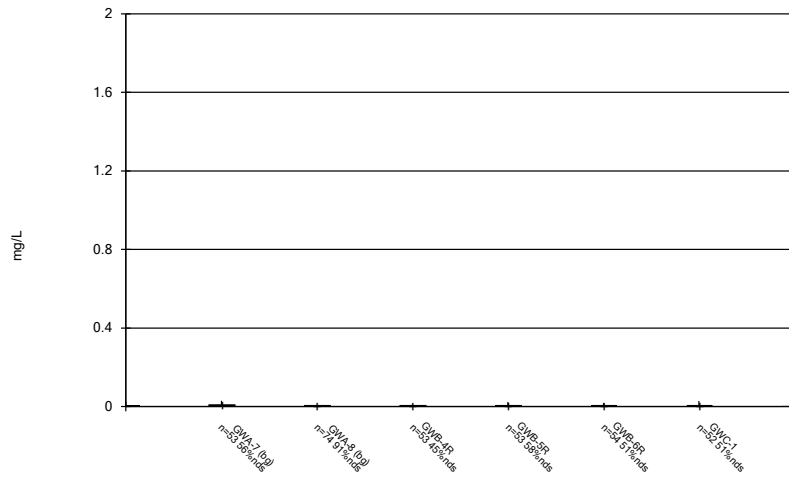
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



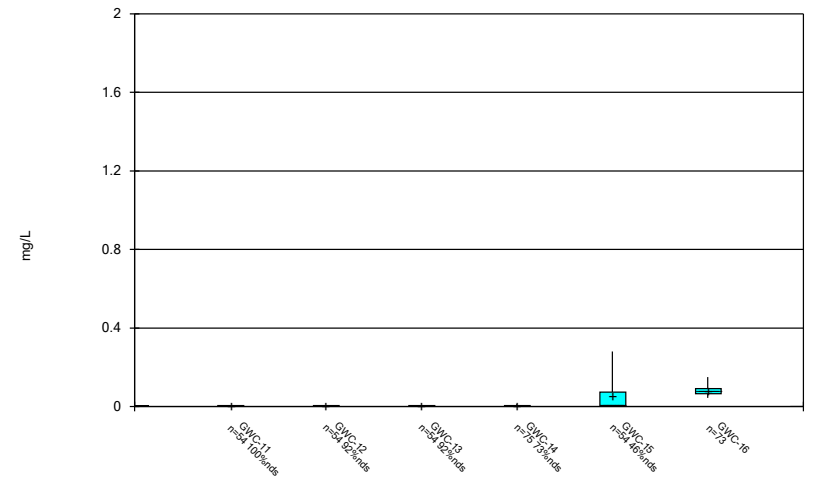
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



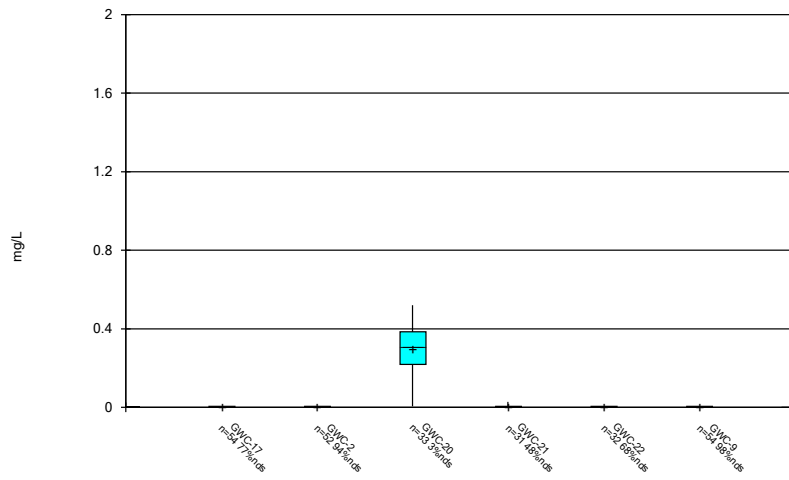
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



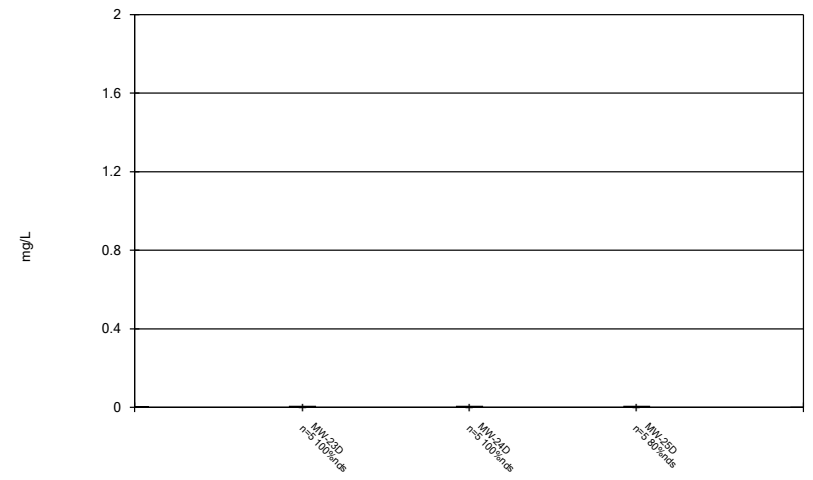
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



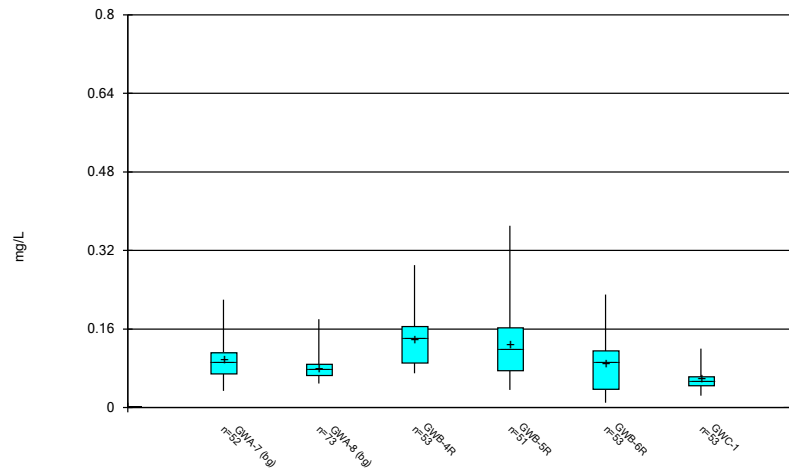
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Box & Whiskers Plot



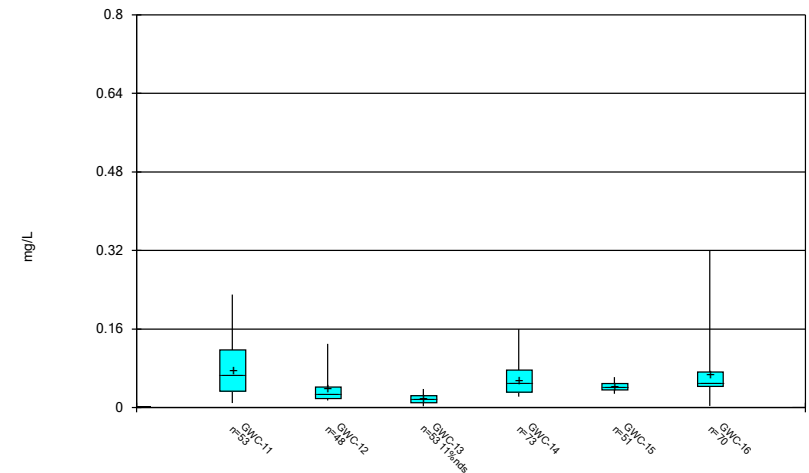
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Box & Whiskers Plot



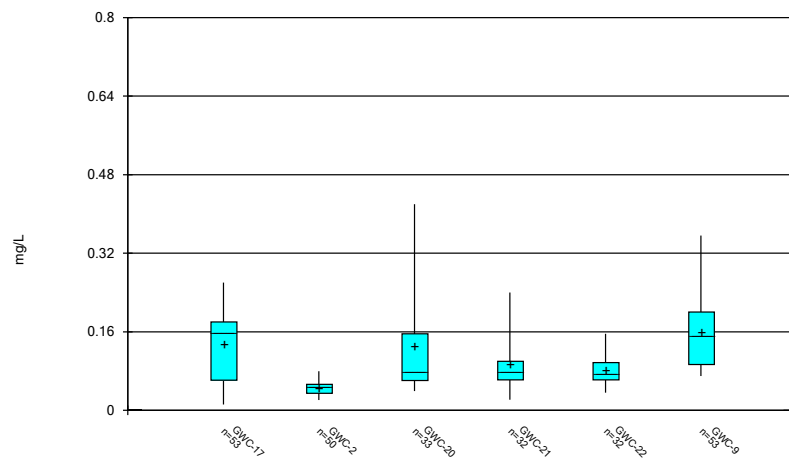
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Box & Whiskers Plot



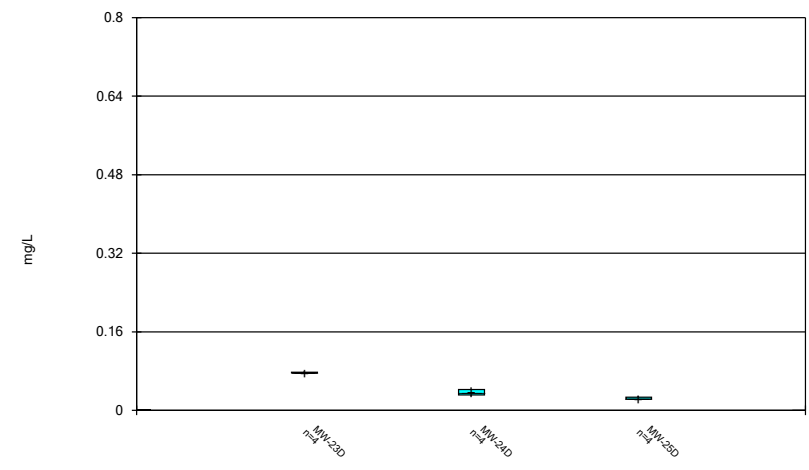
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



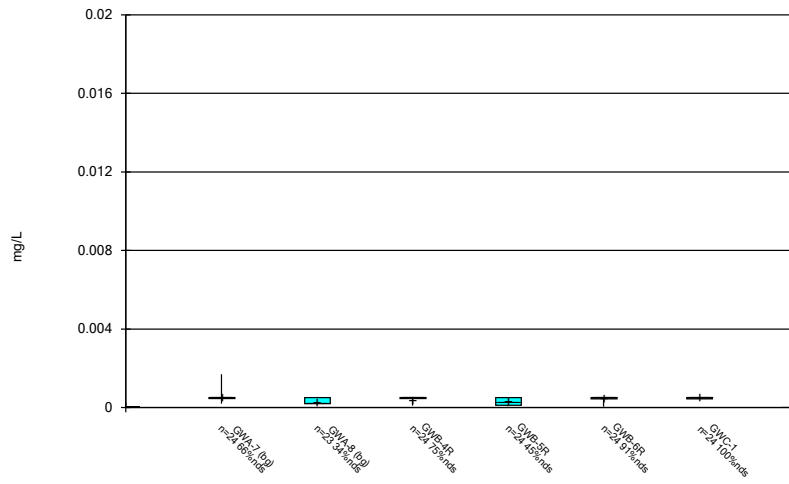
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



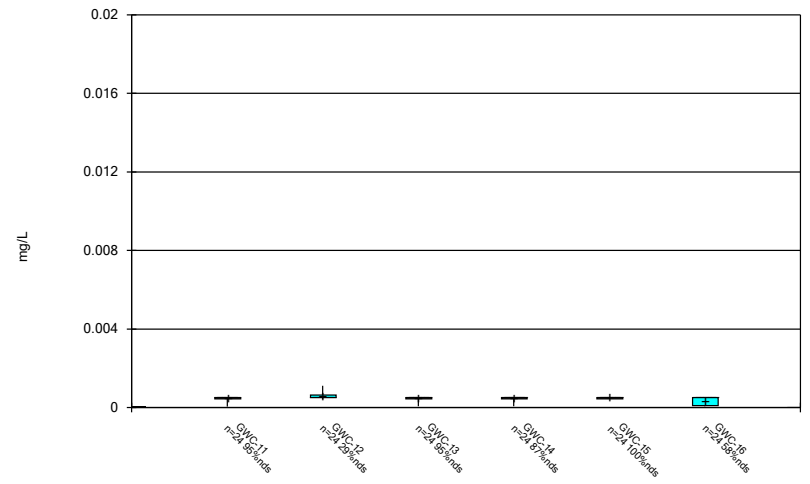
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



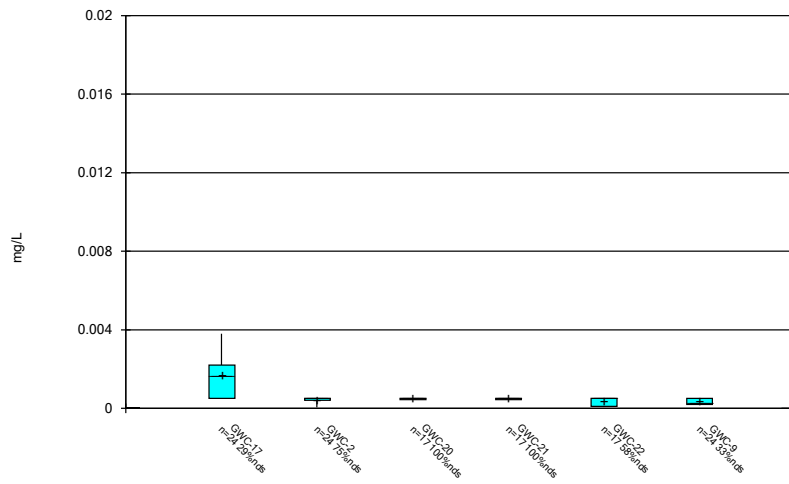
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



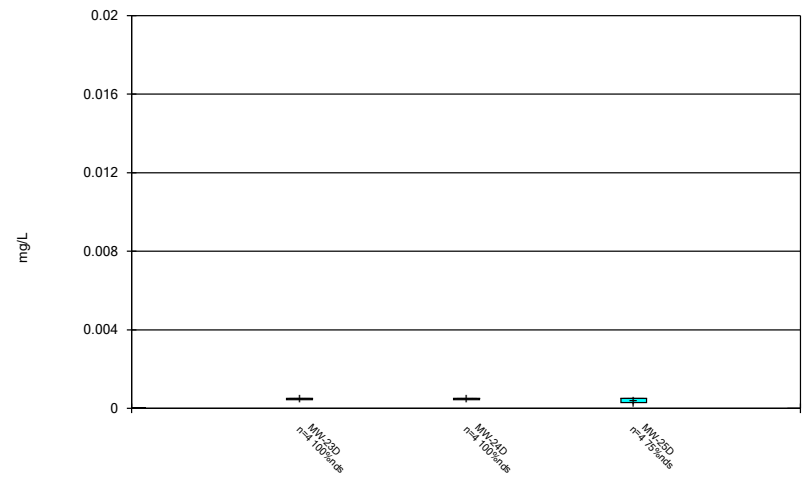
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



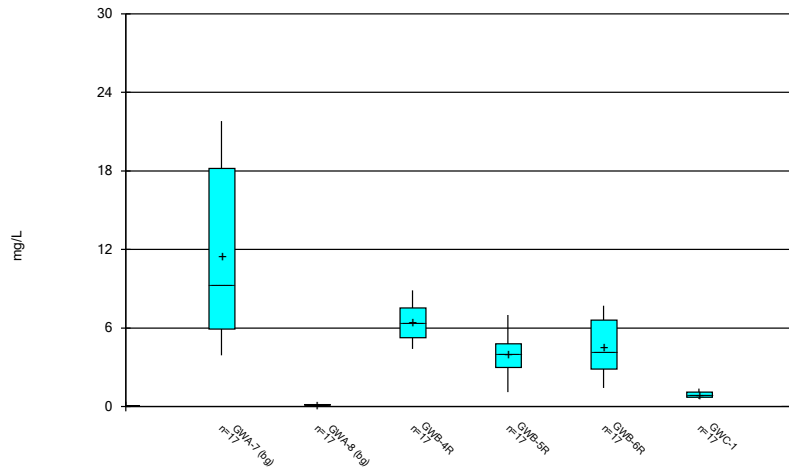
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



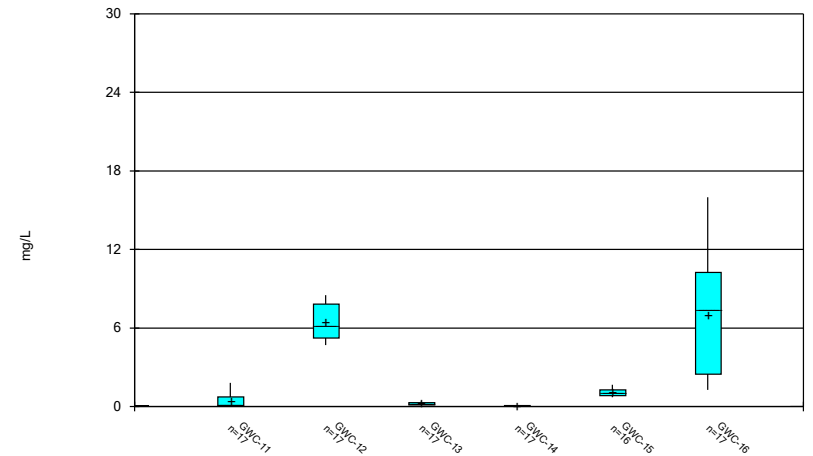
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



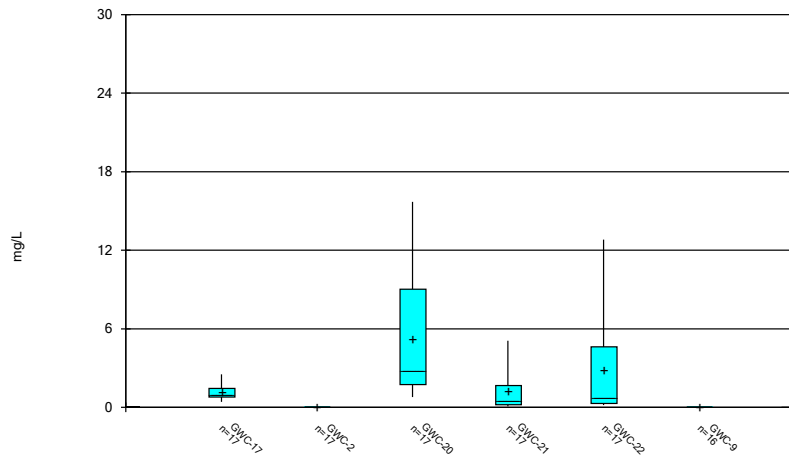
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Box & Whiskers Plot



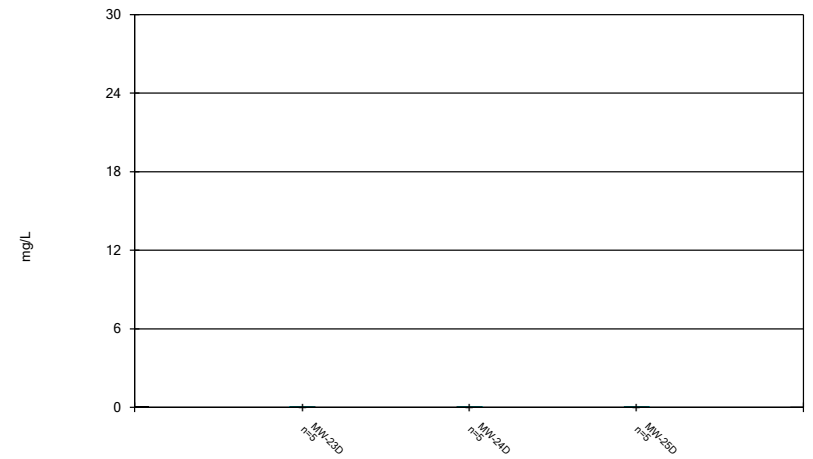
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Box & Whiskers Plot



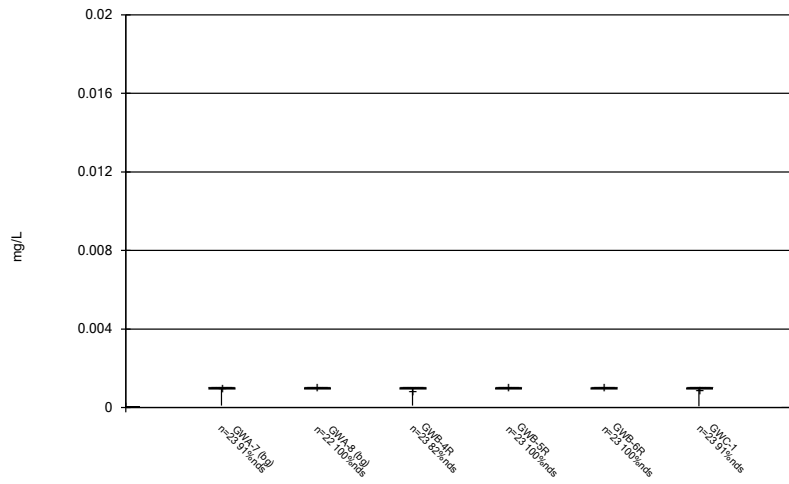
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Box & Whiskers Plot



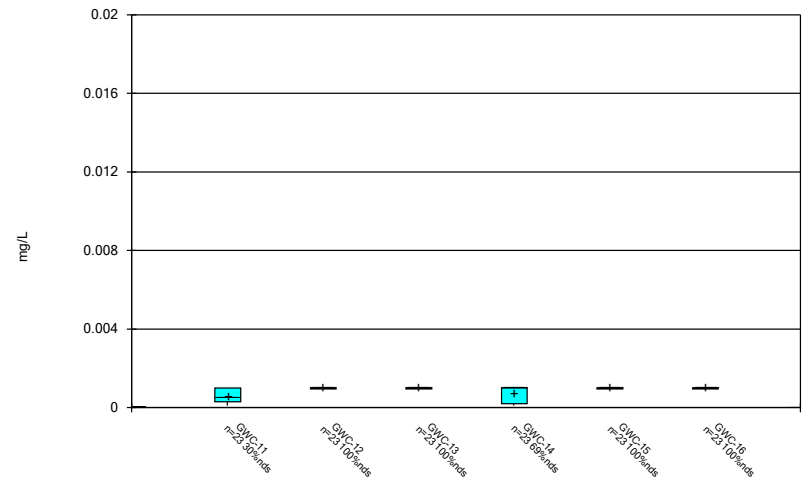
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



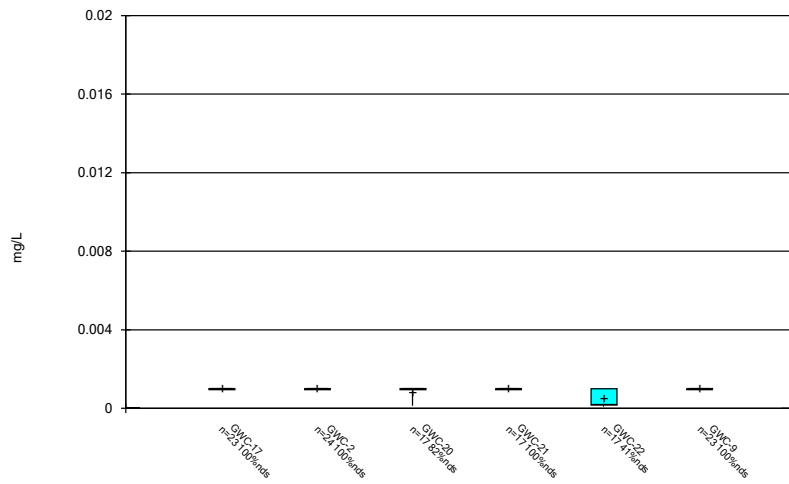
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



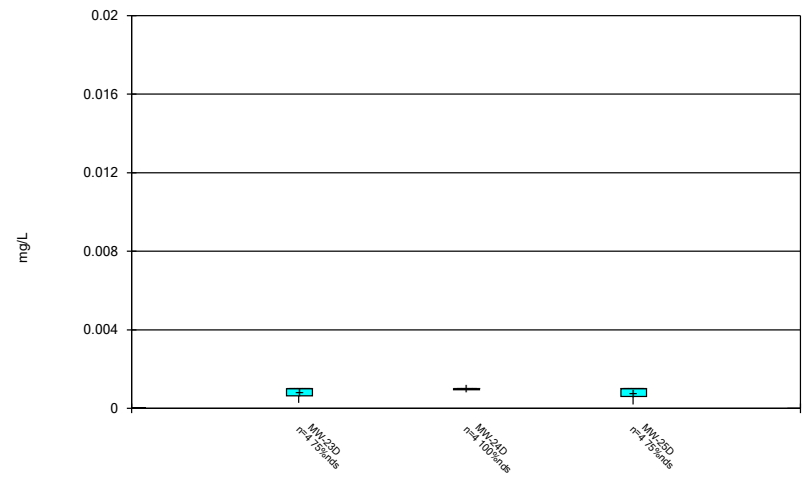
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Box & Whiskers Plot



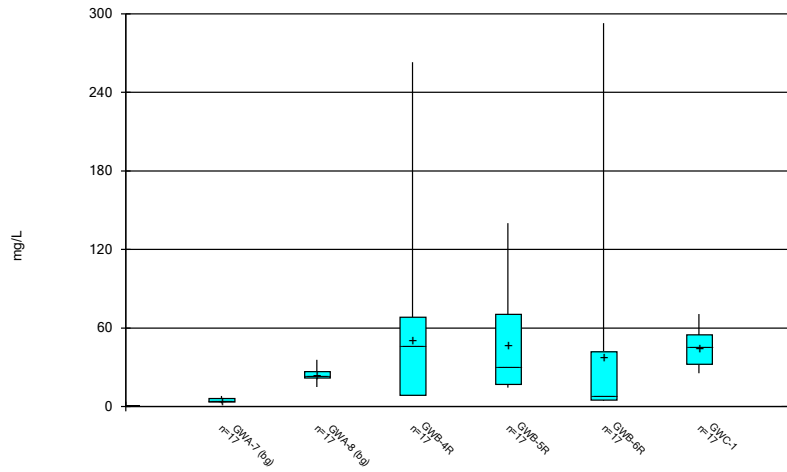
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Box & Whiskers Plot



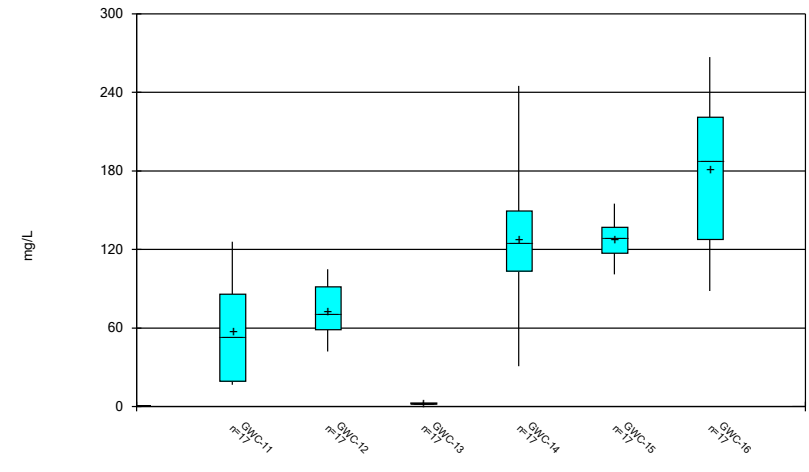
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Box & Whiskers Plot



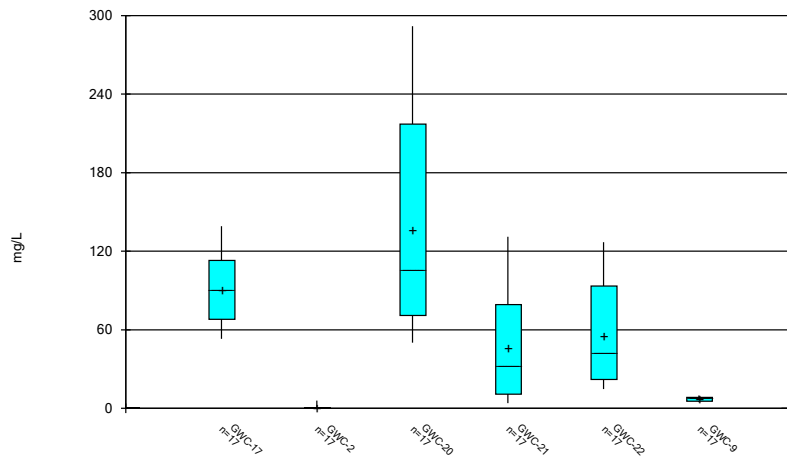
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Box & Whiskers Plot



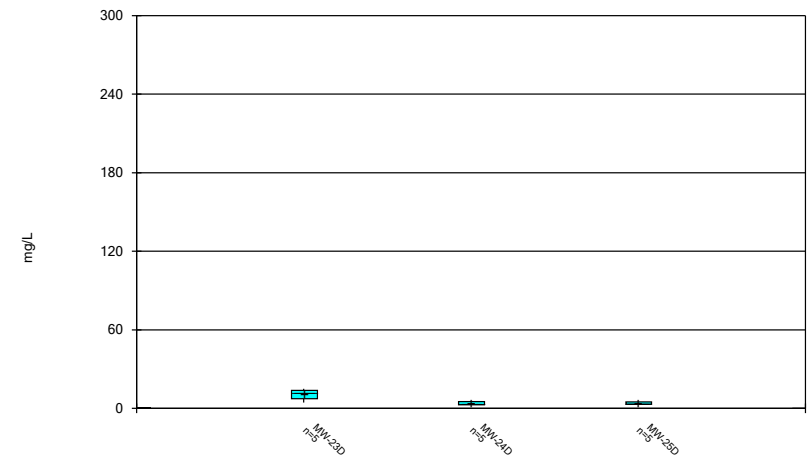
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Box & Whiskers Plot



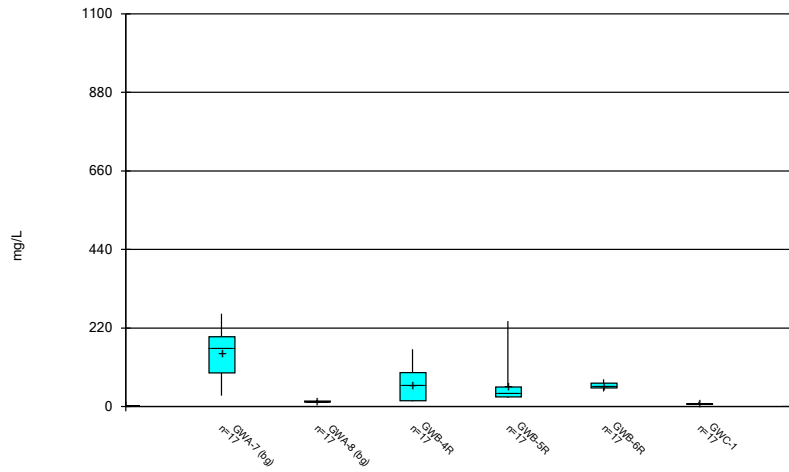
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Box & Whiskers Plot



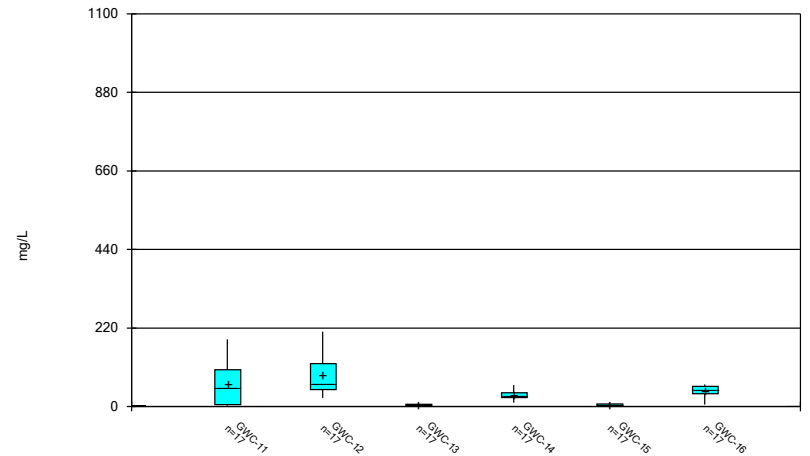
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Box & Whiskers Plot



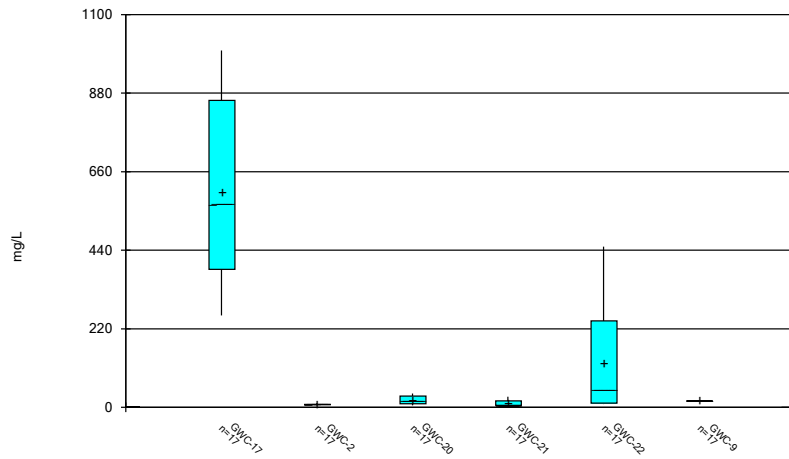
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Box & Whiskers Plot



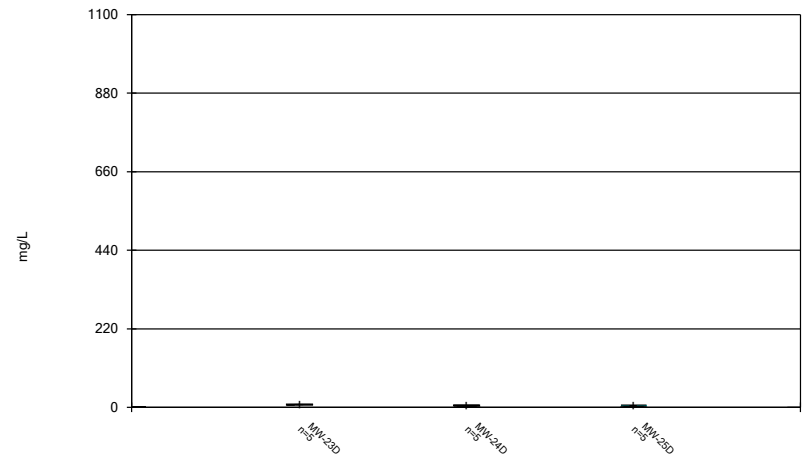
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



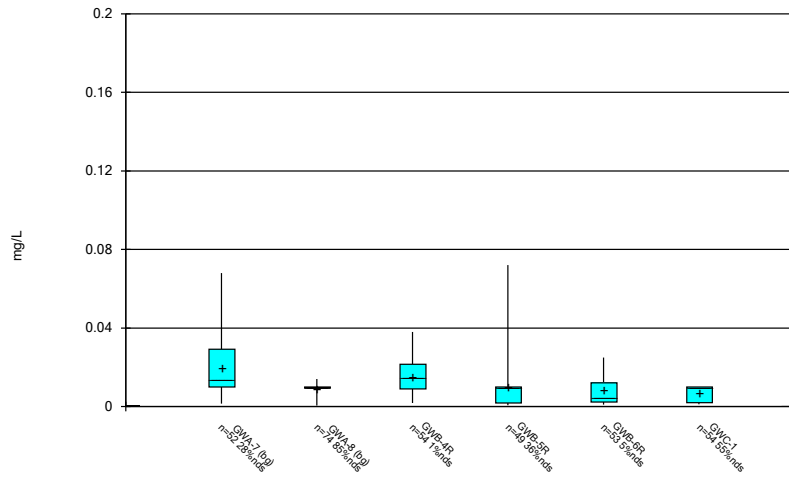
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Box & Whiskers Plot



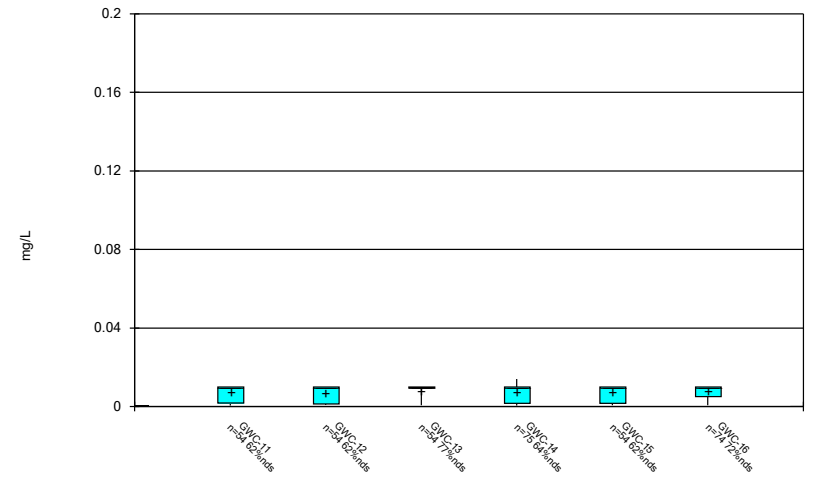
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Box & Whiskers Plot



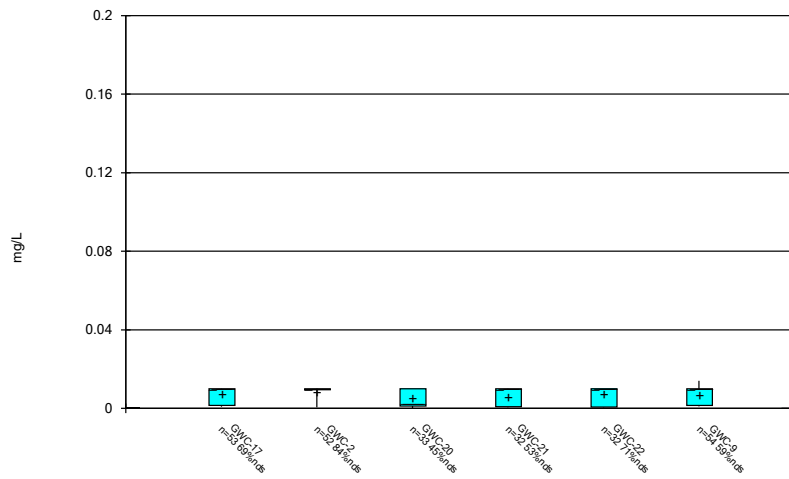
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Box & Whiskers Plot



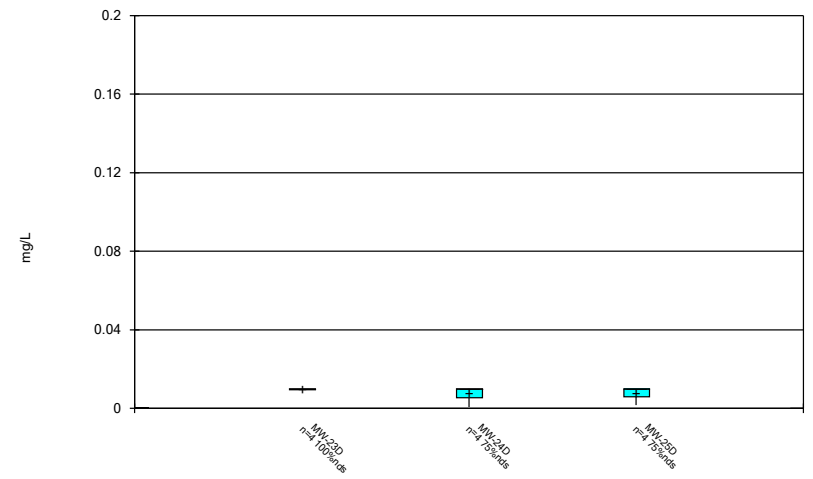
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



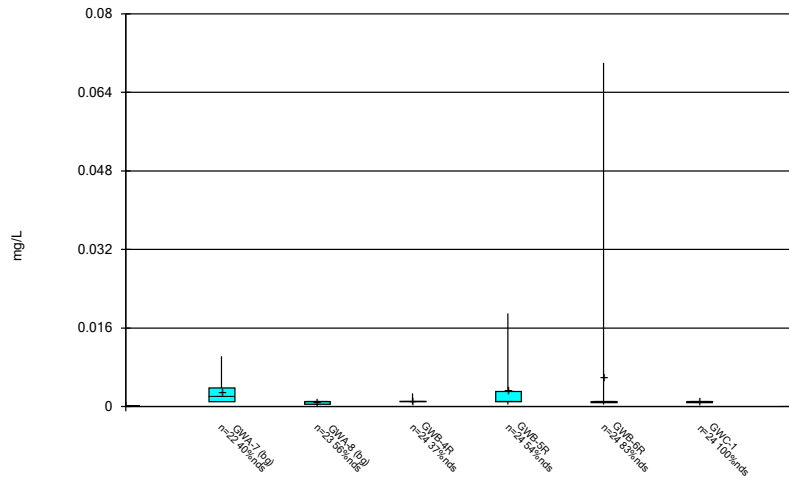
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Box & Whiskers Plot



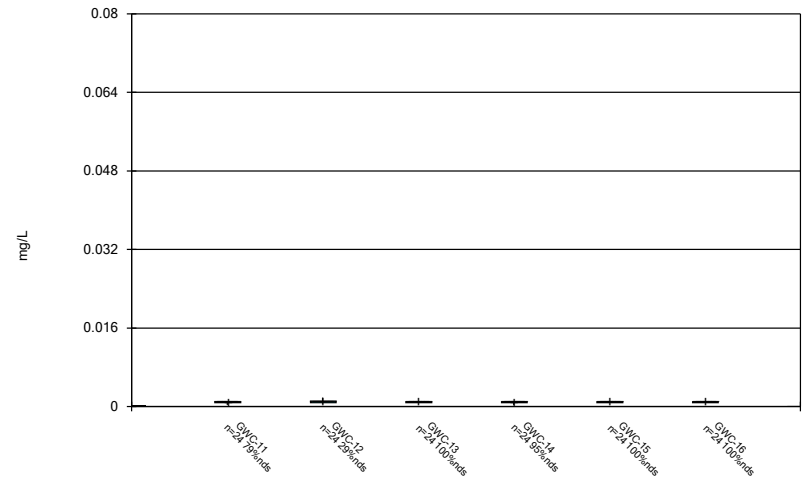
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Box & Whiskers Plot



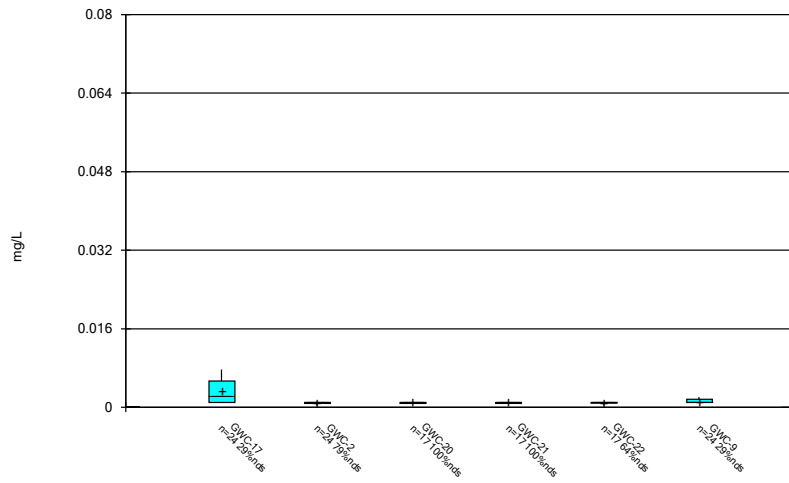
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Box & Whiskers Plot



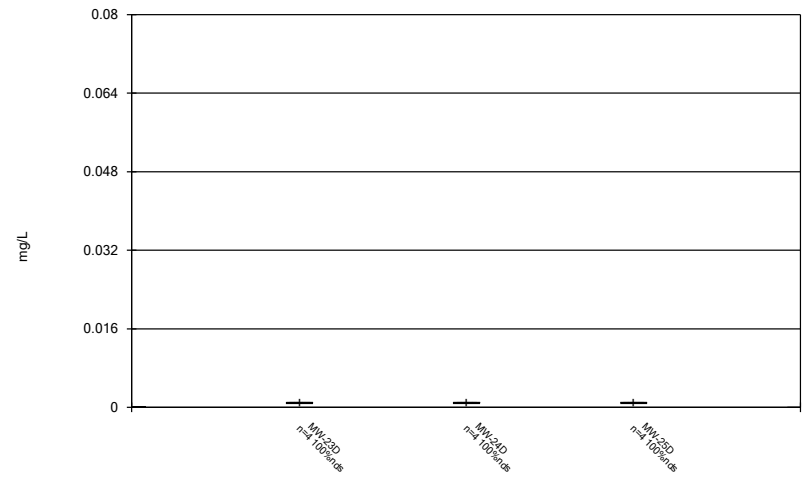
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Box & Whiskers Plot



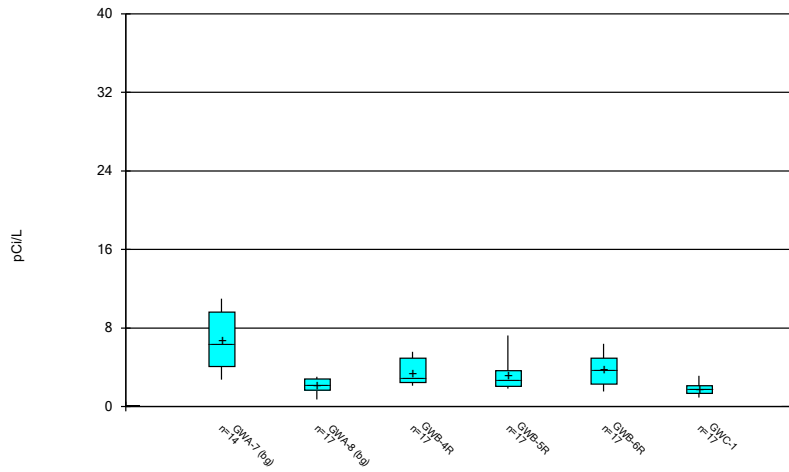
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Box & Whiskers Plot



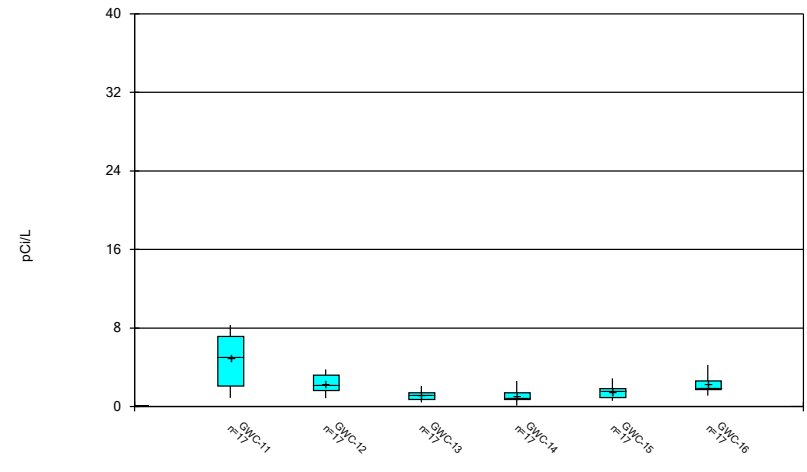
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Box & Whiskers Plot



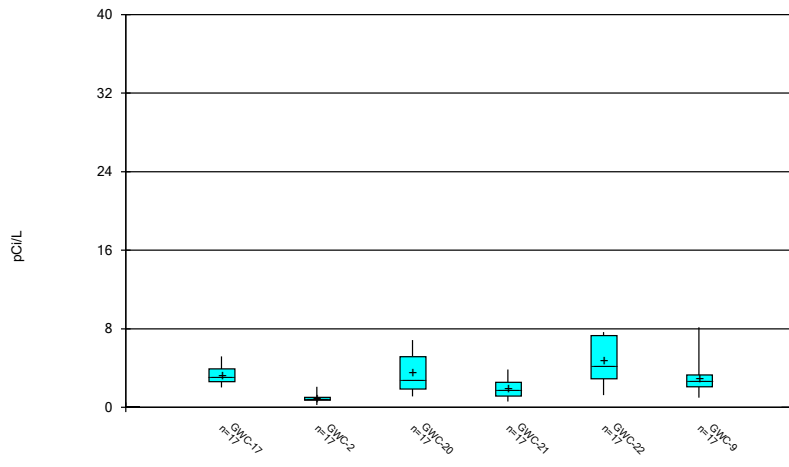
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



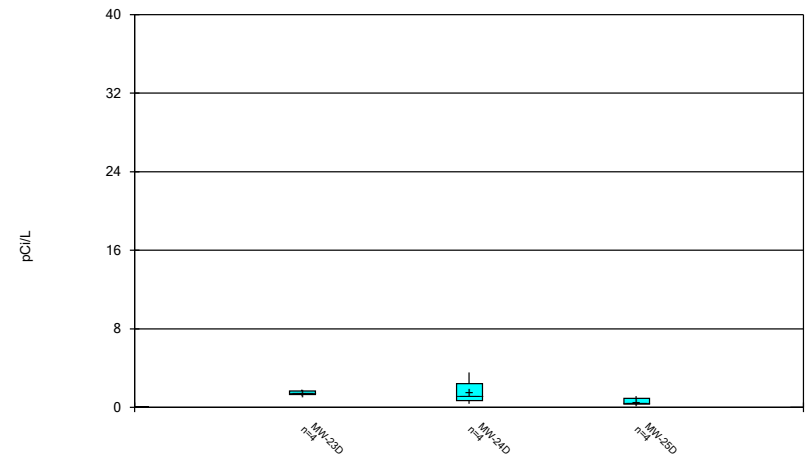
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



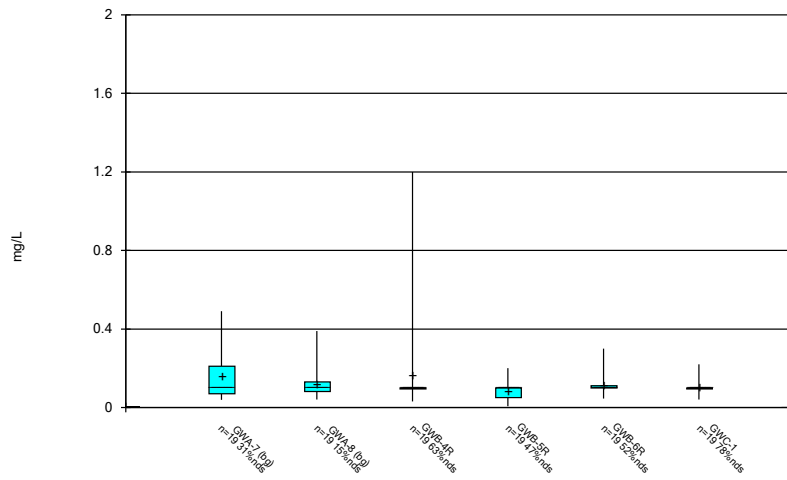
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



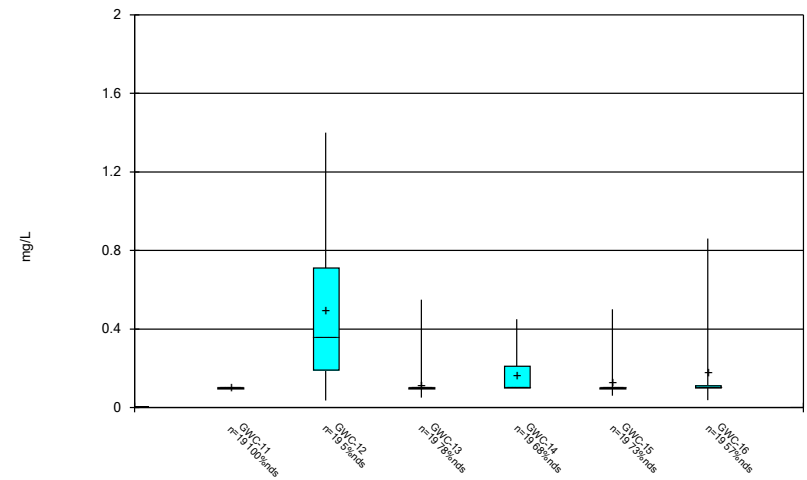
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



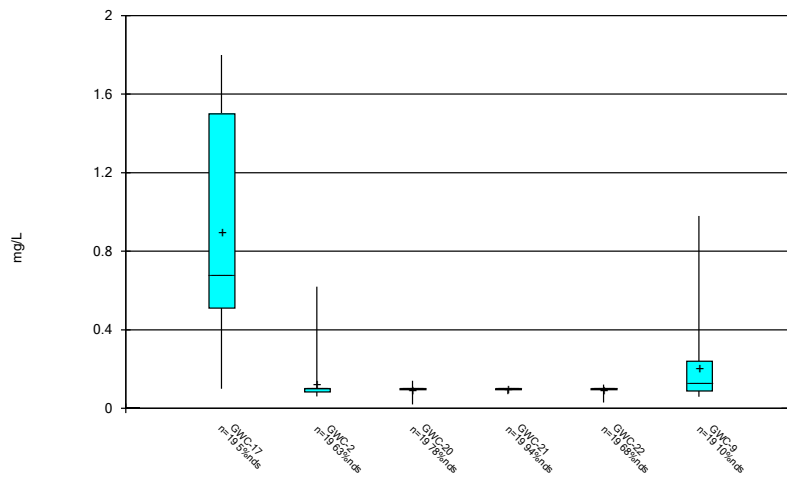
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



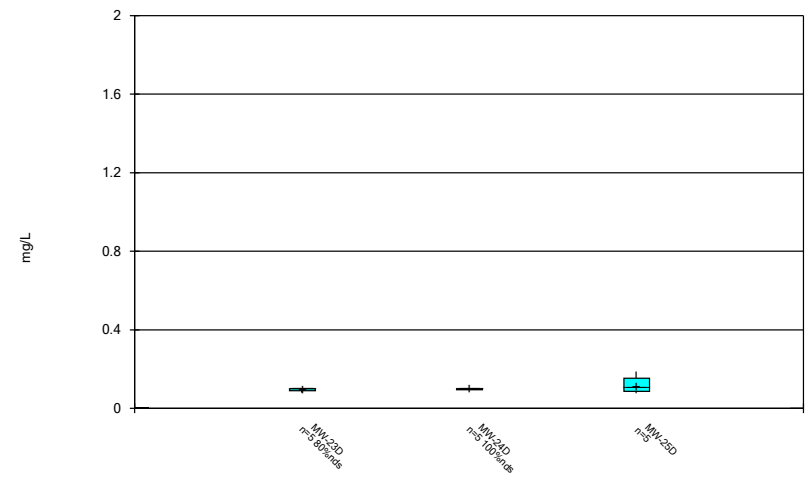
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



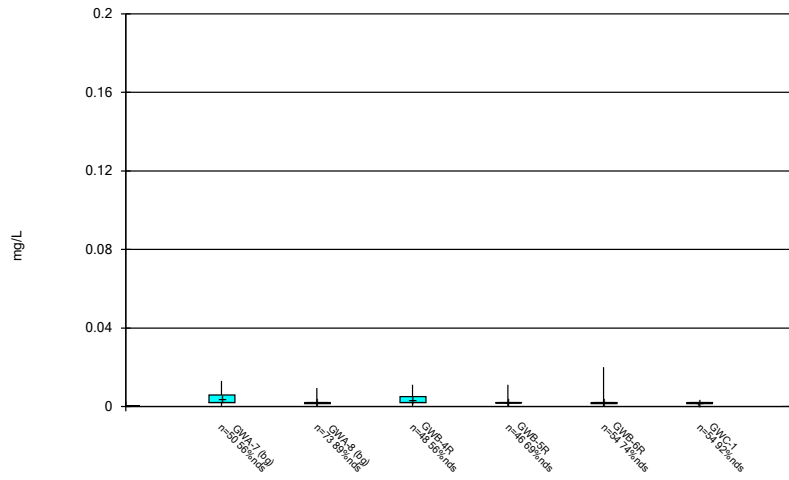
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



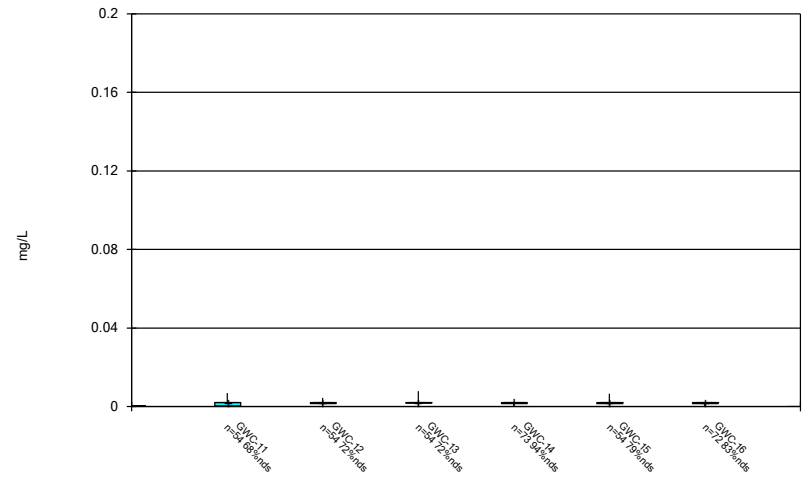
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Box & Whiskers Plot



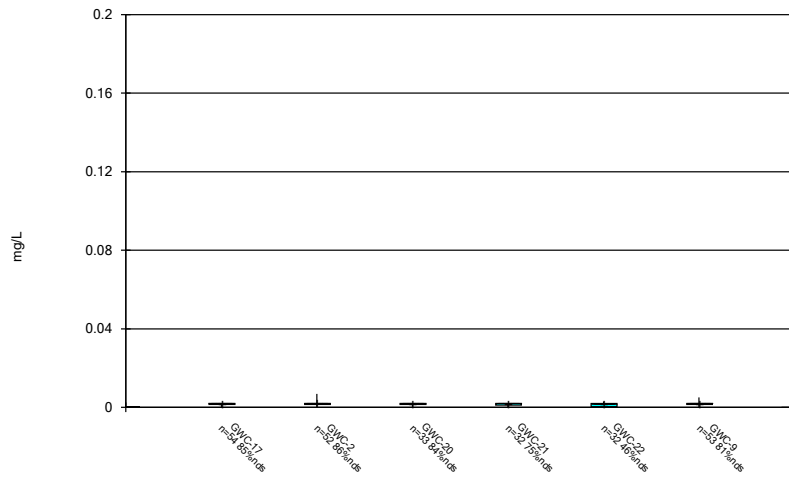
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



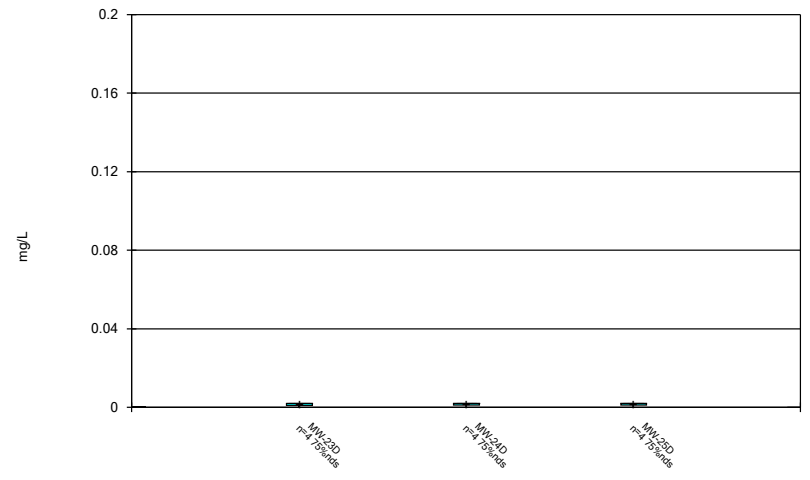
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



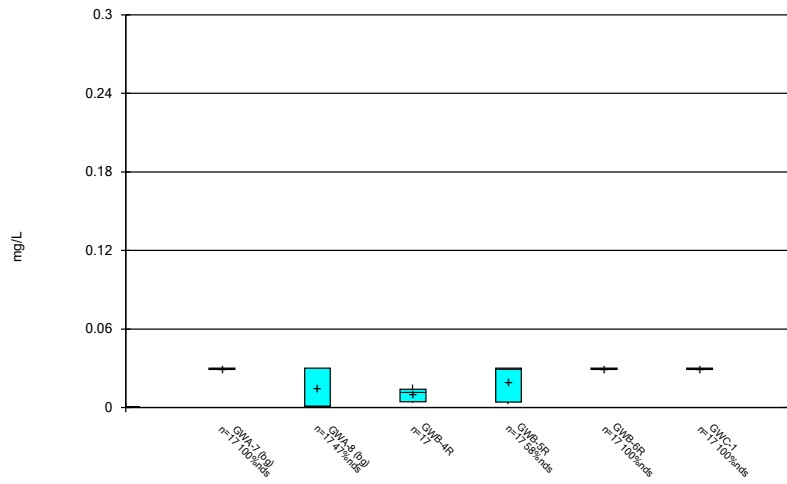
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



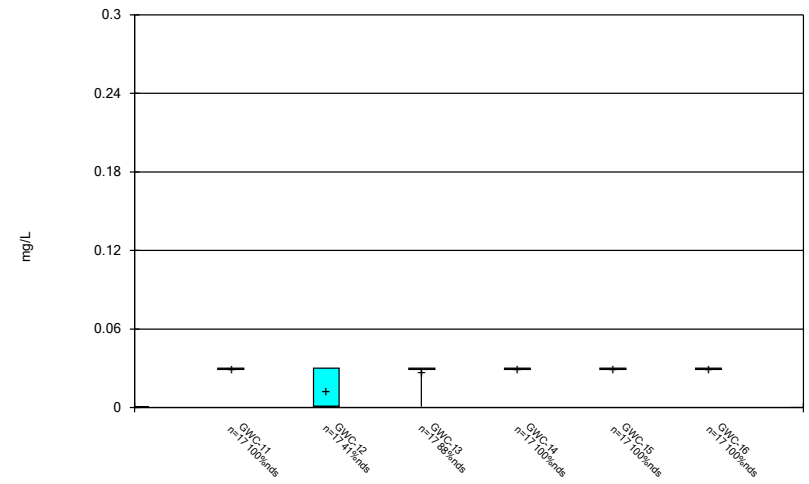
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



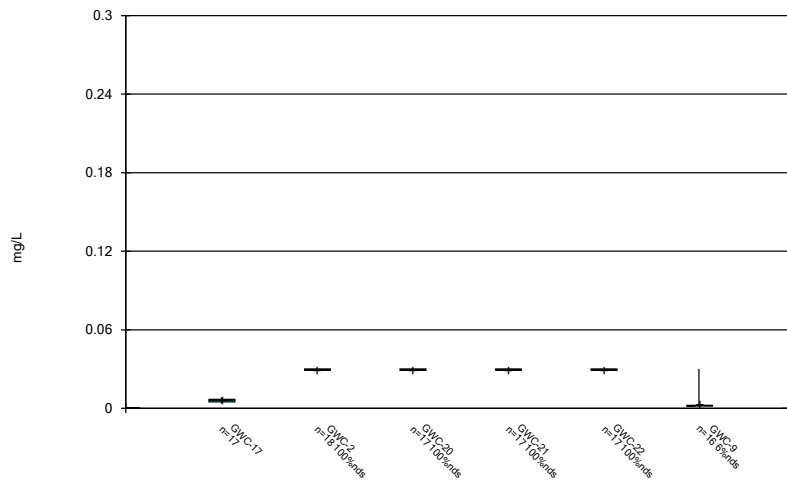
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



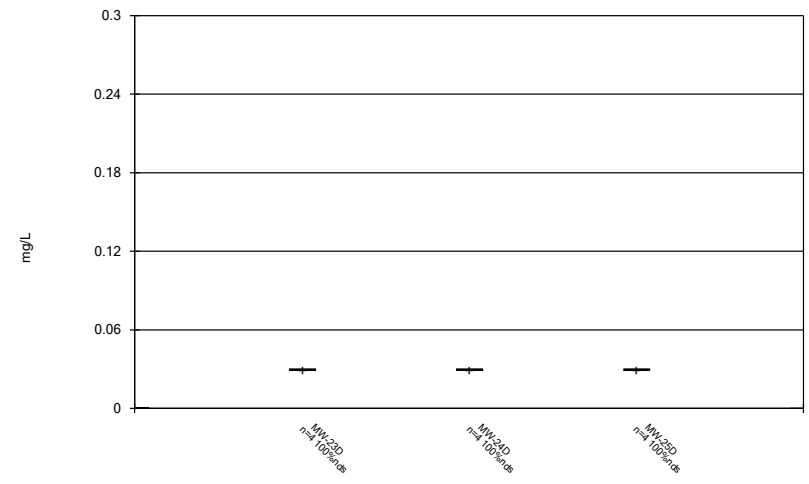
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



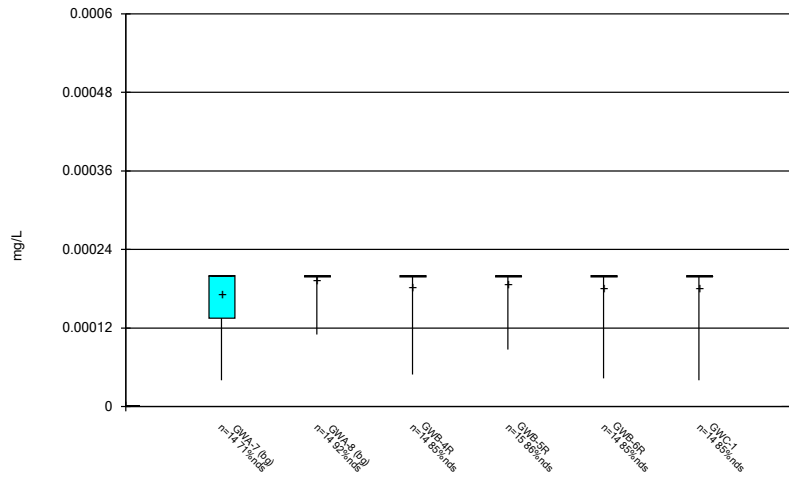
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Box & Whiskers Plot



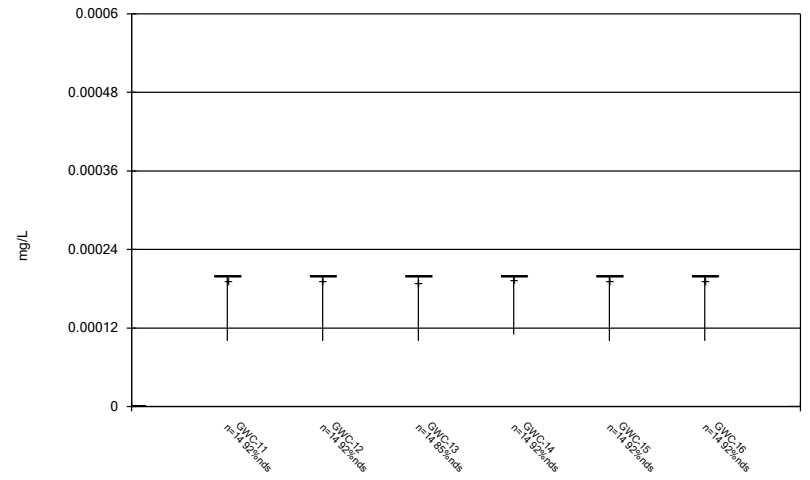
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



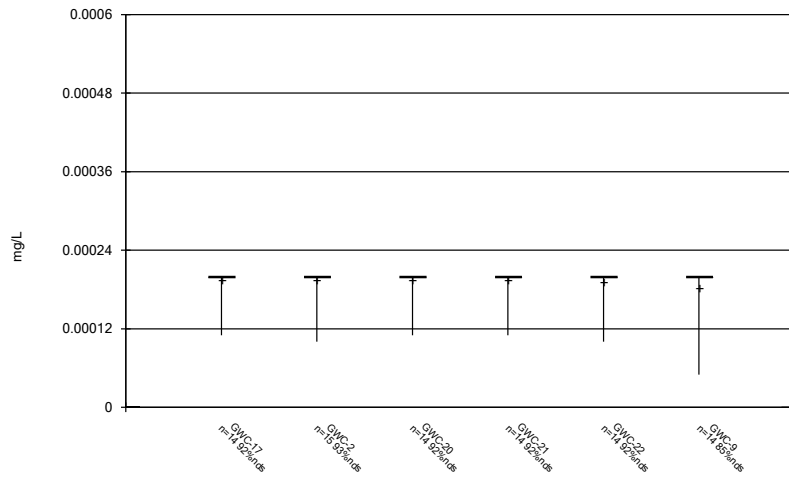
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



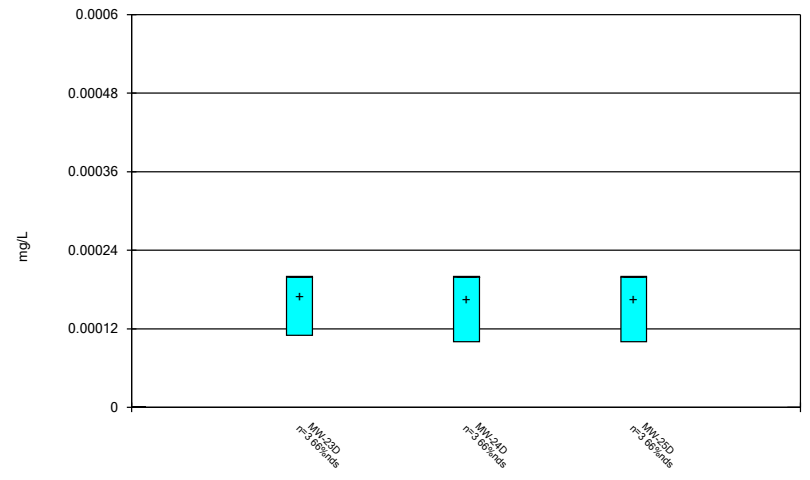
Constituent: Mercury Analysis Run 11/6/2022 9:49 AM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



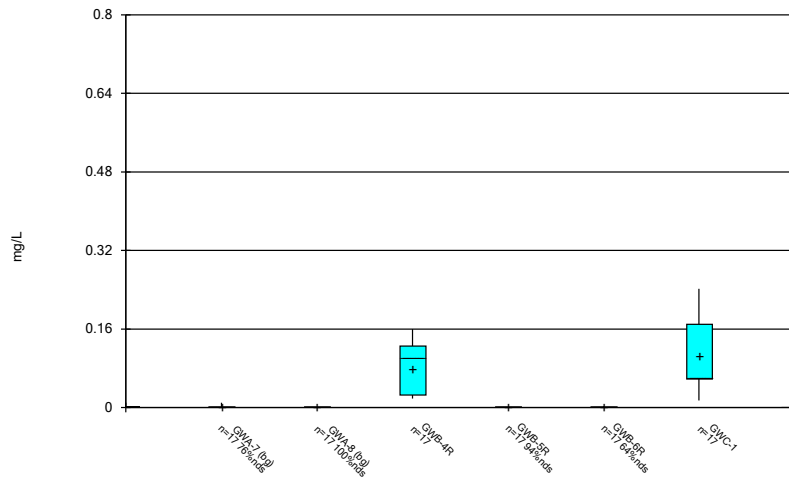
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Box & Whiskers Plot



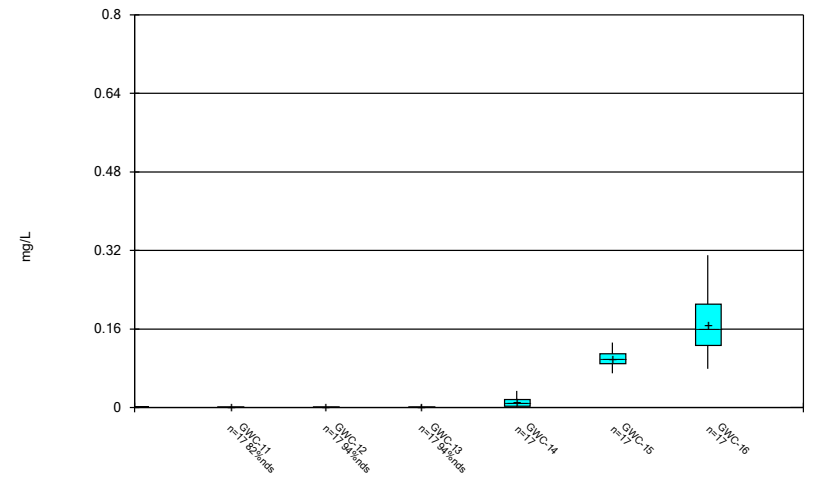
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Box & Whiskers Plot



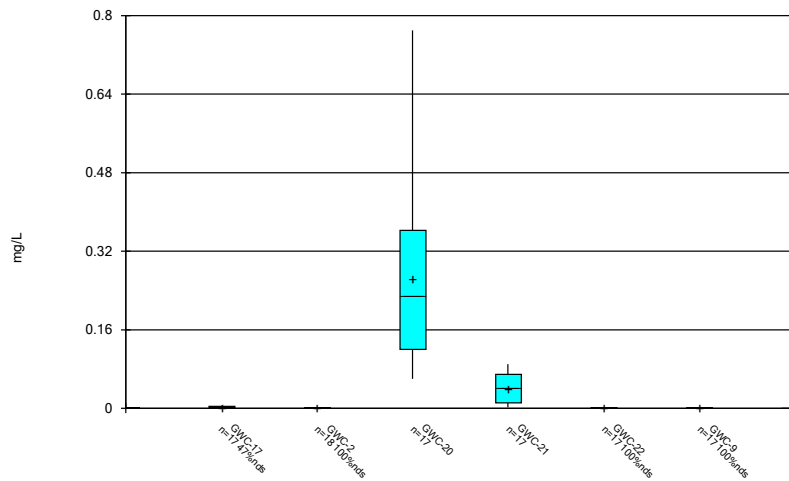
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Box & Whiskers Plot



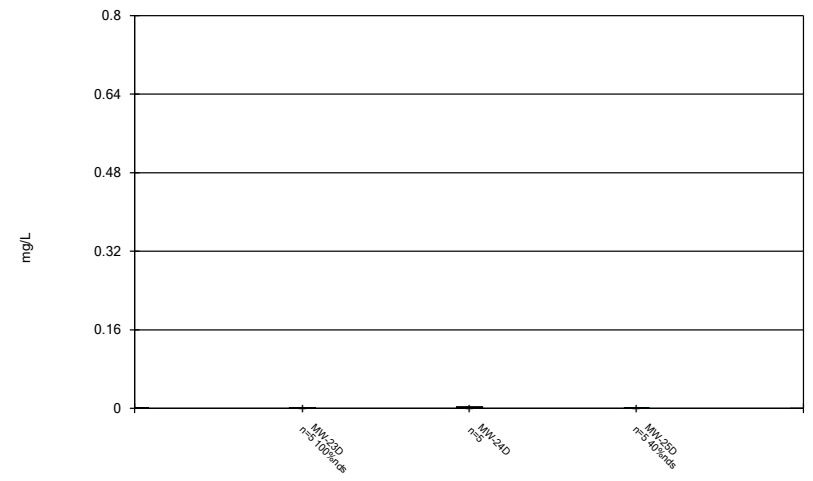
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Box & Whiskers Plot



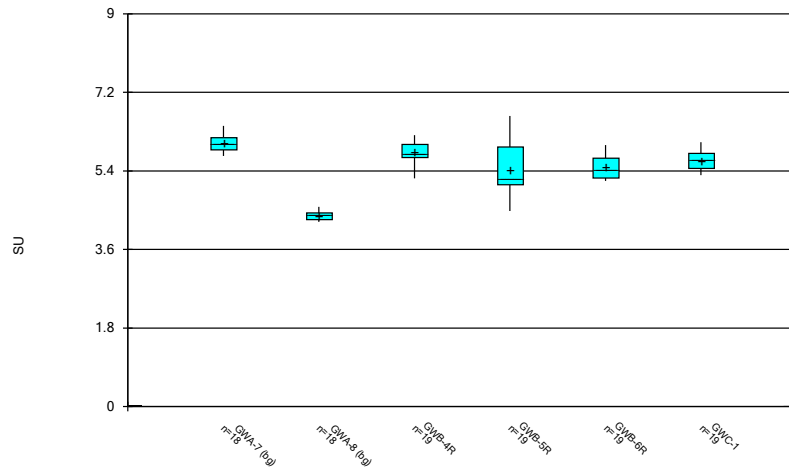
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Box & Whiskers Plot



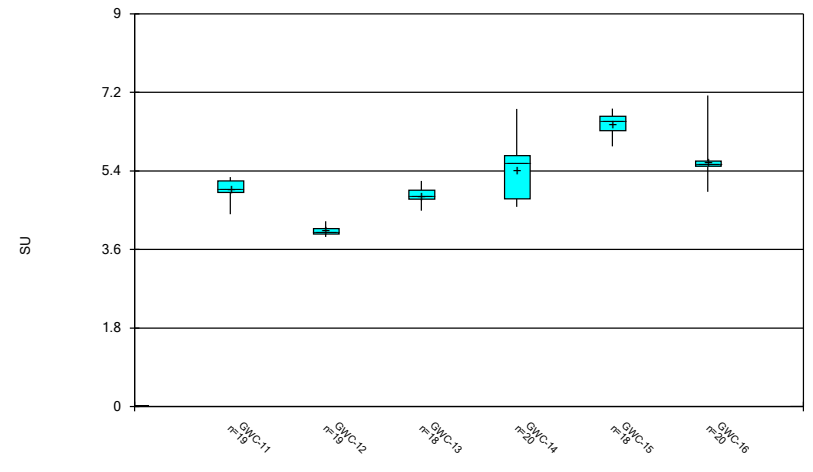
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Box & Whiskers Plot



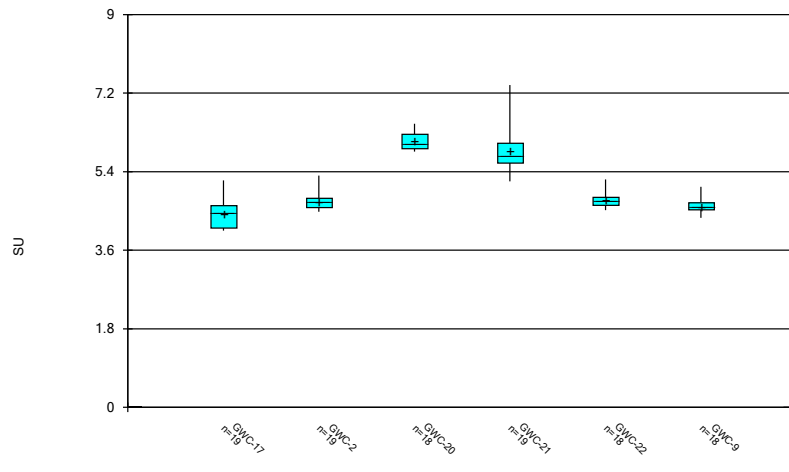
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Box & Whiskers Plot



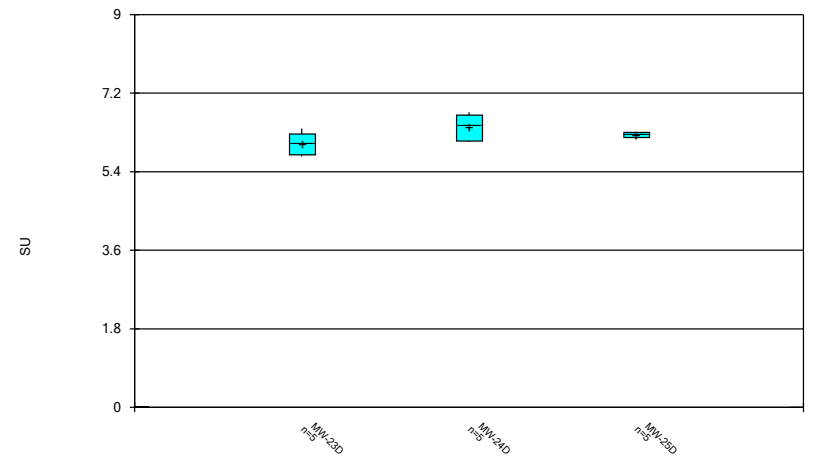
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Box & Whiskers Plot



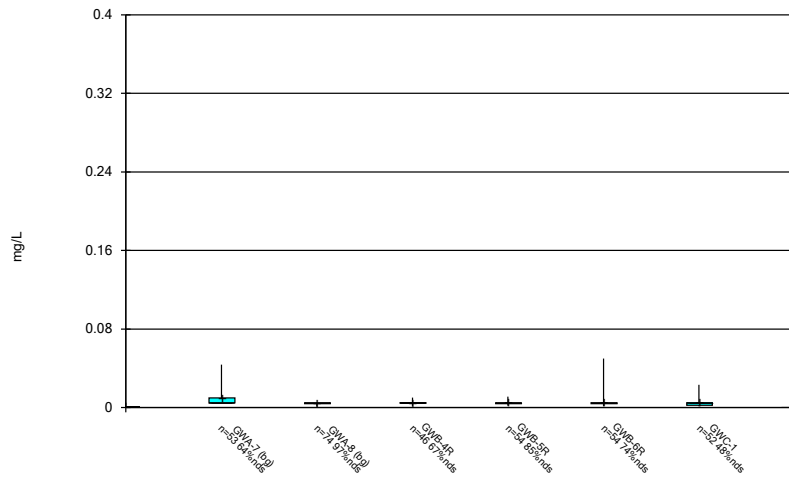
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Box & Whiskers Plot



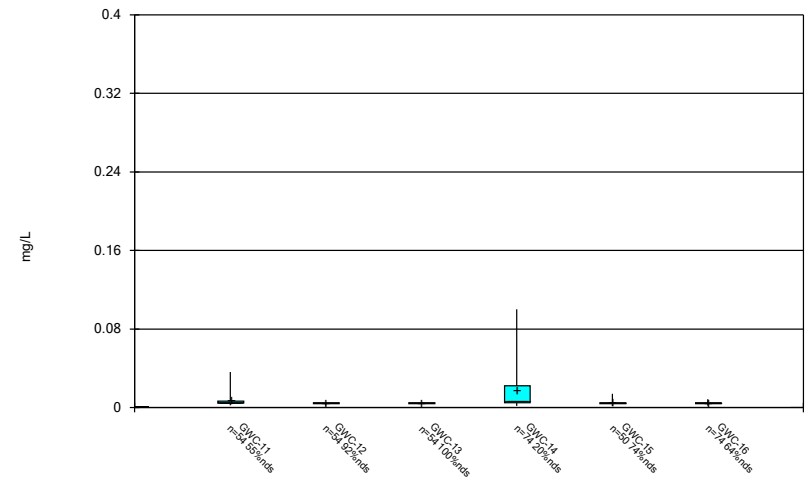
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Box & Whiskers Plot



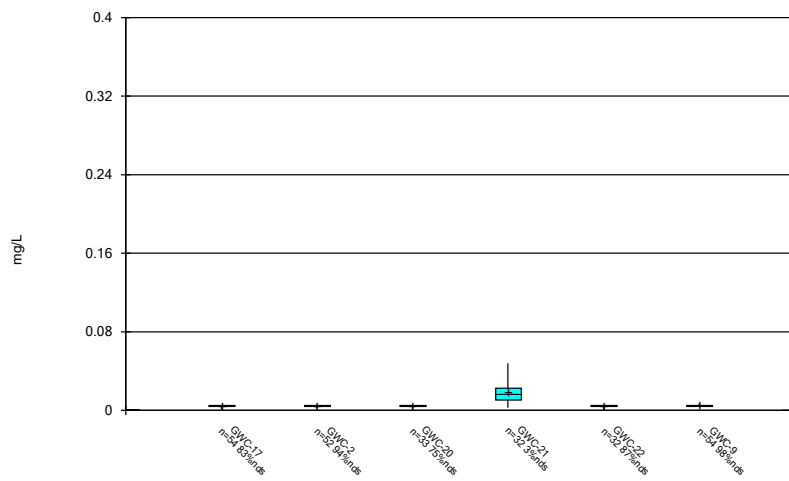
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Box & Whiskers Plot



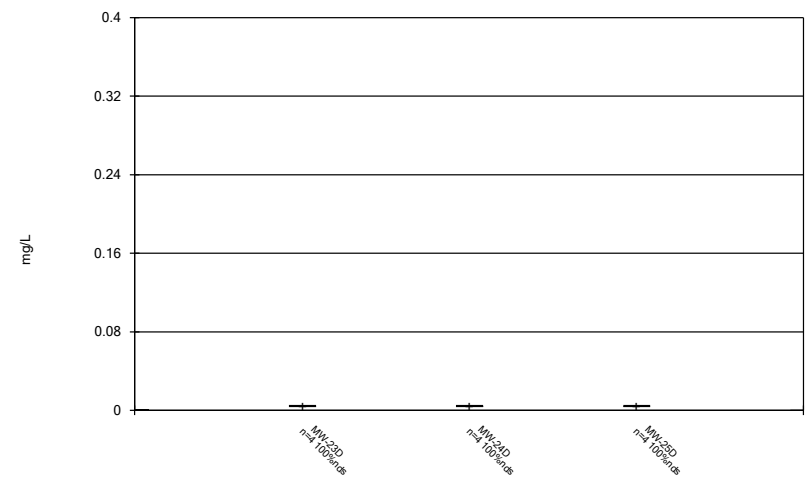
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Box & Whiskers Plot



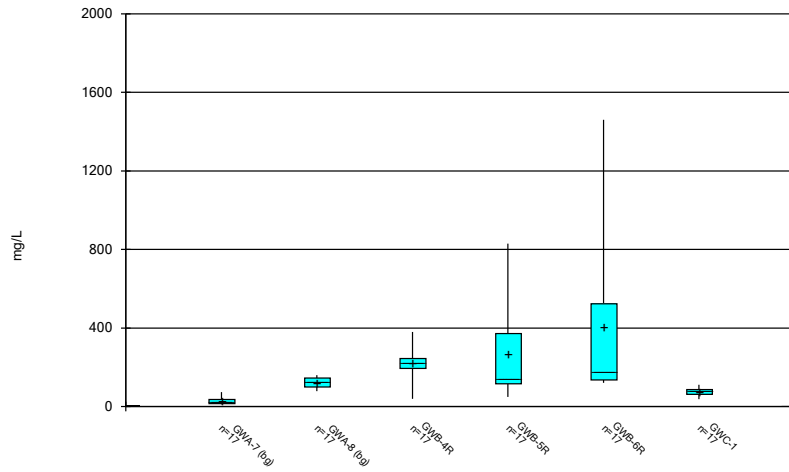
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Box & Whiskers Plot



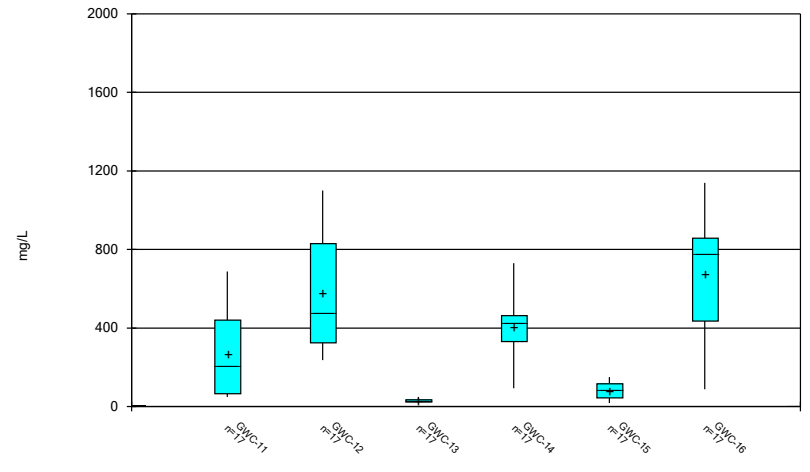
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Box & Whiskers Plot



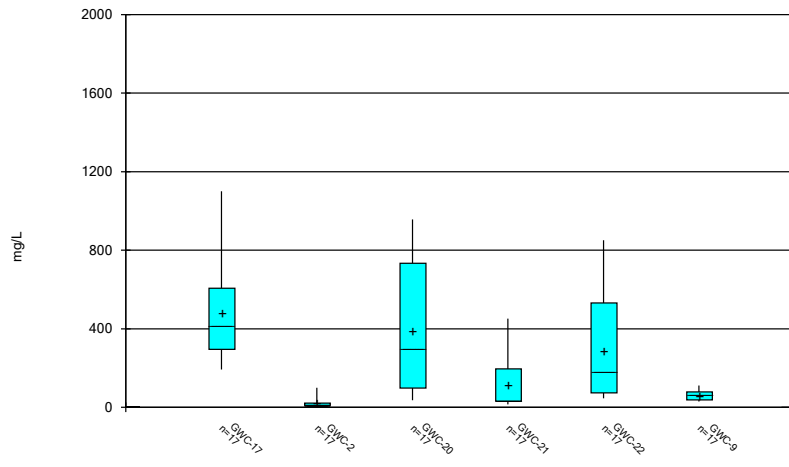
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Box & Whiskers Plot



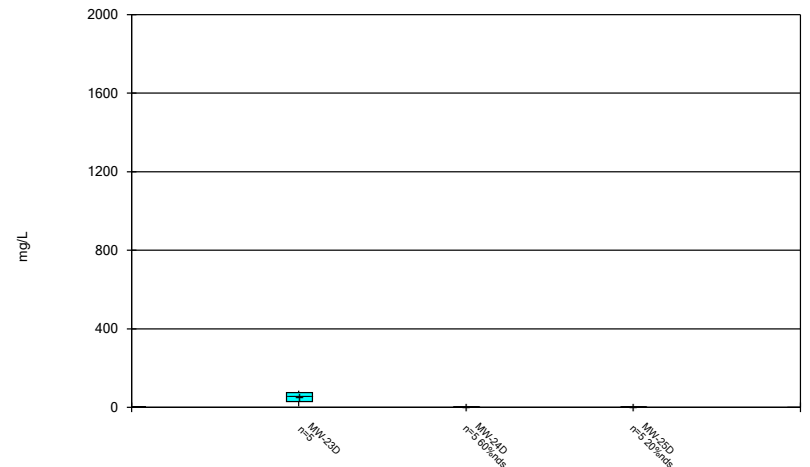
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Box & Whiskers Plot



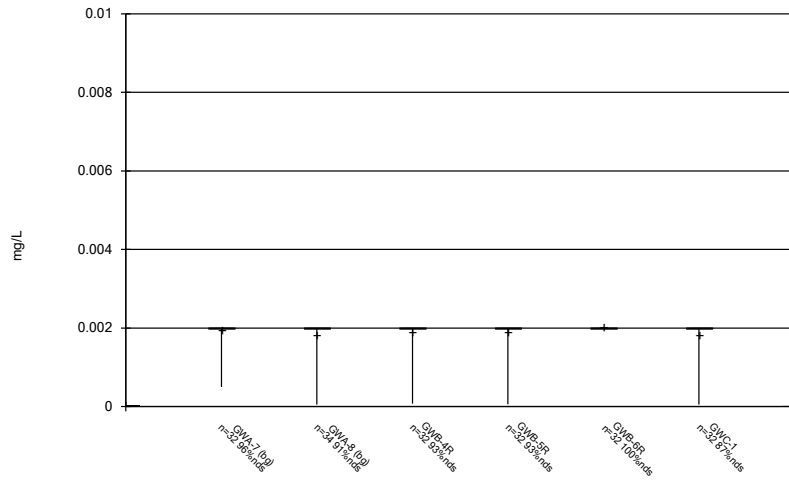
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Box & Whiskers Plot



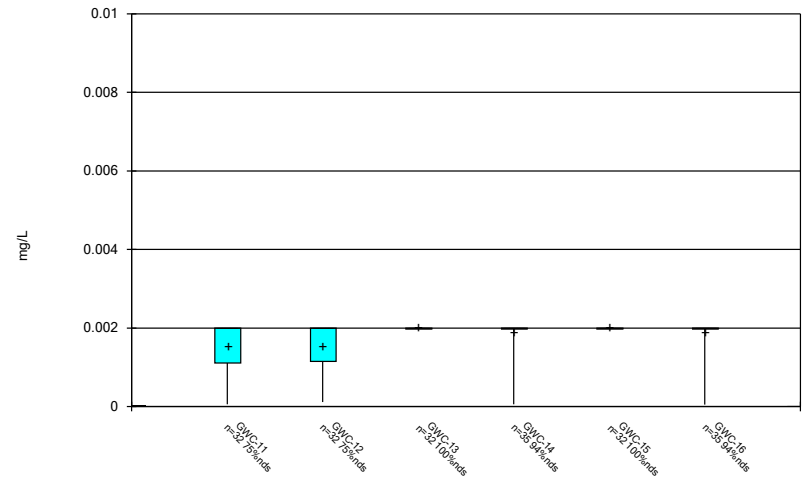
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Box & Whiskers Plot



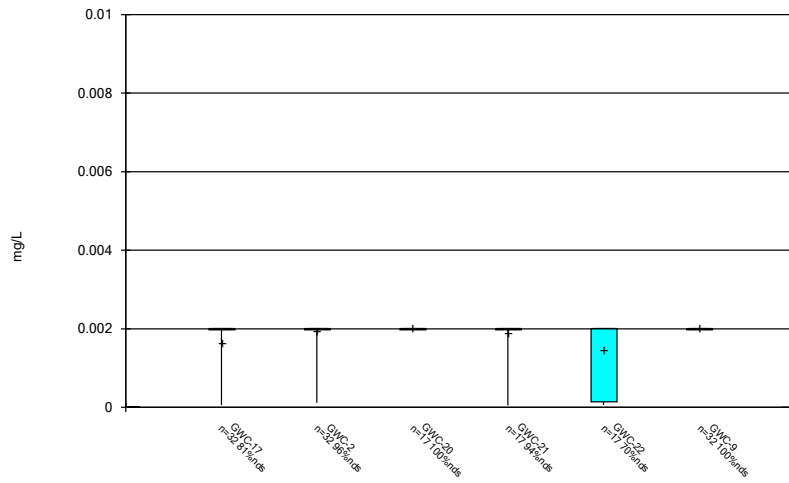
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Box & Whiskers Plot



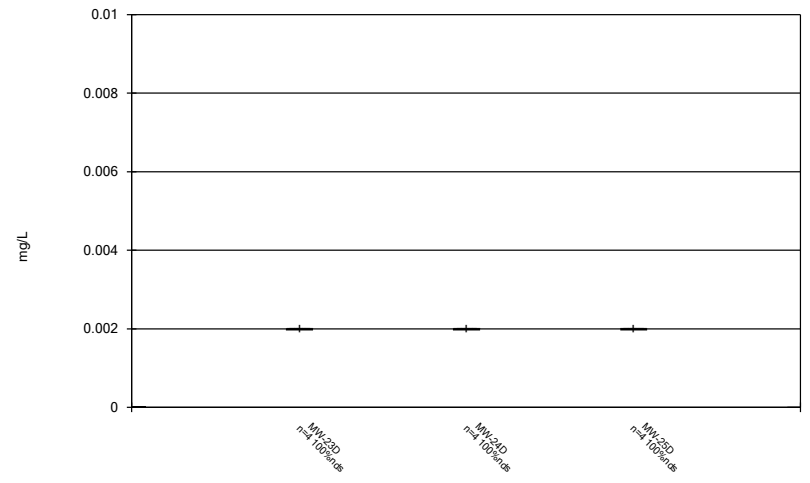
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Box & Whiskers Plot



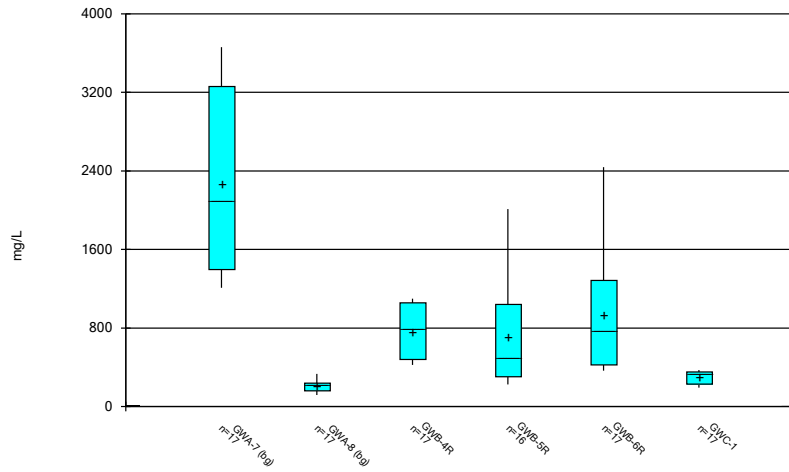
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Box & Whiskers Plot



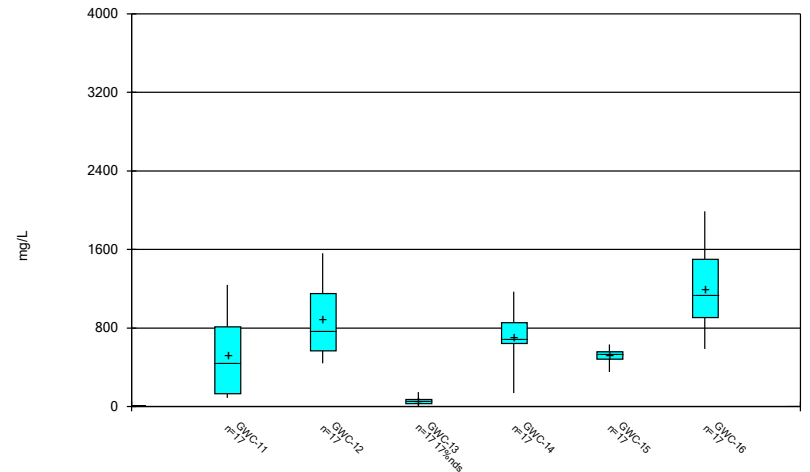
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Box & Whiskers Plot



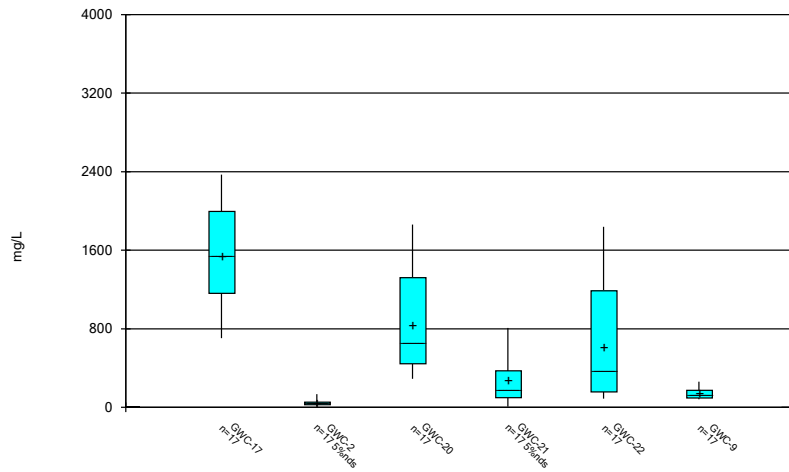
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Box & Whiskers Plot



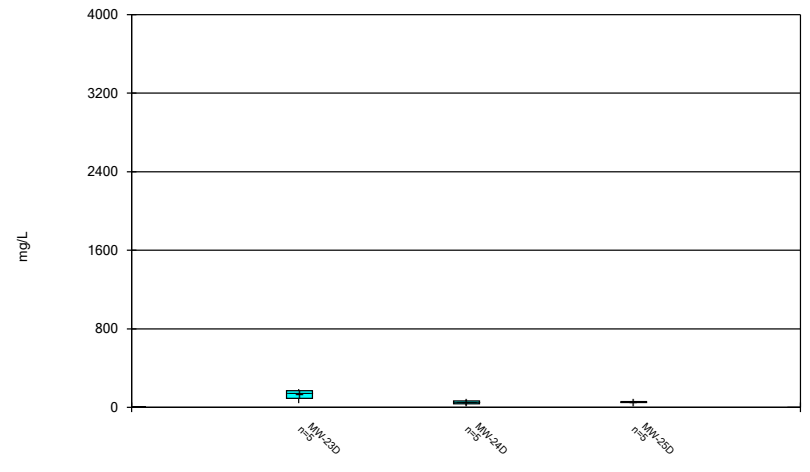
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Box & Whiskers Plot



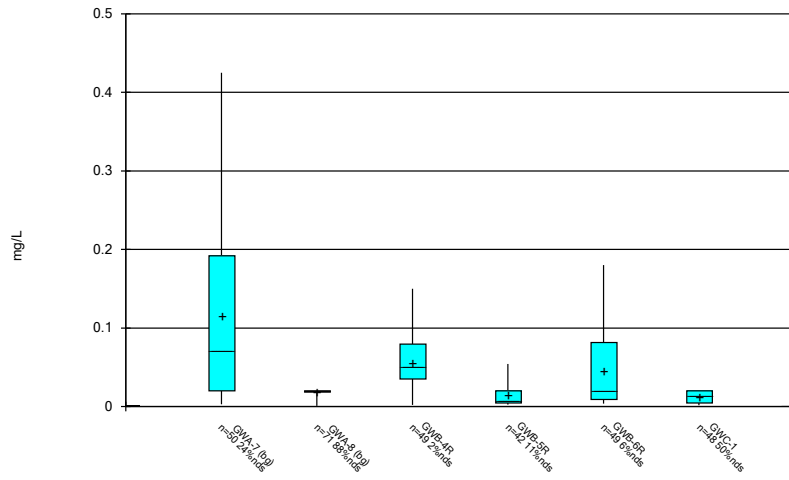
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Box & Whiskers Plot



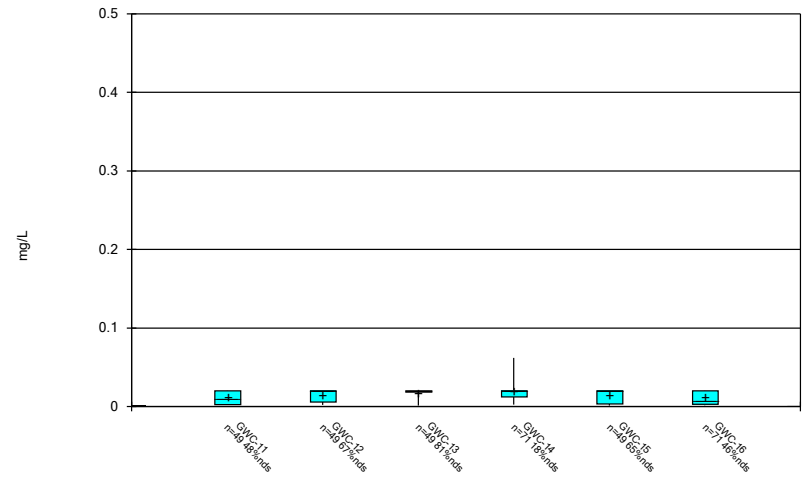
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Box & Whiskers Plot



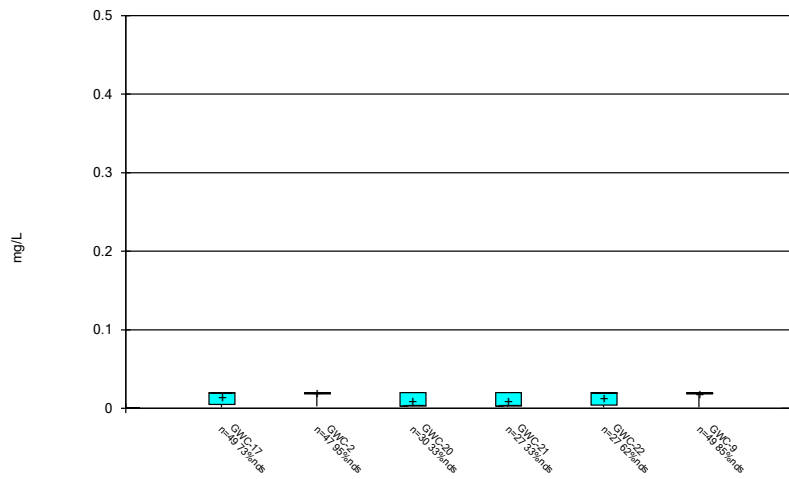
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Box & Whiskers Plot



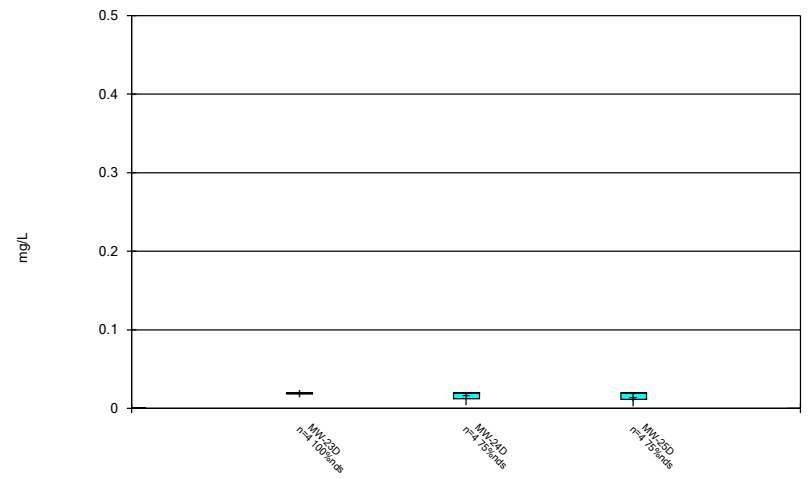
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Box & Whiskers Plot



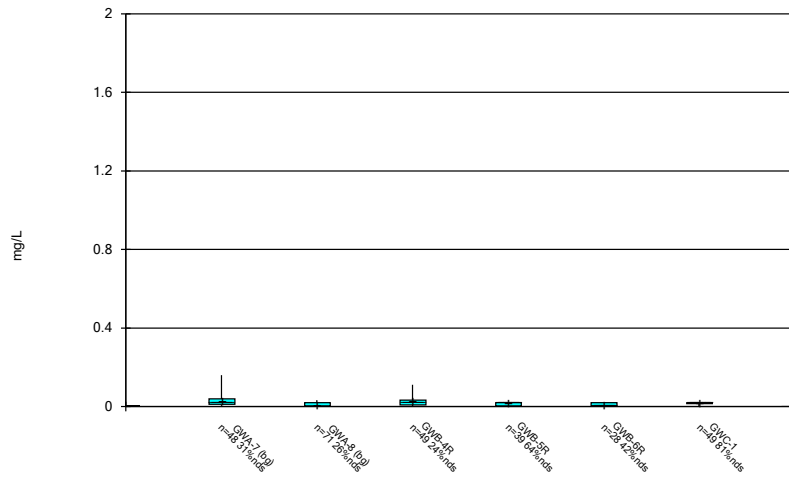
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Box & Whiskers Plot



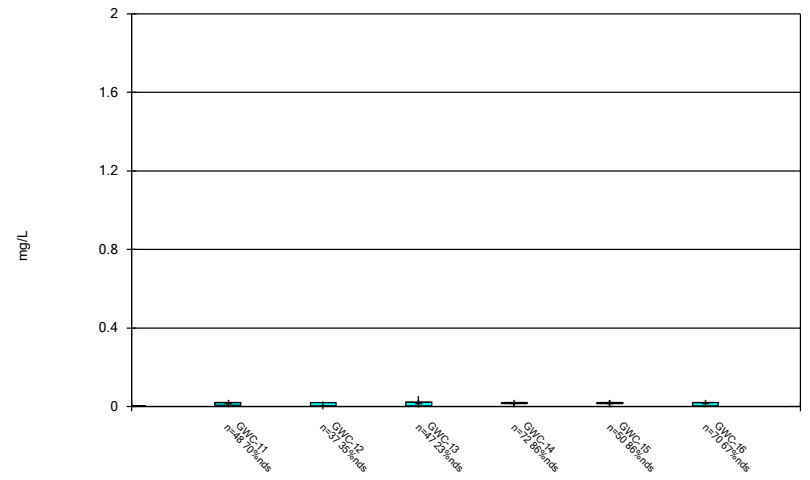
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



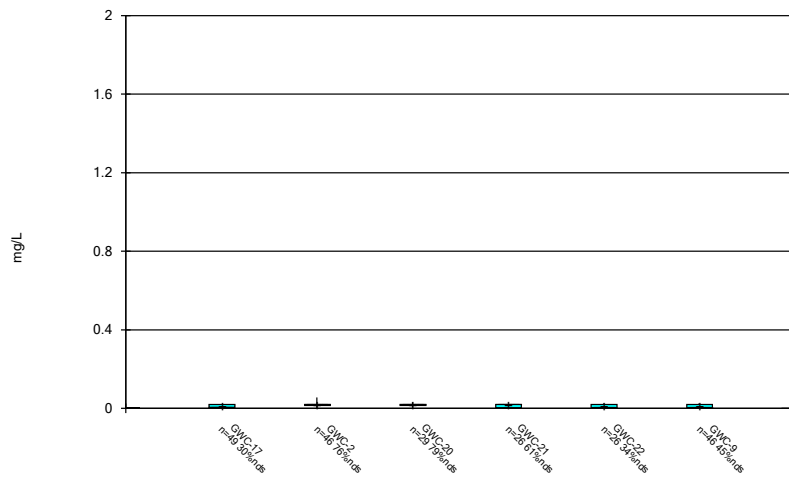
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Box & Whiskers Plot



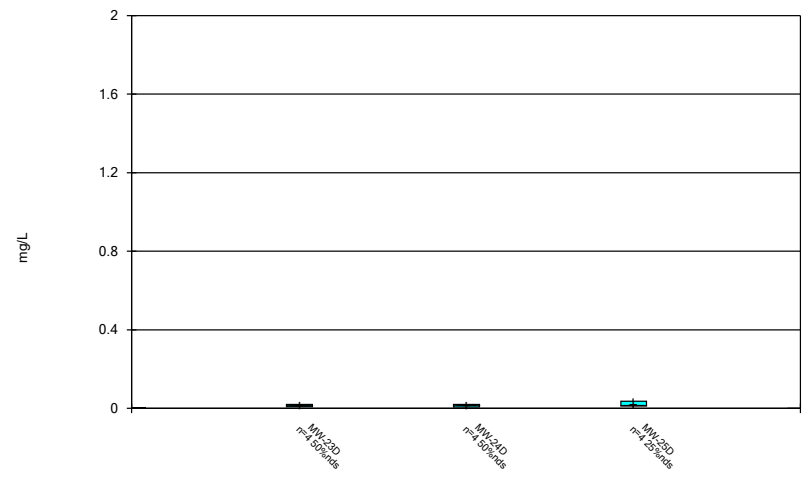
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Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/6/2022 9:50 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/6/2022 9:50 AM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE C.

FIGURE D.

Appendix I Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	8/31/2022	0.259	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/1/2022	0.0987	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	8/30/2022	0.465	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	8/30/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/31/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	9/1/2022	0.003ND	No	127	n/a	n/a	95.28	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/30/2022	0.0049J	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/30/2022	0.00253J	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/30/2022	0.00716	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	9/1/2022	0.00568	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	8/31/2022	0.259	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/1/2022	0.0987	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	8/30/2022	0.465	Yes	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	8/30/2022	0.0271	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	77.17	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.22	n/a	8/30/2022	0.134	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-5R	0.22	n/a	8/30/2022	0.051	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-6R	0.22	n/a	8/30/2022	0.0266	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-1	0.22	n/a	9/1/2022	0.0583	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-11	0.22	n/a	8/31/2022	0.115	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-12	0.22	n/a	8/30/2022	0.0275	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-13	0.22	n/a	8/31/2022	0.0379	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-14	0.22	n/a	8/30/2022	0.0773	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-15	0.22	n/a	8/31/2022	0.055	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-16	0.22	n/a	9/1/2022	0.165	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-17	0.22	n/a	8/31/2022	0.0375	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.22	n/a	9/1/2022	0.0508	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-20	0.22	n/a	8/30/2022	0.21	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-21	0.22	n/a	8/30/2022	0.191	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-22	0.22	n/a	8/31/2022	0.0741	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-9	0.22	n/a	9/1/2022	0.151	No	125	n/a	n/a	0	n/a	n/a	0.0001254	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/30/2022	0.00356J	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-15	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	8/30/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/31/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	9/1/2022	0.01ND	No	126	n/a	n/a	61.9	n/a	n/a	0.0001236	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	8/30/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/31/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	9/1/2022	0.002ND	No	123	n/a	n/a	75.61	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/30/2022	0.00265J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/30/2022	0.00277J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	9/1/2022	0.00252J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	8/31/2022	0.00344J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	8/30/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	8/30/2022	0.00544	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	8/31/2022	0.00192J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	9/1/2022	0.00334J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	8/30/2022	0.00192J	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	8/30/2022	0.00648	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/31/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	9/1/2022	0.005ND	No	127	n/a	n/a	83.46	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	8/30/2022	0.00943J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	8/30/2022	0.0138J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	8/30/2022	0.0192J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	9/1/2022	0.00748J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	8/31/2022	0.00481J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	8/30/2022	0.00949J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	8/31/2022	0.02ND	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	8/30/2022	0.00933J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	8/31/2022	0.00476J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	9/1/2022	0.0065J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	8/31/2022	0.00599J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	9/1/2022	0.0045J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	8/30/2022	0.00647J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	8/30/2022	0.00715J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	8/31/2022	0.00396J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	9/1/2022	0.00514J	No	121	n/a	n/a	61.98	n/a	n/a	0.0001324	NP Inter (NDs) 1 of 2

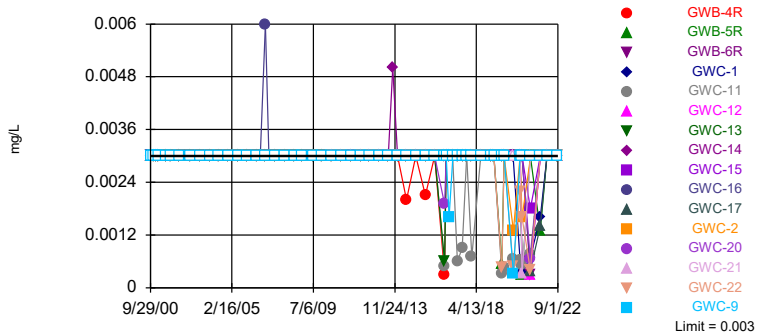
Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWB-4R	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/30/2022	0.0132J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	9/1/2022	0.00578J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	8/31/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	8/30/2022	0.0262	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/31/2022	0.0266	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	8/30/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	8/31/2022	0.00395J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	9/1/2022	0.0119J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/31/2022	0.0068J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	9/1/2022	0.0125J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	8/30/2022	0.0171J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	8/30/2022	0.00814J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/31/2022	0.02ND	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	9/1/2022	0.0163J	No	119	n/a	n/a	28.57	n/a	n/a	0.000137	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

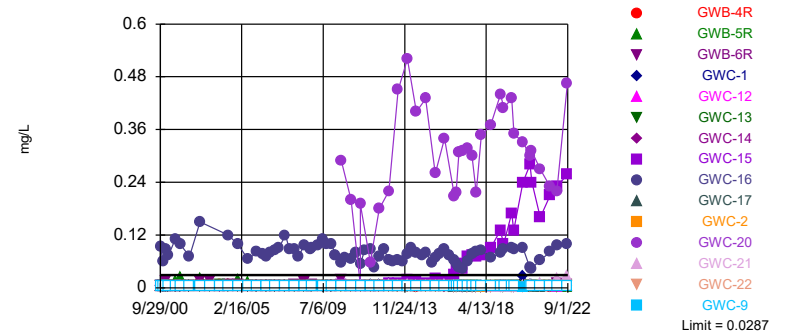


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 95.28% NDs. Annual per-constituent alpha = 0.003893. Individual comparison alpha = 0.0001219 (1 of 2). Comparing 16 points to limit.

Constituent: Antimony Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-15, GWC-16, GWC-20

Prediction Limit
Interwell Non-parametric

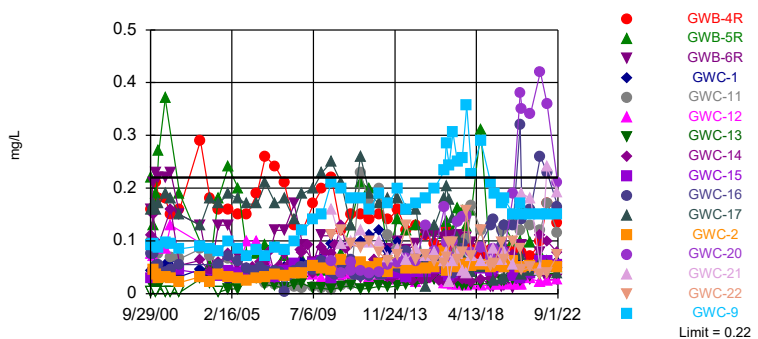


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 77.17% NDs. Annual per-constituent alpha = 0.003893. Individual comparison alpha = 0.0001219 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Arsenic Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

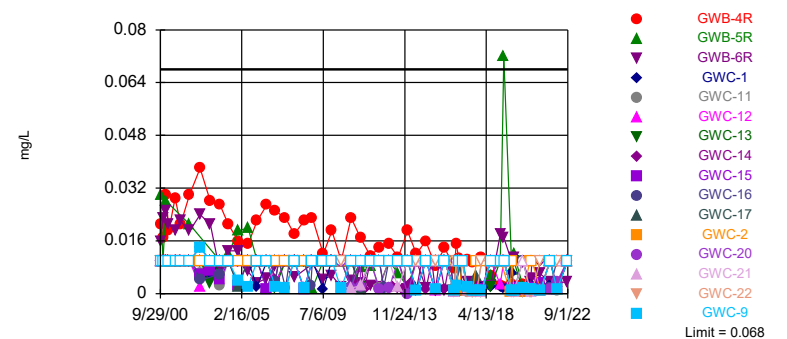


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 125 background values. Annual per-constituent alpha = 0.004005. Individual comparison alpha = 0.0001254 (1 of 2). Comparing 16 points to limit.

Constituent: Barium Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

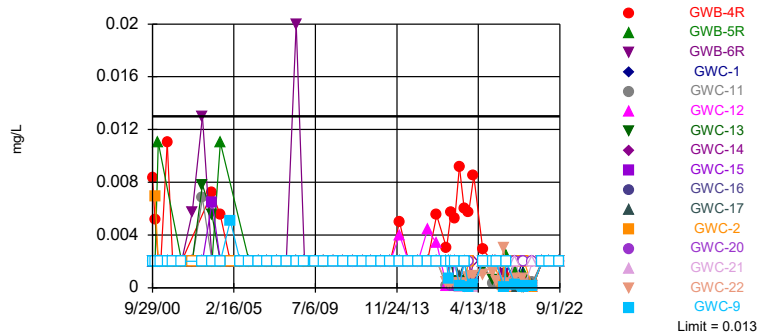


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 126 background values. 61.9% NDs. Annual per-constituent alpha = 0.003949. Individual comparison alpha = 0.0001236 (1 of 2). Comparing 16 points to limit.

Constituent: Chromium Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

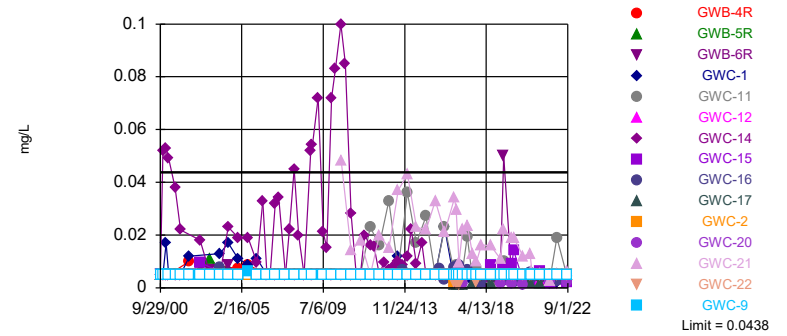


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 123 background values. 75.61% NDs. Annual per-constituent alpha = 0.004116. Individual comparison alpha = 0.0001289 (1 of 2). Comparing 16 points to limit.

Constituent: Lead Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

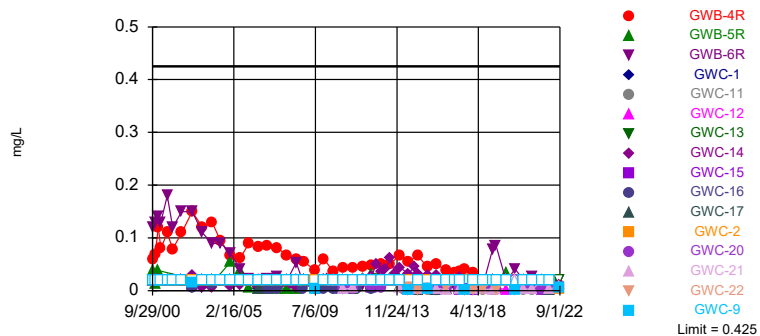


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 83.46% NDs. Annual per-constituent alpha = 0.003893. Individual comparison alpha = 0.0001219 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Selenium Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

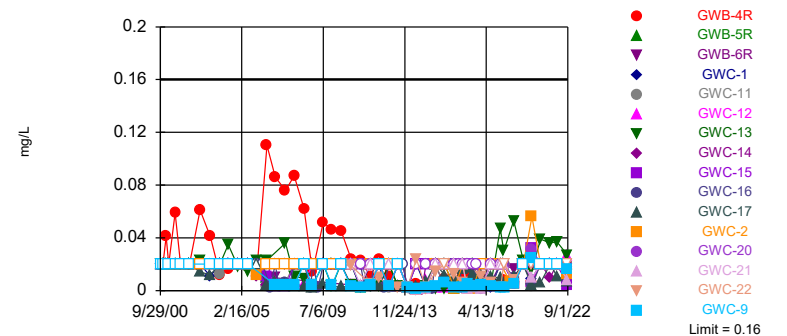


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 121 background values. 61.98% NDs. Annual per-constituent alpha = 0.004228. Individual comparison alpha = 0.0001324 (1 of 2). Comparing 16 points to limit.

Constituent: Vanadium Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

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 119 background values. 28.57% NDs. Annual per-constituent alpha = 0.004375. Individual comparison alpha = 0.000137 (1 of 2). Comparing 16 points to limit.

Constituent: Zinc Analysis Run 9/28/2022 10:39 AM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWA-8 (bg)	GWC-13	GWC-12	GWB-5R	GWC-9	GWC-15	GWC-11
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006			<0.003						
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006			<0.003						
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/15/2007			<0.003						
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007			<0.003						
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008			<0.003						
6/23/2008	<0.003		<0.003	<0.003	<0.003		<0.003		<0.003
6/24/2008		<0.003				<0.003		<0.003	
11/3/2008			<0.003						
12/4/2008	<0.003		<0.003	<0.003	<0.003		<0.003		<0.003
12/5/2008		<0.003				<0.003		<0.003	
3/25/2009			<0.003						
7/7/2009	<0.003	<0.003	<0.003			<0.003			
7/8/2009				<0.003	<0.003		<0.003	<0.003	<0.003
9/14/2009			<0.003						
12/20/2009	<0.003		<0.003					<0.003	
12/21/2009		<0.003		<0.003	<0.003	<0.003	<0.003		<0.003
3/4/2010			<0.003						
6/20/2010	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2010		<0.003							
9/14/2010			<0.003						
1/6/2011				<0.003		<0.003			<0.003
1/7/2011	<0.003	<0.003	<0.003		<0.003		<0.003	<0.003	
4/15/2011			<0.003						
7/7/2011	<0.003		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
7/8/2011		<0.003					<0.003		
9/25/2011			<0.003						
1/17/2012	<0.003		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
1/18/2012		<0.003					<0.003		
4/4/2012			<0.003						
7/9/2012	<0.003			<0.003	<0.003	<0.003		<0.003	<0.003
7/10/2012		<0.003	<0.003				<0.003		
10/9/2012			<0.003						
1/17/2013				<0.003	<0.003	<0.003			<0.003
1/18/2013	<0.003	<0.003	<0.003				<0.003	<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWA-8 (bg)	GWC-13	GWC-12	GWB-5R	GWC-9	GWC-15	GWC-11
4/5/2013			<0.003						
7/16/2013				<0.003	<0.003	<0.003			<0.003
7/17/2013	<0.003	<0.003	<0.003				<0.003	<0.003	
10/11/2013			<0.003						
1/13/2014	<0.003			<0.003	<0.003	<0.003		<0.003	<0.003
1/14/2014		<0.003	<0.003				<0.003		
4/3/2014			<0.003						
7/8/2014				<0.003	<0.003				<0.003
7/9/2014	0.0022 (J)	0.002 (J)	<0.003			<0.003	<0.003	<0.003	
7/10/2014									
10/24/2014			<0.003						
1/12/2015		<0.003							
1/13/2015	<0.003			<0.003	<0.003	<0.003		<0.003	<0.003
1/14/2015			<0.003				<0.003		
5/10/2015			<0.003						
5/11/2015									
7/16/2015	0.0028 (J)	0.0021 (J)		<0.003	<0.003	<0.003		<0.003	<0.003
7/17/2015			<0.003				<0.003		
7/18/2015									
10/6/2015			<0.003						
1/17/2016								<0.003	
1/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
1/19/2016									<0.003
4/26/2016			<0.003						
7/26/2016				0.0006 (J)					0.0005 (J)
7/27/2016	<0.003				<0.003	<0.003		<0.003	
7/28/2016			<0.003				<0.003		
7/29/2016		0.0003 (J)							
8/30/2016			<0.003			<0.003			
8/31/2016				<0.003	<0.003		<0.003		<0.003
9/1/2016	0.0017 (J)	<0.003						<0.003	
10/24/2016			<0.003						
10/25/2016	<0.003							<0.003	
10/26/2016		<0.003		<0.003	<0.003	<0.003			<0.003
10/27/2016							0.0016 (J)		
1/3/2017			<0.003			<0.003			
1/4/2017					<0.003				<0.003
1/5/2017				<0.003				<0.003	
1/6/2017	0.0009 (J)	<0.003					<0.003		
4/3/2017			<0.003					<0.003	
4/4/2017		<0.003							
4/5/2017					<0.003				
4/6/2017	<0.003			<0.003		<0.003	<0.003		0.0006 (J)
7/10/2017					<0.003				
7/11/2017			<0.003					<0.003	0.0009 (J)
7/12/2017		<0.003		<0.003		<0.003	<0.003		
7/13/2017	0.0013 (J)								
10/2/2017			<0.003					<0.003	
10/3/2017						<0.003			<0.003
10/4/2017	0.0008 (J)	<0.003		<0.003	<0.003		<0.003		
1/9/2018	<0.003		<0.003					<0.003	
1/10/2018				<0.003		<0.003			

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWA-8 (bg)	GWC-13	GWC-12	GWB-5R	GWC-9	GWC-15	GWC-11
1/11/2018		<0.003			<0.003		<0.003		0.0007 (J)
7/9/2018			<0.003						
7/10/2018						<0.003		<0.003	
7/11/2018	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
1/16/2019	<0.003	<0.003	<0.003	<0.003		<0.003			
1/17/2019					<0.003			<0.003	<0.003
1/18/2019							<0.003		
1/21/2019									
3/25/2019	<0.003	<0.003	<0.003						
3/26/2019				<0.003		<0.003		<0.003	
3/27/2019					<0.003		<0.003		<0.003
7/30/2019									
8/26/2019	<0.003		<0.003						
8/27/2019		<0.003		<0.003	<0.003			<0.003	0.00033 (J)
8/28/2019						0.00054 (J)	<0.003		
10/7/2019			<0.003						
10/8/2019	<0.003			<0.003				<0.003	0.00046 (J)
10/9/2019		<0.003			<0.003	<0.003	<0.003		
4/6/2020	<0.003		<0.003						
4/7/2020		<0.003			<0.003	<0.003		<0.003	0.00066 (J)
4/8/2020				<0.003			0.00033 (J)		
8/17/2020			<0.003	<0.003	<0.003				
8/18/2020								<0.003	0.00064 (J)
8/19/2020	<0.003	<0.003				<0.003	<0.003		
9/28/2020	<0.003		<0.003	<0.003					
9/29/2020					<0.003				0.00051 (J)
9/30/2020						0.0003 (J)		<0.003	
10/1/2020		<0.003					<0.003		
3/10/2021		<0.003			0.0003 (J)	<0.003	<0.003		0.00076 (J)
3/11/2021	<0.003								
3/12/2021			<0.003					0.0018 (J)	
3/15/2021				<0.003					
3/16/2021									
9/21/2021	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)			<0.003
9/22/2021							<0.003		
9/23/2021								<0.003	
1/31/2022	<0.003		<0.003						
2/1/2022									
2/2/2022		<0.003					<0.003		
2/3/2022				<0.003	<0.003	<0.003		<0.003	<0.003
8/30/2022	<0.003	<0.003	<0.003		<0.003	<0.003			
8/31/2022				<0.003				<0.003	<0.003
9/1/2022							<0.003		

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-16	GWC-14	GWC-17	GWC-1	GWC-2	GWC-22	GWC-20	GWC-21
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003				
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/4/2006		<0.003	<0.003						
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
8/30/2006		<0.003	<0.003						
12/4/2006	<0.003	0.006	<0.003	<0.003	<0.003	<0.003			
2/15/2007		<0.003	<0.003						
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
9/11/2007		<0.003	<0.003						
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/11/2008		<0.003	<0.003						
6/23/2008									
6/24/2008	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/3/2008		<0.003	<0.003						
12/4/2008			<0.003				<0.003		
12/5/2008	<0.003	<0.003		<0.003	<0.003				
3/25/2009		<0.003	<0.003						
7/7/2009	<0.003				<0.003				
7/8/2009		<0.003	<0.003	<0.003		<0.003			
9/14/2009		<0.003	<0.003						
12/20/2009		<0.003	<0.003		<0.003	<0.003			
12/21/2009	<0.003			<0.003					
3/4/2010		<0.003	<0.003						
6/20/2010	<0.003		<0.003		<0.003	<0.003			
6/21/2010		<0.003		<0.003			<0.003	<0.003	<0.003
9/14/2010		<0.003	<0.003						
1/6/2011					<0.003	<0.003			
1/7/2011	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
4/15/2011		<0.003	<0.003						
7/7/2011	<0.003	<0.003	<0.003		<0.003			<0.003	
7/8/2011				<0.003			<0.003	<0.003	<0.003
9/25/2011		<0.003	<0.003						
1/17/2012			<0.003		<0.003	<0.003			
1/18/2012	<0.003	<0.003		<0.003			<0.003	<0.003	<0.003
4/4/2012		<0.003	<0.003						
7/9/2012			<0.003		<0.003	<0.003			
7/10/2012	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
10/9/2012		<0.003	<0.003						
1/17/2013					<0.003	<0.003			
1/18/2013	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-16	GWC-14	GWC-17	GWC-1	GWC-2	GWC-22	GWC-20	GWC-21
4/5/2013		<0.003	<0.003						
7/16/2013					<0.003				
7/17/2013	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
10/11/2013		<0.003	0.005						
1/13/2014					<0.003	<0.003			
1/14/2014	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
4/3/2014		<0.003	<0.003						
7/8/2014									
7/9/2014	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003
7/10/2014							<0.003	<0.003	
10/24/2014		<0.003	<0.003						
1/12/2015								<0.003	
1/13/2015					<0.003	<0.003			
1/14/2015	<0.003	<0.003	<0.003	<0.003			<0.003		<0.003
5/10/2015			<0.003						
5/11/2015		<0.003							
7/16/2015		<0.003			<0.003	<0.003			
7/17/2015	<0.003		<0.003						<0.003
7/18/2015				<0.003			<0.003	<0.003	
10/6/2015		<0.003	<0.003						
1/17/2016		<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
1/18/2016	<0.003			<0.003			<0.003		
1/19/2016									
4/26/2016		<0.003	<0.003						
7/26/2016									
7/27/2016			<0.003		<0.003	<0.003			
7/28/2016	<0.003	<0.003						0.0019 (J)	<0.003
7/29/2016				<0.003			<0.003		
8/30/2016	<0.003				<0.003				
8/31/2016						<0.003	<0.003		
9/1/2016		<0.003	<0.003	<0.003				<0.003	<0.003
10/24/2016									
10/25/2016		<0.003	<0.003		<0.003			<0.003	<0.003
10/26/2016	<0.003			<0.003		<0.003	<0.003		
10/27/2016									
1/3/2017									
1/4/2017		<0.003			<0.003		<0.003	<0.003	<0.003
1/5/2017	<0.003		<0.003	<0.003		<0.003			
1/6/2017									
4/3/2017									
4/4/2017			<0.003		<0.003	<0.003		<0.003	<0.003
4/5/2017		<0.003		<0.003					
4/6/2017	<0.003						<0.003		
7/10/2017									
7/11/2017			<0.003				<0.003	<0.003	
7/12/2017	<0.003	<0.003			<0.003				
7/13/2017				<0.003		<0.003			<0.003
10/2/2017			<0.003					<0.003	
10/3/2017	<0.003	<0.003			<0.003	<0.003			<0.003
10/4/2017				<0.003			<0.003		
1/9/2018	<0.003		<0.003						<0.003
1/10/2018		<0.003			<0.003	<0.003		<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-16	GWC-14	GWC-17	GWC-1	GWC-2	GWC-22	GWC-20	GWC-21
1/11/2018				<0.003			<0.003		
7/9/2018			<0.003					<0.003	
7/10/2018	<0.003	<0.003			<0.003	<0.003			<0.003
7/11/2018				<0.003			<0.003		
1/16/2019	<0.003		<0.003	<0.003	<0.003				
1/17/2019		<0.003							<0.003
1/18/2019							<0.003		
1/21/2019						<0.003		<0.003	
3/25/2019								<0.003	
3/26/2019	<0.003	<0.003	<0.003	<0.003	<0.003				<0.003
3/27/2019							<0.003		
7/30/2019						<0.003			
8/26/2019									
8/27/2019	<0.003		<0.003		<0.003	<0.003	0.00045 (J)		
8/28/2019		<0.003		<0.003				<0.003	<0.003
10/7/2019									
10/8/2019		<0.003	<0.003						<0.003
10/9/2019	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	
4/6/2020									
4/7/2020	<0.003	<0.003	<0.003		<0.003		0.00049 (J)		<0.003
4/8/2020				<0.003		0.0013 (J)		<0.003	
8/17/2020									
8/18/2020		<0.003	<0.003	<0.003		<0.003	0.0022 (J)	<0.003	<0.003
8/19/2020	<0.003				0.00061 (J)				
9/28/2020					0.00035 (J)				
9/29/2020			<0.003			0.0016 (J)			
9/30/2020	0.00059 (J)	<0.003		<0.003			0.0016 (J)	<0.003	0.00033 (J)
10/1/2020									
3/10/2021	0.00029 (J)				0.00069 (J)		0.0004 (J)		
3/11/2021				0.00039 (J)					
3/12/2021								0.00065 (J)	
3/15/2021						<0.003			
3/16/2021		<0.003	<0.003						<0.003
9/21/2021	<0.003						<0.003		
9/22/2021		<0.003	<0.003	0.0014 (J)		<0.003		<0.003	<0.003
9/23/2021					0.0016 (J)				
1/31/2022									
2/1/2022		<0.003		<0.003				<0.003	<0.003
2/2/2022	<0.003		<0.003			<0.003			
2/3/2022					<0.003		<0.003		
8/30/2022	<0.003		<0.003					<0.003	<0.003
8/31/2022				<0.003			<0.003		
9/1/2022		<0.003			<0.003	<0.003			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/20/2001	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		0.022	0.014	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
6/6/2003	0.02	0.07 (O)	0.014	0.03 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005
5/26/2004	<0.005	0.0074	0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2004	<0.005	0.017	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2005	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006					<0.005			<0.005	
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006					<0.005			<0.005	
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007					<0.005			<0.005	
6/23/2007	<0.005	<0.005	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007					<0.005			<0.005	
12/11/2007	<0.005	<0.005	0.0057	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2008					<0.005			<0.005	
6/23/2008	<0.005				<0.005	<0.005	<0.005		
6/24/2008		<0.005	0.012	<0.005				<0.005	<0.005
11/3/2008					<0.005			<0.005	
12/4/2008	<0.005				<0.005	<0.005	<0.005	<0.005	
12/5/2008		<0.005	0.0064	<0.005					<0.005
3/25/2009					<0.005			<0.005	
7/7/2009	<0.005	<0.005	<0.005	<0.005	<0.005				
7/8/2009						<0.005	<0.005	<0.005	0.0052
9/14/2009					<0.005			<0.005	
12/20/2009	<0.005			<0.005	<0.005			<0.005	<0.005
12/21/2009		<0.005	<0.005			<0.005	<0.005		
3/4/2010					<0.005			<0.005	
6/20/2010	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	0.0068
6/21/2010									
9/14/2010					<0.005			<0.005	
1/6/2011		<0.005		<0.005			<0.005		
1/7/2011	<0.005		<0.005		<0.005	<0.005		<0.005	<0.005
4/15/2011					<0.005			<0.005	
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/8/2011									
9/25/2011					<0.005			<0.005	
1/17/2012	<0.005	<0.005		0.0071	<0.005	<0.005	<0.005	<0.005	<0.005
1/18/2012			<0.005						
4/4/2012					<0.005			<0.005	
7/9/2012	0.0052	<0.005		0.0076		<0.005	<0.005	<0.005	<0.005
7/10/2012			<0.005		<0.005				
10/9/2012					<0.005			<0.005	
1/17/2013		<0.005		0.0086		<0.005	<0.005		
1/18/2013	0.0087		<0.005		<0.005			<0.005	0.0089

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
4/5/2013					<0.005			<0.005	
7/16/2013		<0.005		<0.005		<0.005	<0.005		
7/17/2013	0.0084		<0.005		<0.005		<0.005		0.011
10/11/2013					<0.005			0.005	
1/13/2014	0.009	<0.005		<0.005		<0.005	<0.005		0.017
1/14/2014			<0.005		<0.005			<0.005	
4/3/2014					<0.005			<0.005	
7/8/2014						<0.005	<0.005		
7/9/2014	0.008	<0.005	<0.005	0.0022 (J)	<0.005			<0.005	0.014
7/10/2014									
10/24/2014					<0.005			<0.005	
1/12/2015									
1/13/2015	0.0077	<0.005		<0.005		<0.005	<0.005		0.011
1/14/2015			<0.005		<0.005			<0.005	
5/10/2015					<0.005			<0.005	
5/11/2015									
7/16/2015	0.0077	<0.005		0.0037 (J)		<0.005	<0.005		0.02
7/17/2015			<0.005		<0.005			<0.005	
7/18/2015									
10/6/2015					<0.005			<0.005	
1/17/2016				0.024 (O)				0.002 (J)	0.014
1/18/2016	0.014	<0.005	<0.005		<0.005	<0.005	<0.005		
4/26/2016					0.0011 (J)			0.00183 (J)	
7/26/2016							<0.005		
7/27/2016	0.0111	0.0008 (J)		0.0046 (J)		<0.005		0.0021 (J)	0.0303
7/28/2016			0.0009 (J)		<0.005				
7/29/2016									
8/30/2016		<0.005	<0.005	0.0023 (J)	<0.005				
8/31/2016						<0.005	<0.005		
9/1/2016	0.0287							0.0024 (J)	0.0533
10/24/2016					<0.005				
10/25/2016	0.0069			0.0035 (J)				<0.005	0.0551
10/26/2016		<0.005	<0.005			<0.005	<0.005		
10/27/2016									
1/3/2017		<0.005			<0.005				
1/4/2017				0.0018 (J)		<0.005			
1/5/2017			0.0021 (J)				<0.005	0.0024 (J)	0.0437
1/6/2017	0.0097								
4/3/2017					0.0006 (J)				0.0713
4/4/2017				0.0015 (J)				0.003 (J)	
4/5/2017						0.0006 (J)			
4/6/2017	0.0104	0.0006 (J)	0.0011 (J)				<0.005		
7/10/2017						0.0008 (J)			
7/11/2017					0.0006 (J)			0.0019 (J)	0.0745
7/12/2017		0.0009 (J)	0.0014 (J)	0.0015 (J)			<0.005		
7/13/2017	0.0064								
10/2/2017					0.0006 (J)			0.0026 (J)	0.0723
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)					
10/4/2017	0.0078					0.0009 (J)	<0.005		
1/9/2018	0.0091 (J)		0.0017 (J)		0.0009 (J)			0.0021 (J)	0.0731
1/10/2018		0.0012 (J)		0.0023 (J)			0.0006 (J)		
1/11/2018						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
7/9/2018					<0.005			0.0019 (J)	
7/10/2018		0.0016 (J)	0.00063 (J)	0.0031 (J)					0.09
7/11/2018	<0.005					<0.005	<0.005		
1/16/2019	<0.005	0.0011 (J)	<0.005	0.0023 (J)	<0.005		<0.005	0.0016 (J)	
1/17/2019						<0.005			0.13
1/18/2019									
1/21/2019									
3/25/2019	0.0029 (J)				<0.005				
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)			0.00058 (J)	0.0023 (J)	0.1
3/27/2019						<0.005			
7/30/2019									
8/26/2019	0.0041 (J)				<0.005				
8/27/2019			0.0035 (J)	0.0022 (J)		<0.005	<0.005	0.0017 (J)	0.17
8/28/2019		0.0023 (J)							
10/7/2019					<0.005				
10/8/2019	0.003 (J)						<0.005	0.0017 (J)	0.13
10/9/2019		0.0053 (J)	0.0018 (J)	0.0042 (J)		<0.005			
4/6/2020	<0.005				0.00045 (J)				
4/7/2020		0.0011 (J)	<0.005	0.027		<0.005		0.0018 (J)	0.24
4/8/2020							<0.005		
8/17/2020					<0.005	<0.005	<0.005		
8/18/2020								0.0012 (J)	0.28
8/19/2020	0.006 (J)	0.0019 (J)	0.0036 (J)	0.007					
9/28/2020	<0.005			0.0058	<0.005		<0.005		
9/29/2020						<0.005		<0.005	
9/30/2020		0.0017 (J)	0.004 (J)						0.24
10/1/2020									
3/10/2021		0.0019 (J)	0.0054	0.0055		<0.005			
3/11/2021	0.0047 (J)								
3/12/2021					<0.005				0.16
3/15/2021							<0.005		
3/16/2021								<0.005	
9/21/2021	<0.005	<0.005	0.0054		<0.005	<0.005	<0.005		
9/22/2021								0.0014 (J)	
9/23/2021				0.0048 (J)					0.21
1/31/2022	<0.005				<0.005				
2/1/2022									
2/2/2022			0.01					0.0036 (J)	
2/3/2022		0.0029 (J)		0.0057		0.0016 (J)	0.0025 (J)		0.23
8/30/2022	0.00321 (J)	0.00253 (J)	0.00716		<0.005	<0.005		<0.005	
8/31/2022							<0.005		0.259
9/1/2022				0.00568					

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
9/29/2000	0.094	<0.005	<0.005	<0.005				
11/21/2000	0.059	<0.005	<0.005	<0.005	<0.005			
1/20/2001	0.087	<0.005	<0.005	0.01	<0.005			
3/14/2001	0.075	<0.005	<0.005	<0.005	<0.005			
7/16/2001	0.11	<0.005	<0.005	<0.005	<0.005			
11/1/2001	0.098	<0.005	<0.005	<0.005	<0.005			
4/25/2002	0.071	<0.005	<0.005	<0.005	<0.005			
11/20/2002	0.15	<0.005	0.0096	<0.005	<0.005			
6/6/2003	1.2 (O)	<0.005	0.0076	<0.005	<0.005			
12/12/2003	0.27 (O)	<0.005	0.0058	<0.005	<0.005			
5/26/2004	0.12	<0.005	0.0068	<0.005	<0.005			
12/7/2004	0.098	<0.005	0.0066	<0.005	<0.005			
6/21/2005	0.065	<0.005	<0.005	<0.005	<0.005			
12/12/2005	0.081	<0.005	<0.005	<0.005	<0.005			
4/4/2006	0.077							
6/27/2006	0.071	<0.005	<0.005	<0.005	<0.005			
8/30/2006	0.08							
12/4/2006	0.085	<0.005	<0.005	<0.005	<0.005			
2/15/2007	0.09							
6/23/2007	0.12	<0.005	<0.005	<0.005	<0.005			
9/11/2007	0.088							
12/11/2007	0.088	<0.005	<0.005	<0.005	<0.005			
3/11/2008	0.071							
6/23/2008				<0.005				
6/24/2008	0.097	<0.005	0.005		<0.005			
11/3/2008	0.089							
12/4/2008				<0.005	<0.005			
12/5/2008	0.092	<0.005	<0.005					
3/25/2009	0.095							
7/7/2009			<0.005					
7/8/2009	0.11	<0.005		<0.005	<0.005			
9/14/2009	0.099							
12/20/2009	0.1				<0.005			
12/21/2009		<0.005	<0.005	<0.005				
3/4/2010	0.074							
6/20/2010				<0.005	<0.005			
6/21/2010	0.056	<0.005	0.018 (O)			0.29	<0.005	0.013 (O)
9/14/2010	0.067							
1/6/2011					<0.005			
1/7/2011	0.066	<0.005	<0.005	<0.005		0.2	<0.005	<0.005
4/15/2011	0.08							
7/7/2011	0.054					<0.005		
7/8/2011		<0.005	<0.005	<0.005		0.19	<0.005	<0.005
9/25/2011	0.085							
1/17/2012					<0.005			
1/18/2012	0.089	<0.005	<0.005	<0.005		0.058	<0.005	<0.005
4/4/2012	0.0473							
7/9/2012					<0.005			
7/10/2012	0.07	<0.005	0.0052	<0.005		0.18	<0.005	<0.005
10/9/2012	0.088							
1/17/2013					<0.005			
1/18/2013	0.063	<0.005	<0.005	<0.005		0.22	<0.005	0.0061

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
4/5/2013	0.06							
7/16/2013								
7/17/2013	0.063	<0.005	<0.005	<0.005	<0.005	0.45	<0.005	<0.005
10/11/2013	0.059							
1/13/2014					<0.005			
1/14/2014	0.077	<0.005	<0.005	<0.005		0.52	<0.005	0.006
4/3/2014	0.091							
7/8/2014								
7/9/2014	0.08	<0.005	0.0023 (J)	<0.005	<0.005			<0.005
7/10/2014						0.4	0.0027 (J)	
10/24/2014	0.073							
1/12/2015			0.0028 (J)			0.43		
1/13/2015					<0.005			
1/14/2015	0.079	<0.005		<0.005			<0.005	<0.005
5/10/2015								
5/11/2015	0.058							
7/16/2015	0.068		<0.005		<0.005			
7/17/2015				<0.005				<0.005
7/18/2015		<0.005				0.26	<0.005	
10/6/2015	0.078							
1/17/2016	0.089				<0.005	0.34		0.0065
1/18/2016		<0.005	<0.005	<0.005			<0.005	
4/26/2016	0.0731							
7/26/2016								
7/27/2016					<0.005			
7/28/2016	0.0627			<0.005		0.209		<0.005
7/29/2016		0.0009 (J)	0.0014 (J)				0.002 (J)	
8/30/2016								
8/31/2016				<0.005	<0.005		0.0017 (J)	
9/1/2016	0.0551	<0.005	0.0033 (J)			0.215		0.0039 (J)
10/24/2016								
10/25/2016	0.0466					0.307		<0.005
10/26/2016		<0.005	0.0016 (J)		<0.005		<0.005	
10/27/2016				<0.005				
1/3/2017								
1/4/2017	0.0444					0.311	<0.005	<0.005
1/5/2017		<0.005			<0.005			
1/6/2017			<0.005	<0.005				
4/3/2017								
4/4/2017			0.0021 (J)		<0.005	0.317		0.0031 (J)
4/5/2017	0.0591	0.0011 (J)						
4/6/2017				<0.005			0.0006 (J)	
7/10/2017								
7/11/2017						0.299	0.0012 (J)	
7/12/2017	0.0776		0.0015 (J)	<0.005				
7/13/2017		0.0016 (J)			<0.005			<0.005
10/2/2017						0.216		
10/3/2017	0.0813				<0.005			<0.005
10/4/2017		0.0019 (J)	0.0018 (J)	<0.005			0.0025 (J)	
1/9/2018								0.0033 (J)
1/10/2018	0.085				0.0006 (J)	0.347		
1/11/2018		0.0015 (J)	0.0015 (J)	<0.005			0.0006 (J)	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
7/9/2018						0.37		
7/10/2018	0.067				<0.005			0.0027 (J)
7/11/2018		0.00082 (J)	0.00095 (J)	<0.005			0.0011 (J)	
1/16/2019		<0.005	0.0024 (J)					
1/17/2019	0.079							0.0022 (J)
1/18/2019				<0.005			<0.005	
1/21/2019					<0.005	0.44		
3/25/2019			0.0029 (J)			0.41		
3/26/2019	0.089	0.0015 (J)						0.0045 (J)
3/27/2019				<0.005			<0.005	
7/30/2019					0.00039 (J)			
8/26/2019								
8/27/2019			0.0023 (J)		<0.005		0.00044 (J)	
8/28/2019	0.091	0.0011 (J)		<0.005		0.43		0.002 (J)
10/7/2019								
10/8/2019	0.088							0.0028 (J)
10/9/2019		0.0011 (J)	0.0024 (J)	<0.005	<0.005	0.35	<0.005	
4/6/2020								
4/7/2020	0.091		0.0027 (J)				0.00043 (J)	<0.005
4/8/2020		0.0013 (J)		0.00084 (J)	0.00094 (J)	0.33		
8/17/2020								
8/18/2020	0.045	<0.005			<0.005	0.3	<0.005	0.0059
8/19/2020			0.0033 (J)	<0.005				
9/28/2020								
9/29/2020					<0.005			
9/30/2020	0.044	0.0012 (J)				0.31	<0.005	0.0029 (J)
10/1/2020			0.0027 (J)	<0.005				
3/10/2021			0.0025 (J)	<0.005			<0.005	
3/11/2021		0.0009 (J)						
3/12/2021						0.27		
3/15/2021					<0.005			
3/16/2021	0.064							0.0098
9/21/2021			0.0027 (J)				<0.005	
9/22/2021	0.081	<0.005		<0.005	<0.005	0.23		<0.005
9/23/2021								
1/31/2022								
2/1/2022	0.095	<0.005				0.22		0.02
2/2/2022			0.0036 (J)	<0.005	<0.005			
2/3/2022							<0.005	
8/30/2022			0.0049 (J)			0.465		0.0271
8/31/2022		<0.005					<0.005	
9/1/2022	0.0987			<0.005	<0.005			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
9/29/2000	0.11	0.11	<0.005	0.076	0.075	0.1	0.16	0.044	0.16
11/21/2000	0.12	0.15	0.01	0.075	0.072	0.082	0.17	0.047	0.21
1/20/2001	0.11	0.1	<0.005	0.053	0.086	0.083	0.16	0.051	0.23
3/14/2001	0.11	0.095	0.01	0.055	0.088	0.075	0.17	0.048	0.22
7/16/2001	0.11	0.28 (O)	<0.005	0.041	0.084	0.091	0.19	0.054	0.22
11/1/2001	0.11	0.16	<0.005	0.045	0.13	0.068	0.18	0.063	0.23
4/25/2002	0.058	0.054	<0.005	0.055	0.24 (O)	0.066	0.15	0.032	0.15
6/6/2003	0.19	0.063	0.028	0.48 (O)	0.28 (O)	0.085	0.13	0.046	0.13
12/12/2003	0.1	0.041	0.019	0.13 (O)	0.27 (O)	0.072	0.18	0.034	0.034
5/26/2004	0.084	0.059	<0.005	0.055	0.31 (O)	0.055	0.17	0.035	0.13
12/7/2004	0.094	0.076	0.009	0.072	0.46 (O)	0.066	0.19	0.024	0.13
6/21/2005	0.089	0.042	0.0089	0.061	0.053	0.033	0.18	0.039	0.07
12/12/2005	0.089	0.048	0.026	0.047	0.1	0.034	0.17	0.042	0.04
4/4/2006		0.05		0.042					
6/27/2006	0.096	0.036	0.029	0.042	0.098	0.029	0.17	0.033	0.041
8/30/2006		0.059		0.05					
12/4/2006	0.092	0.062	0.017	0.044	0.068	0.02	0.21	0.04	0.048
2/15/2007		0.079		0.041					
6/23/2007	0.08	0.03	0.014	0.044	0.042	0.017	0.17	0.044	0.12
9/11/2007		0.053		0.04					
12/11/2007	0.067	0.075	0.011	0.0035	0.04	0.013	0.18	0.049	0.12
3/11/2008		0.052		0.034					
6/23/2008	0.056		0.018		0.041	0.012			
6/24/2008		0.039		0.042			0.14	0.038	0.17
11/3/2008		0.082		0.049					
12/4/2008	0.054	0.079	0.019		0.035	0.011			
12/5/2008				0.05			0.19	0.06	0.093
3/25/2009		0.093		0.052					
7/7/2009	0.034							0.043	0.06
7/8/2009		0.039	0.011	0.046	0.036	0.012	0.2		
9/14/2009		0.061		0.048					
12/20/2009	0.034	0.088		0.062				0.065	
12/21/2009			0.01		0.028	0.011	0.23		0.11
3/4/2010		0.077		0.058					
6/20/2010	0.062	0.075	0.0081		0.025	0.0089		0.095	0.11
6/21/2010				0.041			0.25		
9/14/2010		0.093		0.036					
1/6/2011			0.012			0.014		0.093	
1/7/2011	0.039	0.13		0.054	0.037		0.21		0.025
4/15/2011		0.086		0.049					
7/7/2011	0.036	0.051	0.015	0.063	0.039	0.018		0.095	0.025
7/8/2011							0.13		
9/25/2011		0.056		0.037					
1/17/2012	0.041	0.052	0.0086		0.045	0.23		0.1	
1/18/2012				0.034			0.26		0.03
4/4/2012		0.0519		0.0446					
7/9/2012	0.15	0.048	0.01		0.032	0.17		0.11	
7/10/2012				0.033			0.19		0.028
10/9/2012		0.065		0.041					
1/17/2013			0.014		0.033	0.2		0.12	
1/18/2013	0.15	0.045		0.036			0.17		0.058
4/5/2013		0.047		0.036					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
7/16/2013			0.012		0.027	0.11		0.081	
7/17/2013	0.13	0.032		0.054			0.18		0.086
10/11/2013		0.028		0.052					
1/13/2014	0.16		0.015		0.027	0.083		0.096	
1/14/2014		0.036		0.051			0.18		0.1
4/3/2014		0.038		0.047					
7/8/2014			0.017		0.037	0.066			
7/9/2014	0.11	0.03		0.08			0.16	0.066	0.082
7/10/2014									
10/24/2014		0.025		0.072					
1/12/2015									
1/13/2015	0.083		0.019		0.023	0.053		0.068	
1/14/2015		0.04		0.047			0.16		0.094
5/10/2015		0.026							
5/11/2015				0.053					
7/16/2015	0.094		0.022	0.059	0.03	0.052		0.07	
7/17/2015		0.029							0.11
7/18/2015							0.012		
10/6/2015		0.03		0.053					
1/17/2016		0.038		0.056				0.062	
1/18/2016	0.22		0.026		0.032		0.13		0.11
1/19/2016						0.048			
4/26/2016		0.025		0.0721					
7/26/2016			0.0236			0.051			
7/27/2016	0.192	0.0248			0.0191			0.0417	
7/28/2016				0.0534					0.105
7/29/2016							0.181		
8/30/2016								0.0545	0.106
8/31/2016			0.0273		0.019	0.0565			
9/1/2016	0.415 (O)	0.0346		0.0445			0.203		
10/24/2016									
10/25/2016	0.173	0.0248		0.0464				0.0504	
10/26/2016			0.0238		0.0197	0.0591	0.177		0.107
10/27/2016									
1/3/2017									
1/4/2017				0.0379	0.0174	0.0598		0.0534	
1/5/2017		0.0245	0.0218				0.142		0.107
1/6/2017	0.167								
4/3/2017									
4/4/2017		0.0342						0.0549	
4/5/2017				0.0534	0.0174		0.106		
4/6/2017	0.136		0.0204			0.0813			0.111
7/10/2017					0.0172				
7/11/2017		0.0276				0.0302			
7/12/2017			0.0161	0.0944				0.0614	0.106
7/13/2017	0.0891						0.0686		
10/2/2017		0.0274							
10/3/2017				0.135 (O)		0.103		0.0436	0.105
10/4/2017	0.113		0.0185		0.0162		0.0589		
1/9/2018	0.0901	0.0222							0.0969
1/10/2018			0.0166	0.0603				0.053	
1/11/2018					0.018	0.166	0.0412		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
7/9/2018		0.026							
7/10/2018				0.16 (O)				0.059	0.087
7/11/2018	0.065		0.019		0.014	0.12	0.049		
1/16/2019	0.062	0.028	0.019				0.063	0.054	0.013 (J)
1/17/2019				0.13	0.017	0.039			
1/18/2019									
1/21/2019									
3/25/2019	0.054								
3/26/2019		0.034	0.026	0.14			0.025	0.055	0.012 (J)
3/27/2019					0.017	0.053			
7/30/2019									
8/26/2019	0.11								
8/27/2019		0.067	0.024		0.017	0.12		0.054	0.013
8/28/2019				0.09			0.026		
10/7/2019									
10/8/2019	0.1	0.085	0.024	0.13		0.13			
10/9/2019					0.019		0.032	0.058	0.014 (J)
4/6/2020	0.072								
4/7/2020		0.073		0.13	0.017	0.14		0.05	0.01 (J)
4/8/2020			0.027				0.055		
8/17/2020			0.024		0.018				
8/18/2020		0.028		0.32		0.12	0.074		
8/19/2020	0.1							0.057	0.064
9/28/2020	0.095		0.029					0.051	
9/29/2020		0.026			0.018	0.14			
9/30/2020				0.14			0.035		0.092
10/1/2020									
3/10/2021					0.028	0.13		0.052	0.027
3/11/2021	0.07						0.044		
3/12/2021									
3/15/2021			0.034						
3/16/2021		0.037		0.16					
9/21/2021	0.073		0.037		0.023	0.12			0.077
9/22/2021		0.11		0.26			0.058		
9/23/2021								0.062	
1/31/2022	0.1								
2/1/2022				0.23			0.055		
2/2/2022		0.1							0.026
2/3/2022			0.038		0.025	0.17		0.051	
8/30/2022	0.133	0.0773			0.0275				0.0266
8/31/2022			0.0379			0.115	0.0375		
9/1/2022				0.165				0.0583	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-21	GWC-22	GWC-20
9/29/2000	0.22	0.16	0.093	0.16	0.028				
11/21/2000	0.13	0.16	0.095		0.035	0.046			
1/20/2001	0.19	0.21	0.089	0.18	0.032	0.036			
3/14/2001	0.27	0.18	0.088	0.14	0.036	0.03			
7/16/2001	0.37	0.18	0.096	0.14	0.036	0.032			
11/1/2001	0.61 (O)	0.15	0.094	0.14	0.036	0.029			
4/25/2002	0.19	0.16	0.085	0.088	0.045	0.021			
6/6/2003	0.72 (O)	0.29	0.09	0.14	0.083 (O)	0.032			
12/12/2003	0.054	0.18	0.084	0.13	0.094 (O)	0.021			
5/26/2004	0.18	0.16	0.08	0.09	0.034	0.035			
12/7/2004	0.24	0.16	0.098	0.11	0.042	0.031			
6/21/2005	0.2	0.15	0.084	0.084	0.039	0.028			
12/12/2005	0.074	0.15	0.07	0.1	0.043	0.024			
4/4/2006				0.089					
6/27/2006	0.075	0.19	0.083	0.1	0.031	0.03			
8/30/2006				0.12					
12/4/2006	0.092	0.26	0.072	0.086	0.043	0.031			
2/15/2007				0.088					
6/23/2007	0.089	0.24	0.087	0.089	0.031	0.037			
9/11/2007				0.092					
12/11/2007	0.072	0.21	0.082	0.077	0.044	0.034			
3/11/2008				0.082					
6/23/2008			0.1	0.086					
6/24/2008	0.049	0.13			0.057	0.038			
11/3/2008				0.088					
12/4/2008			0.12	0.081		0.038			
12/5/2008	0.067	0.12			0.041				
3/25/2009				0.069					
7/7/2009	0.04	0.17		0.078					
7/8/2009			0.14		0.058	0.053			
9/14/2009				0.079					
12/20/2009				0.081	0.062	0.047			
12/21/2009	0.044	0.2	0.15						
3/4/2010				0.065					
6/20/2010	0.036		0.21	0.078	0.03	0.046			
6/21/2010		0.22					0.16	0.11	0.062
9/14/2010				0.076					
1/6/2011	0.075					0.063			
1/7/2011		0.12	0.2	0.074	0.049		0.095	0.12	0.039
4/15/2011				0.065					
7/7/2011	0.13			0.081	0.05				0.06
7/8/2011		0.15	0.18				0.1	0.094	0.043
9/25/2011				0.078					
1/17/2012	0.21			0.082	0.044	0.06			
1/18/2012		0.15	0.18				0.12	0.087	0.042
4/4/2012				0.0861					
7/9/2012	0.2				0.045	0.05			
7/10/2012		0.14	0.16	0.082			0.097	0.1	0.039
10/9/2012				0.09					
1/17/2013	0.19					0.058			
1/18/2013		0.15	0.19	0.083	0.049		0.1	0.078	0.04
4/5/2013				0.078					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-21	GWC-22	GWC-20
7/16/2013	0.076								
7/17/2013		0.14	0.17	0.083	0.039	0.041	0.069	0.062	0.055
10/11/2013				0.078					
1/13/2014	0.14				0.038	0.058			
1/14/2014		0.16	0.2	0.081			0.086	0.073	0.059
4/3/2014				0.077					
7/8/2014									
7/9/2014	0.12	0.12	0.16	0.073	0.031	0.048	0.065		
7/10/2014								0.13	0.067
10/24/2014				0.087					
1/12/2015		0.13							0.061
1/13/2015	0.13				0.041	0.048			
1/14/2015			0.17	0.079			0.084	0.065	
5/10/2015				0.076					
5/11/2015									
7/16/2015	0.12	0.11			0.041	0.048			
7/17/2015			0.18	0.061			0.071		
7/18/2015								0.073	0.13
10/6/2015				0.067					
1/17/2016					0.048	0.049	0.079		0.08
1/18/2016	0.12	0.095	0.2	0.068				0.062	
1/19/2016									
4/26/2016				0.0596					
7/26/2016									
7/27/2016	0.112				0.0487	0.0796			
7/28/2016			0.234	0.0701			0.0626		0.164
7/29/2016		0.0883						0.0575	
8/30/2016	0.135			0.0687					
8/31/2016			0.284			0.0429		0.0693	
9/1/2016		0.123			0.0403		0.077		0.0976
10/24/2016				0.07					
10/25/2016					0.0329		0.0217		0.0702
10/26/2016	0.103	0.0863				0.113 (O)		0.0966	
10/27/2016			0.244						
1/3/2017	0.118			0.061					
1/4/2017							0.0617	0.0975	0.0999
1/5/2017					0.0392	0.0526			
1/6/2017		0.0758	0.305						
4/3/2017				0.0612	0.0439				
4/4/2017		0.091				0.0503	0.0761		0.136
4/5/2017									
4/6/2017	0.162		0.249					0.064	
7/10/2017									
7/11/2017				0.0624	0.051			0.0778	0.145
7/12/2017	0.157	0.0941	0.256						
7/13/2017						0.0529	0.0428		
10/2/2017				0.0618	0.047				0.148
10/3/2017	0.127					0.057	0.0376		
10/4/2017		0.0994	0.356					0.156	
1/9/2018				0.0574	0.0431		0.0704		
1/10/2018	0.158					0.0527			0.0788
1/11/2018		0.088	0.226					0.0702	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-21	GWC-22	GWC-20
7/9/2018				0.056					0.087
7/10/2018	0.31				0.047	0.054	0.061		
7/11/2018		0.071	0.29					0.12	
1/16/2019	0.054	0.083		0.062					
1/17/2019					0.042		0.061		
1/18/2019			0.21					0.052	
1/21/2019						0.05			0.069
3/25/2019		0.077		0.064					0.085
3/26/2019	0.057				0.047		0.084		
3/27/2019			0.19					0.057	
7/30/2019						0.052			
8/26/2019				0.065					
8/27/2019		0.076			0.049	0.053		0.097	
8/28/2019	0.1		0.17				0.063		0.078
10/7/2019				0.069					
10/8/2019					0.057		0.079		
10/9/2019	0.13	0.076	0.18			0.05		0.065	0.078
4/6/2020				0.057					
4/7/2020	0.098	0.09			0.033		0.054	0.1	
4/8/2020			0.15			0.061			0.19
8/17/2020				0.051					
8/18/2020					0.03	0.05	0.18	0.085	0.38
8/19/2020	0.1	0.076	0.17						
9/28/2020				0.05					
9/29/2020						0.049			
9/30/2020	0.16				0.034		0.19	0.045	0.35
10/1/2020		0.077	0.15						
3/10/2021	0.096	0.07	0.15					0.049	
3/11/2021									
3/12/2021				0.052	0.038				0.34
3/15/2021						0.053			
3/16/2021							0.18		
9/21/2021	0.076	0.098		0.049				0.036	
9/22/2021			0.15			0.047	0.046		0.42
9/23/2021					0.062				
1/31/2022				0.051					
2/1/2022							0.24		0.36
2/2/2022		0.17	0.15			0.052			
2/3/2022	0.062				0.061			0.038	
8/30/2022	0.051	0.134		0.0512			0.191		0.21
8/31/2022					0.055			0.0741	
9/1/2022			0.151			0.0508			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWC-13	GWB-6R	GWB-4R	GWC-14	GWC-12	GWC-17	GWB-5R
9/29/2000	<0.01	<0.01	<0.01	0.016	0.021	<0.01	<0.01	<0.01	0.03
11/21/2000	<0.01	<0.01	<0.01	0.023	0.017	<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	<0.01	<0.01	0.025	0.03	<0.01	<0.01	<0.01	0.028
3/14/2001	<0.01	<0.01	<0.01	0.021	0.019	<0.01	<0.01	<0.01	0.052 (O)
7/16/2001	<0.01	<0.01	<0.01	0.019	0.029	<0.01	<0.01	<0.01	0.08 (O)
11/1/2001	<0.01	<0.01	<0.01	0.022	0.021	<0.01	<0.01	<0.01	0.13 (O)
4/25/2002	<0.01	<0.01	<0.01	0.019	0.03	<0.01	<0.01	<0.01	0.021
11/20/2002		0.014	<0.01	0.024	0.038	0.014	0.002	<0.01	0.053 (O)
6/6/2003	0.037	<0.01	0.003	0.021	0.028	<0.01	<0.01	<0.01	0.064 (O)
12/12/2003	0.0044	<0.01	<0.01	0.0066	0.027	<0.01	<0.01	0.036 (O)	<0.01
5/26/2004	<0.01	<0.01	<0.01	0.013	0.021	<0.01	<0.01	<0.01	0.012
12/7/2004	<0.01	0.0039	<0.01	0.013	0.016	<0.01	<0.01	0.0021	0.019
6/21/2005	<0.01	0.002	<0.01	0.0067	0.015	<0.01	<0.01	<0.01	0.02
12/12/2005	<0.01	<0.01	<0.01	0.0033	0.022	<0.01	<0.01	<0.01	<0.01
4/4/2006						<0.01			
6/27/2006	<0.01	<0.01	<0.01	0.0047	0.027	<0.01	<0.01	<0.01	0.0015
8/30/2006						<0.01			
12/4/2006	0.0015	0.0019	0.0017	0.0084	0.025	0.0042	0.0032	<0.01	0.0034
2/15/2007						<0.01			
6/23/2007	<0.01	0.0015	<0.01	0.01	0.023	<0.01	<0.01	<0.01	<0.01
9/11/2007						<0.01			
12/11/2007	0.0016	<0.01	<0.01	0.0049	0.018	<0.01	<0.01	<0.01	<0.01
3/11/2008						<0.01			
6/23/2008	0.0019	0.0015	<0.01				0.0016		
6/24/2008				0.032 (O)	0.022	<0.01		<0.01	<0.01
11/3/2008						<0.01			
12/4/2008	<0.01	<0.01	<0.01			<0.01	<0.01		
12/5/2008				0.009	0.023			<0.01	0.0016
3/25/2009						<0.01			
7/7/2009	0.0037			0.0044	0.012				<0.01
7/8/2009		<0.01	<0.01			<0.01	<0.01	<0.01	
9/14/2009						<0.01			
12/20/2009	0.0016					<0.01			
12/21/2009		<0.01	<0.01	0.0055	0.019		<0.01	<0.01	<0.01
3/4/2010						<0.01			
6/20/2010	<0.01	0.0015	<0.01	0.002		<0.01	<0.01		<0.01
6/21/2010					0.01			<0.01	
9/14/2010						<0.01			
1/6/2011			<0.01						0.0017
1/7/2011	0.0033	<0.01		0.0039	0.023	0.0016	<0.01	<0.01	
4/15/2011						0.0034			
7/7/2011	0.0044		0.0019	0.0031		<0.01	<0.01		0.008
7/8/2011		<0.01			0.017			0.0013	
9/25/2011						0.0013			
1/17/2012	0.0038		<0.01			<0.01	<0.01		0.0082
1/18/2012		<0.01		0.0023	0.0114			<0.01	
4/4/2012						<0.01			
7/9/2012	0.022		<0.01			<0.01	<0.01		0.01
7/10/2012		<0.01		0.0022	0.014			<0.01	
10/9/2012						0.0019			
1/17/2013			<0.01				<0.01		0.01
1/18/2013	0.034	<0.01		<0.01	0.015	0.0017		<0.01	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWC-13	GWB-6R	GWB-4R	GWC-14	GWC-12	GWC-17	GWB-5R
4/5/2013						0.0019			
7/16/2013			<0.01				<0.01		0.0061
7/17/2013	0.032	<0.01		<0.01	0.011	0.0017		<0.01	
10/11/2013						0.0013			
1/13/2014	0.04		<0.01				<0.01		0.002
1/14/2014		<0.01		0.0013	0.019	0.001		<0.01	
4/3/2014						0.0031			
7/8/2014			<0.01				<0.01		
7/9/2014	0.036	0.0011 (J)		<0.01	0.012	0.0012 (J)		<0.01	<0.01
7/10/2014									
10/24/2014						<0.01			
1/12/2015					0.016				
1/13/2015	0.03		<0.01				<0.01		<0.01
1/14/2015		<0.01		0.0015		0.0013		<0.01	
5/10/2015						<0.01			
5/11/2015									
7/16/2015	0.039		<0.01		0.0084		0.001 (J)		<0.01
7/17/2015		0.0013		0.0011 (J)		0.001 (J)			
7/18/2015								<0.01	
10/6/2015						<0.01			
1/17/2016						0.0012 (J)			
1/18/2016	0.068	<0.01	<0.01	0.0011 (J)	0.014		<0.01	<0.01	<0.01
1/19/2016									
4/26/2016						<0.01			
7/26/2016			<0.01						
7/27/2016	0.05					0.0008 (J)	0.0014 (J)		0.0006 (J)
7/28/2016		0.0011 (J)		0.001 (J)					
7/29/2016					0.0077 (J)			0.0009 (J)	
8/30/2016				0.0013 (J)					<0.01
8/31/2016		0.0024 (J)	0.0011 (J)				0.0012 (J)		
9/1/2016	0.119 (O)				0.015	0.0015 (J)		0.0011 (J)	
10/24/2016									
10/25/2016	0.0519					<0.01			
10/26/2016			<0.01	0.0014 (J)	0.0106		0.0012 (J)	<0.01	<0.01
10/27/2016		<0.01							
1/3/2017									0.001 (J)
1/4/2017							0.0012 (J)		
1/5/2017			<0.01	0.002 (J)		0.001 (J)		0.0012 (J)	
1/6/2017	0.0536	<0.01				0.0098 (J)			
4/3/2017									
4/4/2017					0.0101	0.001 (J)			
4/5/2017							0.0013 (J)	0.0015 (J)	
4/6/2017	0.0447 (J)	0.0019 (J)	0.0011 (J)	0.0034 (J)					0.0013 (J)
7/10/2017							0.0014 (J)		
7/11/2017						0.0008 (J)			
7/12/2017		0.0011 (J)	0.0007 (J)	0.0024 (J)	0.0096 (J)				0.0011 (J)
7/13/2017	0.0269							0.0012 (J)	
10/2/2017						0.0009 (J)			
10/3/2017				0.0022 (J)					0.0012 (J)
10/4/2017	0.0378	0.0011 (J)	0.0008 (J)		0.0097 (J)		0.0011 (J)	0.0055 (J)	
1/9/2018	0.0283 (J)			0.0019 (J)		0.0006 (J)			
1/10/2018			0.0007 (J)						0.0016 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWC-13	GWB-6R	GWB-4R	GWC-14	GWC-12	GWC-17	GWB-5R
1/11/2018		0.001 (J)			0.0109		0.001 (J)	0.0009 (J)	
7/9/2018						<0.01			
7/10/2018				0.0023 (J)					0.0055 (J)
7/11/2018	0.018 (J)	<0.01	0.0019 (J)		0.0055 (J)		<0.01	<0.01	
1/16/2019	0.018 (J)		<0.01	0.018 (J)	0.0024 (J)	<0.01		<0.01	<0.01
1/17/2019							0.0028 (J)		
1/18/2019		<0.01							
1/21/2019									
3/25/2019	0.017 (J)				0.002 (J)				
3/26/2019			<0.01	0.017 (J)		<0.01		<0.01	0.072
3/27/2019		<0.01					<0.01		
7/30/2019									
8/26/2019	0.024 (J)								
8/27/2019			<0.01	0.0097 (J)	0.0027 (J)	0.001 (J)	0.00085 (J)		
8/28/2019		0.00089 (J)						0.0013 (J)	0.0071 (J)
10/7/2019									
10/8/2019	0.021 (J)		<0.01			0.00053 (J)			
10/9/2019		0.0009 (J)		0.011 (J)	0.002 (J)		0.00081 (J)	0.00081 (J)	0.012 (J)
4/6/2020	0.015 (J)								
4/7/2020				0.0094 (J)	0.0028 (J)	0.00074 (J)	0.00082 (J)		0.0022 (J)
4/8/2020		0.0015 (J)	0.00058 (J)					0.00073 (J)	
8/17/2020			0.00077 (J)				0.001 (J)		
8/18/2020						0.00059 (J)		0.0011 (J)	
8/19/2020	0.015 (J)	0.0013 (J)		0.0037 (J)	0.0022 (J)				0.0012 (J)
9/28/2020	0.014 (J)		0.00062 (J)						
9/29/2020						<0.01	0.00085 (J)		
9/30/2020				0.0045 (J)				0.00096 (J)	0.0018 (J)
10/1/2020		0.0012 (J)			0.002 (J)				
3/10/2021		0.0011 (J)		0.006	0.003 (J)		0.00091 (J)		0.001 (J)
3/11/2021	0.02 (J)							0.0009 (J)	
3/12/2021									
3/15/2021			<0.01						
3/16/2021						<0.01			
9/21/2021	0.013 (J)		<0.01	0.0035 (J)	0.0018 (J)		<0.01		<0.01
9/22/2021		<0.01				<0.01		<0.01	
9/23/2021									
1/31/2022	0.015 (J)								
2/1/2022								0.0014 (J)	
2/2/2022		0.0012 (J)		0.0033 (J)	0.003 (J)	<0.01			
2/3/2022			<0.01				0.0018 (J)		0.0014 (J)
8/30/2022	0.0129			0.00356 (J)	<0.01	<0.01	<0.01		<0.01
8/31/2022			<0.01					<0.01	
9/1/2022		<0.01							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-15	GWC-11	GWA-8 (bg)	GWC-1	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	<0.01	<0.01	<0.01	<0.01	<0.01				
11/21/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
1/20/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
4/25/2002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
11/20/2002	0.0041	0.0058	0.006	0.0051	<0.01	<0.01			
6/6/2003	0.063 (O)	0.0068	0.0082	0.014	0.005	<0.01			
12/12/2003	0.0059	0.0041	0.0023	0.011	<0.01	<0.01			
5/26/2004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
12/7/2004	<0.01	0.0026	<0.01	<0.01	<0.01	<0.01			
6/21/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
12/12/2005	<0.01	<0.01	<0.01	<0.01	0.002	<0.01			
4/4/2006	<0.01			<0.01					
6/27/2006	<0.01	0.0013	<0.01	<0.01	<0.01	<0.01			
8/30/2006	<0.01			<0.01					
12/4/2006	0.0036	<0.01	0.0021	<0.01	<0.01	<0.01			
2/15/2007	<0.01			<0.01					
6/23/2007	0.0016	<0.01	0.0017	<0.01	<0.01	<0.01			
9/11/2007	<0.01			<0.01					
12/11/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
3/11/2008	<0.01			<0.01					
6/23/2008			<0.01	<0.01					
6/24/2008	<0.01	0.0014			<0.01	<0.01			
11/3/2008	0.0025			<0.01					
12/4/2008			<0.01	<0.01		<0.01			
12/5/2008	<0.01	<0.01			<0.01				
3/25/2009	<0.01			<0.01					
7/7/2009				<0.01	0.0013				
7/8/2009	<0.01	<0.01	<0.01			<0.01			
9/14/2009	<0.01			<0.01					
12/20/2009	<0.01	<0.01		<0.01	<0.01	<0.01			
12/21/2009			<0.01						
3/4/2010	<0.01			<0.01					
6/20/2010		<0.01	<0.01	<0.01	<0.01	<0.01			
6/21/2010	<0.01						<0.01	0.0019	<0.01
9/14/2010	<0.01			<0.01					
1/6/2011			<0.01		<0.01	<0.01			
1/7/2011	0.0018	<0.01		<0.01			0.0018	0.0017	<0.01
4/15/2011	<0.01			<0.01					
7/7/2011	<0.01	<0.01	0.0023	<0.01	<0.01		<0.01		
7/8/2011							0.0019	0.0023	<0.01
9/25/2011	<0.01			0.0021					
1/17/2012		<0.01	<0.01	<0.01	<0.01	<0.01			
1/18/2012	<0.01						<0.01	<0.01	<0.01
4/4/2012	<0.01			<0.01					
7/9/2012		<0.01	0.0017		<0.01	<0.01			
7/10/2012	<0.01			<0.01			0.0013	<0.01	<0.01
10/9/2012	0.0018			<0.01					
1/17/2013			<0.01		<0.01	<0.01			
1/18/2013	<0.01	<0.01		<0.01			0.0015	<0.01	<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-15	GWC-11	GWA-8 (bg)	GWC-1	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013	<0.01			<0.01					
7/16/2013			<0.01		<0.01				
7/17/2013	<0.01	<0.01		<0.01		<0.01	<0.01	0.0019	<0.01
10/11/2013	<0.01			<0.01					
1/13/2014		<0.01	<0.01		<0.01	<0.01			
1/14/2014	<0.01			<0.01			0	<0.01	<0.01
4/3/2014	<0.01			<0.01					
7/8/2014			<0.01						
7/9/2014	<0.01	<0.01		<0.01	0.0011 (J)	<0.01		<0.01	
7/10/2014							<0.01		<0.01
10/24/2014	<0.01			<0.01					
1/12/2015							<0.01		
1/13/2015		<0.01	<0.01		<0.01	<0.01			
1/14/2015	<0.01			<0.01				<0.01	<0.01
5/10/2015				<0.01					
5/11/2015	<0.01								
7/16/2015	<0.01	<0.01	<0.01		0.0011 (J)	<0.01			
7/17/2015				<0.01				<0.01	
7/18/2015							<0.01		<0.01
10/6/2015	<0.01			<0.01					
1/17/2016	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01	
1/18/2016				<0.01					<0.01
1/19/2016			<0.01						
4/26/2016	<0.01			<0.01					
7/26/2016			0.0005 (J)						
7/27/2016		0.0007 (J)			0.0016 (J)	0.0008 (J)			
7/28/2016	0.0006 (J)			<0.01			0.0007 (J)	0.0005 (J)	
7/29/2016									0.0007 (J)
8/30/2016				<0.01	0.0015 (J)				
8/31/2016			0.001 (J)			<0.01			<0.01
9/1/2016	0.0011 (J)	0.0011 (J)					<0.01	<0.01	
10/24/2016				<0.01					
10/25/2016	<0.01	<0.01			0.0018 (J)		<0.01	<0.01	
10/26/2016			<0.01			0.001 (J)			<0.01
10/27/2016									
1/3/2017				<0.01					
1/4/2017	<0.01		<0.01		0.0021 (J)		<0.01	<0.01	<0.01
1/5/2017		<0.01				<0.01			
1/6/2017									
4/3/2017		0.0015 (J)		0.0004 (J)					
4/4/2017					0.002 (J)	0.0008 (J)	0.0011 (J)	0.0008 (J)	
4/5/2017	0.001 (J)								
4/6/2017			0.0007 (J)						0.0006 (J)
7/10/2017									
7/11/2017		0.0013 (J)	0.0006 (J)	0.0006 (J)			0.0009 (J)		0.0005 (J)
7/12/2017	0.0011 (J)				0.0021 (J)				
7/13/2017						0.0006 (J)		0.0006 (J)	
10/2/2017		0.0013 (J)		<0.01			0.0009 (J)		
10/3/2017	0.0009 (J)		0.0007 (J)		0.0014 (J)	<0.01		0.0005 (J)	
10/4/2017									0.0006 (J)
1/9/2018		0.0012 (J)		<0.01				0.0007 (J)	
1/10/2018	0.0007 (J)				0.0017 (J)	<0.01	0.0008 (J)		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-15	GWC-11	GWA-8 (bg)	GWC-1	GWC-2	GWC-20	GWC-21	GWC-22
1/11/2018			0.0098 (J)						<0.01
7/9/2018				<0.01			<0.01		
7/10/2018	<0.01	<0.01			0.0021 (J)	<0.01		<0.01	
7/11/2018			<0.01						<0.01
1/16/2019				<0.01	0.0021 (J)				
1/17/2019	0.01 (J)	<0.01	<0.01					0.01	
1/18/2019									<0.01
1/21/2019						<0.01	<0.01		
3/25/2019				<0.01			<0.01		
3/26/2019	<0.01	<0.01			0.0018 (J)			<0.01	
3/27/2019			<0.01						<0.01
7/30/2019						0.00065 (J)			
8/26/2019				0.001 (J)					
8/27/2019		0.0016 (J)	0.00092 (J)		0.0062 (J)	<0.01			0.00057 (J)
8/28/2019	0.0011 (J)						0.00089 (J)	0.00087 (J)	
10/7/2019				0.00052 (J)					
10/8/2019	0.00099 (J)	0.0017 (J)	0.00091 (J)					0.00065 (J)	
10/9/2019					0.0019 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)
4/6/2020				<0.01					
4/7/2020	<0.01	0.0014 (J)	0.00094 (J)		0.0015 (J)			<0.01	0.00049 (J)
4/8/2020						0.00069 (J)	0.001 (J)		
8/17/2020				0.00082 (J)					
8/18/2020	0.0012 (J)	0.0018 (J)	0.0015 (J)			<0.01	0.0011 (J)	0.0012 (J)	0.00056 (J)
8/19/2020					0.0028 (J)				
9/28/2020				0.00071 (J)	0.0024 (J)				
9/29/2020			0.0011 (J)			<0.01			
9/30/2020	0.00098 (J)	0.0016 (J)					0.0013 (J)	0.00067 (J)	0.00064 (J)
10/1/2020									
3/10/2021			0.0013 (J)		0.0023 (J)				<0.01
3/11/2021									
3/12/2021		0.0031 (J)		0.00074 (J)			0.0014 (J)		
3/15/2021						0.0011 (J)			
3/16/2021	0.0012 (J)							0.00075 (J)	
9/21/2021			<0.01	<0.01					<0.01
9/22/2021	0.0018 (J)					<0.01	0.0013 (J)	<0.01	
9/23/2021		0.0013 (J)			0.0023 (J)				
1/31/2022				<0.01					
2/1/2022	<0.01						0.0036 (J)	<0.01	
2/2/2022						<0.01			
2/3/2022		0.0016 (J)	0.0011 (J)		0.0019 (J)				<0.01
8/30/2022				<0.01			<0.01	<0.01	
8/31/2022		<0.01	<0.01						<0.01
9/1/2022	<0.01				<0.01	<0.01			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-16	GWB-4R	GWC-15	GWC-17	GWC-9	GWB-6R	GWC-14	GWC-12
4/5/2013		<0.002						<0.002	
7/16/2013									<0.002
7/17/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
10/11/2013		<0.002						<0.002	
1/13/2014	0.013			<0.002					0.004
1/14/2014		<0.002	0.005		<0.002	<0.002	<0.002	<0.002	
4/3/2014		<0.002						<0.002	
7/8/2014									<0.002
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
7/10/2014									
10/24/2014		<0.002						<0.002	
1/12/2015			<0.002						
1/13/2015	0.0057 (J)			<0.002					<0.002
1/14/2015		<0.002			<0.002	<0.002	<0.002	<0.002	
5/10/2015								<0.002	
5/11/2015		<0.002							
7/16/2015	0.009 (J)	<0.002	<0.002	<0.002					0.0044 (J)
7/17/2015						<0.002	<0.002	<0.002	
7/18/2015					<0.002				
10/6/2015									
1/17/2016		<0.002		<0.002				<0.002	
1/18/2016	0.0094 (J)		0.0055 (J)		<0.002	<0.002	<0.002		0.0034 (J)
1/19/2016									
4/26/2016		<0.002						<0.002	
7/26/2016									
7/27/2016	0.0058			<0.002				<0.002	0.0001 (J)
7/28/2016		<0.002				<0.002	<0.002		
7/29/2016			0.003 (J)		<0.002				
8/30/2016							<0.002		
8/31/2016						0.0007 (J)			0.0001 (J)
9/1/2016	0.0663 (O)	<0.002	0.0166 (O)	<0.002	<0.002			<0.002	
10/24/2016									
10/25/2016	0.0003 (J)	0.0002 (J)		<0.002				<0.002	
10/26/2016			0.0057		<0.002		<0.002		0.0001 (J)
10/27/2016						<0.002			
1/3/2017									
1/4/2017		0.0001 (J)							<0.002
1/5/2017				<0.002	<0.002		0.0003 (J)	<0.002	
1/6/2017	0.006		0.0053			<0.002			
4/3/2017				0.0003 (J)					
4/4/2017			0.0092					0.0001 (J)	
4/5/2017		0.0002 (J)			0.0009 (J)				0.0003 (J)
4/6/2017	0.0109					0.0001 (J)	0.0002 (J)		
7/10/2017									0.0003 (J)
7/11/2017				0.0001 (J)				8E-05 (J)	
7/12/2017		0.0001 (J)	0.006			<0.002	0.0002 (J)		
7/13/2017	0.007				<0.002				
10/2/2017				0.0002 (J)				0.0001 (J)	
10/3/2017		0.0001 (J)					0.0001 (J)		
10/4/2017	0.0042 (J)		0.0057		0.0001 (J)	9E-05 (J)			0.0001 (J)
1/9/2018	0.0098			0.0002 (J)			0.0003 (J)	<0.002	
1/10/2018		0.0002 (J)							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-16	GWB-4R	GWC-15	GWC-17	GWC-9	GWB-6R	GWC-14	GWC-12
1/11/2018			0.0085		0.0001 (J)	0.0002 (J)			0.0002 (J)
7/9/2018								<0.002	
7/10/2018		<0.002		<0.002			<0.002		
7/11/2018	0.0028 (J)		0.0029 (J)		<0.002	<0.002			<0.002
1/16/2019	<0.025 (O)		<0.002		<0.002		<0.002	<0.002	
1/17/2019		<0.002		<0.002					<0.002
1/18/2019						<0.002			
1/21/2019									
3/25/2019	0.0019 (J)		<0.002						
3/26/2019		<0.002		<0.002	<0.002		<0.002	<0.002	
3/27/2019						<0.002			<0.002
7/30/2019									
8/26/2019	0.013 (J)								
8/27/2019			0.001 (J)	0.00033 (J)			0.0011 (J)	0.00051 (J)	<0.002
8/28/2019		0.0001 (J)			<0.002	6.1E-05 (J)			
10/7/2019									
10/8/2019	0.0098 (J)	0.0001 (J)		0.00012 (J)				<0.002	
10/9/2019			0.00041 (J)		0.00015 (J)	<0.002	0.00033 (J)		6.6E-05 (J)
4/6/2020	0.0024 (J)								
4/7/2020		0.00023 (J)	0.00073 (J)	8.6E-05 (J)			0.00063 (J)	<0.002	8.1E-05 (J)
4/8/2020					8.4E-05 (J)	0.00021 (J)			
8/17/2020									4.9E-05 (J)
8/18/2020		0.00017 (J)		9E-05 (J)	0.00014 (J)			<0.002	
8/19/2020	0.0044 (J)		0.00048 (J)			9.6E-05 (J)	0.00014 (J)		
9/28/2020	0.0043 (J)								
9/29/2020								<0.002	3.7E-05 (J)
9/30/2020		9.1E-05 (J)		4.7E-05 (J)	6E-05 (J)		8E-05 (J)		
10/1/2020			0.00026 (J)			3.8E-05 (J)			
3/10/2021			0.0003 (J)			0.00012 (J)	9.6E-05 (J)		6.8E-05 (J)
3/11/2021	0.0079				0.00019 (J)				
3/12/2021				5.3E-05 (J)					
3/15/2021									
3/16/2021		7.3E-05 (J)						<0.002	
9/21/2021	<0.002		<0.002				<0.002		<0.002
9/22/2021		<0.002			<0.002	<0.002		<0.002	
9/23/2021				<0.002					
1/31/2022	<0.002								
2/1/2022		<0.002			<0.002				
2/2/2022			<0.002			<0.002	<0.002	<0.002	
2/3/2022				<0.002					<0.002
8/30/2022	0.0022		<0.002				<0.002	<0.002	<0.002
8/31/2022				<0.002	<0.002				
9/1/2022		<0.002				<0.002			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-11	GWC-1	GWA-8 (bg)	GWB-5R	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	<0.002	<0.002	<0.002	<0.002	0.017 (O)				
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	0.0069			
1/20/2001	<0.002	<0.002	<0.002	<0.002	0.011	<0.002			
3/14/2001	<0.002	<0.002	<0.002	<0.002	0.026 (O)	<0.002			
7/16/2001	<0.002	<0.002	<0.002	<0.002	0.043 (O)	<0.002			
11/1/2001	<0.002	<0.002	<0.002	<0.002	0.075 (O)	<0.002			
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/20/2002	<0.002	<0.002	<0.002	<0.002	0.057 (O)	<0.002			
6/6/2003	0.0078	0.0068	<0.002	0.016 (O)	0.16 (O)	<0.002			
12/12/2003	0.0055	<0.002	<0.002	0.0095	<0.002	<0.002			
5/26/2004	<0.002	<0.002	<0.002	<0.002	0.011	<0.002			
12/7/2004	<0.002	<0.002	<0.002	<0.002	0.038 (O)	<0.002			
6/21/2005	<0.002	<0.002	<0.002	<0.002	0.036 (O)	<0.002			
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2006				<0.002					
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
8/30/2006				<0.002					
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2007				<0.002					
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
9/11/2007				<0.002					
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
3/11/2008				<0.002					
6/23/2008	<0.002	<0.002		<0.002					
6/24/2008			<0.002		<0.002	<0.002			
11/3/2008				<0.002					
12/4/2008	<0.002	<0.002		<0.002		<0.002			
12/5/2008			<0.002		<0.002				
3/25/2009				<0.002					
7/7/2009			<0.002	<0.002	<0.002				
7/8/2009	<0.002	<0.002				<0.002			
9/14/2009				<0.002					
12/20/2009			<0.002	<0.002		<0.002			
12/21/2009	<0.002	<0.002			<0.002				
3/4/2010				<0.002					
6/20/2010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2010							<0.002	<0.002	<0.002
9/14/2010				<0.002					
1/6/2011	<0.002	<0.002	<0.002		<0.002	<0.002			
1/7/2011				<0.002			<0.002	<0.002	<0.002
4/15/2011				<0.002					
7/7/2011	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002		
7/8/2011							<0.002	<0.002	<0.002
9/25/2011				<0.002					
1/17/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/18/2012							<0.002	<0.002	<0.002
4/4/2012				<0.002					
7/9/2012	<0.002	<0.002	<0.002		<0.002	<0.002			
7/10/2012				<0.002			<0.002	<0.002	<0.002
10/9/2012				<0.002					
1/17/2013	<0.002	<0.002	<0.002		<0.002	<0.002			
1/18/2013				<0.002			<0.002	<0.002	<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-11	GWC-1	GWA-8 (bg)	GWB-5R	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013				<0.002					
7/16/2013	<0.002	<0.002	<0.002		<0.002				
7/17/2013				<0.002		<0.002	<0.002	<0.002	<0.002
10/11/2013				<0.002					
1/13/2014	<0.002	<0.002	<0.002		<0.002	<0.002			
1/14/2014				<0.002			<0.002	<0.002	<0.002
4/3/2014				<0.002					
7/8/2014	<0.002	<0.002							
7/9/2014			<0.002	<0.002	<0.002	<0.002		<0.002	
7/10/2014							<0.002		<0.002
10/24/2014				<0.002					
1/12/2015							<0.002		
1/13/2015	<0.002	<0.002	<0.002		<0.002	<0.002			
1/14/2015				<0.002				<0.002	<0.002
5/10/2015				<0.002					
5/11/2015									
7/16/2015	<0.002	<0.002	<0.002		<0.002	<0.002			
7/17/2015				<0.002				<0.002	
7/18/2015							<0.002		<0.002
10/6/2015				<0.002					
1/17/2016			<0.002			<0.002	<0.002	<0.002	
1/18/2016	<0.002			<0.002	<0.002				<0.002
1/19/2016		<0.002							
4/26/2016				<0.002					
7/26/2016	<0.002	0.0001 (J)							
7/27/2016			<0.002		<0.002	<0.002			
7/28/2016				<0.002			<0.002	<0.002	
7/29/2016									0.0004 (J)
8/30/2016			<0.002	<0.002	<0.002				
8/31/2016	<0.002	0.0002 (J)				<0.002			0.0003 (J)
9/1/2016							<0.002	<0.002	
10/24/2016				<0.002					
10/25/2016			<0.002				0.0001 (J)	<0.002	
10/26/2016	<0.002	0.0001 (J)			0.0002 (J)	<0.002			0.0003 (J)
10/27/2016									
1/3/2017				0.0001 (J)	0.0001 (J)				
1/4/2017		0.0002 (J)	<0.002				<0.002	<0.002	0.0003 (J)
1/5/2017	0.0002 (J)					<0.002			
1/6/2017									
4/3/2017				0.0002 (J)					
4/4/2017			<0.002			0.0002 (J)	7E-05 (J)	9E-05 (J)	
4/5/2017									
4/6/2017	0.0005 (J)	0.0003 (J)			0.0003 (J)				0.0003 (J)
7/10/2017									
7/11/2017		0.0002 (J)		0.0001 (J)			<0.002		0.0002 (J)
7/12/2017	0.0005 (J)		<0.002		0.0002 (J)				
7/13/2017						0.0003 (J)		7E-05 (J)	
10/2/2017				0.0001 (J)			<0.002		
10/3/2017		0.0003 (J)	<0.002		0.0002 (J)	<0.002		0.0001 (J)	
10/4/2017	0.0007 (J)								0.0008 (J)
1/9/2018				0.0001 (J)				9E-05 (J)	
1/10/2018	0.0009 (J)		0.0001 (J)		0.0003 (J)	8E-05 (J)	0.0002 (J)		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-11	GWC-1	GWA-8 (bg)	GWB-5R	GWC-2	GWC-20	GWC-21	GWC-22
1/11/2018		0.0003 (J)							0.0009 (J)
7/9/2018				<0.002			<0.002		
7/10/2018			<0.002		<0.002	<0.002		<0.002	
7/11/2018	0.0015 (J)	<0.002							0.001 (J)
1/16/2019	0.00061 (J)		<0.002	<0.002	<0.002				
1/17/2019		0.00028 (J)						<0.002	
1/18/2019									0.0012 (J)
1/21/2019						<0.002	<0.002		
3/25/2019				<0.002			<0.002		
3/26/2019	<0.002		<0.002		<0.002			<0.002	
3/27/2019		0.00029 (J)							0.00047 (J)
7/30/2019						0.0002 (J)			
8/26/2019				<0.002					
8/27/2019	0.0001 (J)	0.00021 (J)	<0.002			<0.002			0.003 (J)
8/28/2019					0.0011 (J)		6.5E-05 (J)	0.00018 (J)	
10/7/2019				<0.002					
10/8/2019	0.00013 (J)	0.00028 (J)						0.00016 (J)	
10/9/2019			<0.002		0.0025 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)
4/6/2020				0.0001 (J)					
4/7/2020		0.00036 (J)	0.00012 (J)		0.0014 (J)			<0.002	0.00067 (J)
4/8/2020	0.00017 (J)					<0.002	<0.002		
8/17/2020	7.6E-05 (J)			<0.002					
8/18/2020		0.00035 (J)				<0.002	<0.002	0.00027 (J)	0.00072 (J)
8/19/2020			<0.002		7.9E-05 (J)				
9/28/2020	6.4E-05 (J)		4.3E-05 (J)	<0.002					
9/29/2020		0.00032 (J)				<0.002			
9/30/2020					0.0012 (J)		<0.002	5.4E-05 (J)	0.00023 (J)
10/1/2020									
3/10/2021		0.00042 (J)	0.0001 (J)		5.2E-05 (J)				0.00016 (J)
3/11/2021									
3/12/2021				9.3E-05 (J)			<0.002		
3/15/2021	0.00013 (J)					4.1E-05 (J)			
3/16/2021								<0.002	
9/21/2021	<0.002	<0.002		<0.002	<0.002				<0.002
9/22/2021						<0.002	<0.002	<0.002	
9/23/2021			<0.002						
1/31/2022				<0.002					
2/1/2022							<0.002	<0.002	
2/2/2022						<0.002			
2/3/2022	<0.002	<0.002	<0.002		<0.002				<0.002
8/30/2022				<0.002	<0.002		<0.002	<0.002	
8/31/2022	<0.002	<0.002							<0.002
9/1/2022			<0.002			<0.002			

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWA-8 (bg)	GWC-14	GWC-15
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.005
1/20/2001	<0.005	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	0.053	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.049	<0.005
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005
4/25/2002	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	0.1 (O)	<0.005
11/20/2002		0.0064	0.008	0.19 (O)	<0.005	<0.005	<0.005	0.018	0.0094
6/6/2003	<0.005	0.011	0.0066	0.32 (O)	<0.005	<0.005	<0.005	<0.005	0.021 (O)
12/12/2003	<0.005	<0.005	0.0056	0.013	<0.005	<0.005	<0.005	<0.005	0.016 (O)
5/26/2004	<0.005	0.007	0.0084	0.017	<0.005	<0.005	<0.005	0.023	<0.005
12/7/2004	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	0.019	<0.005
6/21/2005	<0.005	0.0063	0.0062	0.0088	<0.005	<0.005	<0.005	0.019	<0.005
12/12/2005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	0.0095	<0.005
4/4/2006							<0.005	0.033	
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006							<0.005	<0.005	
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	<0.005
2/15/2007							<0.005	0.034	
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007							<0.005	0.022	
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.045	<0.005
3/11/2008							<0.005	0.02	
6/23/2008	<0.005				<0.005	<0.005	<0.005		
6/24/2008		<0.005	<0.005	<0.005				<0.005	<0.005
11/3/2008							<0.005	0.052	
12/4/2008	<0.005				<0.005	<0.005	<0.005	0.054	
12/5/2008		<0.005	<0.005	<0.005					<0.005
3/25/2009							<0.005	0.072	
7/7/2009	<0.005	<0.005	<0.005	<0.005			<0.005		
7/8/2009					<0.005	<0.005		0.021	<0.005
9/14/2009							<0.005	0.015	
12/20/2009	<0.005			<0.005			<0.005	0.072	<0.005
12/21/2009		<0.005	<0.005		<0.005	<0.005			
3/4/2010							<0.005	0.083	
6/20/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	<0.005
6/21/2010									
9/14/2010							<0.005	0.085	
1/6/2011		<0.005		<0.005	<0.005				
1/7/2011	<0.005		<0.005			<0.005	<0.005	0.028	<0.005
4/15/2011							<0.005	<0.005	
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/8/2011									
9/25/2011							<0.005	0.02	
1/17/2012	<0.005	<0.005		<0.005	0.023	<0.005	<0.005	0.016	<0.005
1/18/2012			<0.005						
4/4/2012							<0.005	0.0156	
7/9/2012	<0.005	<0.005		<0.005	0.016	<0.005	<0.005	<0.005	0.066 (O)
7/10/2012			<0.005				<0.005		
10/9/2012							<0.005	0.0094	
1/17/2013		<0.005		<0.005	0.033	<0.005			
1/18/2013	0.009		<0.005				<0.005	0.0067	0.04 (O)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWA-8 (bg)	GWC-14	GWC-15
4/5/2013							<0.005	0.0077	
7/16/2013		<0.005		0.012	0.0068	<0.005			
7/17/2013	0.011		<0.005				<0.005	0.01	<0.005
10/11/2013							<0.005	0.0087	
1/13/2014	0.012	<0.005		<0.005	0.036	<0.005			<0.005
1/14/2014			<0.005				<0.005	0.012	
4/3/2014							<0.005	0.022	
7/8/2014					0.017	<0.005			
7/9/2014	0.011	<0.005	<0.005	<0.005			<0.005	0.0089	<0.005
7/10/2014									
10/24/2014							<0.005	0.017	
1/12/2015									
1/13/2015	0.0092	<0.005		<0.005	0.027	<0.005			<0.005
1/14/2015			<0.005				<0.005	<0.005	
5/10/2015							<0.005	<0.005	
5/11/2015									
7/16/2015	0.014	<0.005		<0.005	<0.005	<0.005			<0.005
7/17/2015			<0.005				<0.005	<0.005	
7/18/2015									
10/6/2015							<0.005	<0.005	
1/17/2016				0.023				<0.005	<0.005
1/18/2016	0.023	<0.005	<0.005			<0.005	<0.005		
1/19/2016					0.023				
4/26/2016							<0.005	0.00428 (J)	
7/26/2016					0.0056 (J)				
7/27/2016	0.0323	<0.005		0.002 (J)		0.0025 (J)		0.0038 (J)	<0.005
7/28/2016			<0.005				0.001 (J)		
7/29/2016									
8/30/2016		<0.005	<0.005	0.002 (J)			<0.005		
8/31/2016					0.0084 (J)	0.0019 (J)			
9/1/2016	0.0438							0.0056 (J)	<0.005
10/24/2016							0.0013 (J)		
10/25/2016	0.031			0.0022 (J)				0.0023 (J)	<0.005
10/26/2016		<0.005	<0.005		0.0052 (J)	0.002 (J)			
10/27/2016									
1/3/2017		<0.005					<0.005		
1/4/2017				0.0016 (J)	0.0062 (J)	<0.005			
1/5/2017			0.0014 (J)					0.0038 (J)	<0.005
1/6/2017	0.0324								
4/3/2017							<0.005		<0.005
4/4/2017				0.0052 (J)				0.0064 (J)	
4/5/2017						<0.005			
4/6/2017	0.0188 (J)	<0.005	<0.005		0.0195				
7/10/2017						<0.005			
7/11/2017					<0.005		<0.005	0.0044 (J)	<0.005
7/12/2017		<0.005	<0.005	0.0024 (J)					
7/13/2017	0.0118								
10/2/2017							<0.005	0.004 (J)	<0.005
10/3/2017		<0.005	<0.005	<0.005	0.0079 (J)				
10/4/2017	0.0195					<0.005			
1/9/2018	<0.005		<0.005				<0.005	0.0019 (J)	0.0019 (J)
1/10/2018		<0.005		0.0018 (J)					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWA-8 (bg)	GWC-14	GWC-15
1/11/2018					0.0054 (J)	<0.005			
7/9/2018							<0.005	0.0029 (J)	
7/10/2018		0.0018 (J)	0.0016 (J)	0.0026 (J)					0.0086 (J)
7/11/2018	<0.005				0.0022 (J)	<0.005			
1/16/2019	0.0071 (J)	<0.005	<0.005	0.0018 (J)			<0.005	0.0016 (J)	
1/17/2019					<0.005	<0.005			0.0029 (J)
1/18/2019									
1/21/2019									
3/25/2019	<0.005						<0.005		
3/26/2019		<0.005	0.05 (J)	0.0023 (J)				0.0022 (J)	0.0074 (J)
3/27/2019					0.01 (J)	<0.005			
7/30/2019									
8/26/2019	<0.005						<0.005		
8/27/2019			0.0033 (J)	0.0016 (J)	<0.005	<0.005		0.0035 (J)	0.0092 (J)
8/28/2019		0.0033 (J)							
10/7/2019							<0.005		
10/8/2019	0.0072 (J)				<0.005			0.0026 (J)	0.014
10/9/2019		0.0073 (J)	<0.005	0.0024 (J)		<0.005			
4/6/2020	0.0078 (J)						<0.005		
4/7/2020		<0.005	<0.005	0.0013 (J)	0.0021 (J)	<0.005		0.005 (J)	0.0029 (J)
4/8/2020									
8/17/2020						<0.005	<0.005		
8/18/2020					0.0028 (J)			0.0029 (J)	0.0022 (J)
8/19/2020	<0.005	<0.005	<0.005	0.002 (J)					
9/28/2020	0.01 (J)			<0.005			<0.005		
9/29/2020					0.0024 (J)	<0.005		0.0051 (J)	
9/30/2020		<0.005	0.0023 (J)						<0.005
10/1/2020									
3/10/2021		0.006	0.0049 (J)	0.0026 (J)	0.0044 (J)	0.003 (J)			
3/11/2021	<0.005								
3/12/2021							<0.005		0.0064
3/15/2021									
3/16/2021								0.0034 (J)	
9/21/2021	<0.005	<0.005	0.0016 (J)		0.0038 (J)	<0.005	<0.005		
9/22/2021								0.0034 (J)	
9/23/2021				0.0018 (J)					0.0016 (J)
1/31/2022	<0.005						<0.005		
2/1/2022									
2/2/2022			0.0017 (J)					0.0038 (J)	
2/3/2022		<0.005		0.0022 (J)	0.019	<0.005			0.0031 (J)
8/30/2022	0.0063	<0.005	0.00277 (J)			<0.005	<0.005	0.00544	
8/31/2022					0.00344 (J)				0.00192 (J)
9/1/2022				0.00252 (J)					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005			
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005			
1/20/2001	<0.005	<0.005	<0.005	0.014 (O)	<0.005			
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005			
7/16/2001	<0.005	<0.005	<0.005	0.015 (O)	<0.005			
11/1/2001	<0.005	<0.005	<0.005	0.012 (O)	<0.005			
4/25/2002	<0.005	<0.005	<0.005	0.01	<0.005			
11/20/2002	<0.005	<0.005	<0.005	0.026 (O)	<0.005			
6/6/2003	0.021 (O)	<0.005	<0.005	0.022 (O)	<0.005			
12/12/2003	0.0078	<0.005	<0.005	0.028 (O)	<0.005			
5/26/2004	0.0053	<0.005	<0.005	0.012 (O)	0.005			
12/7/2004	<0.005	<0.005	<0.005	0.0073	<0.005			
6/21/2005	<0.005	<0.005	0.0062	0.0087	<0.005			
12/12/2005	<0.005	<0.005	<0.005	0.013 (O)	<0.005			
4/4/2006	<0.005							
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005			
8/30/2006	<0.005							
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2007	<0.005							
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005			
9/11/2007	<0.005							
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005			
3/11/2008	<0.005							
6/23/2008			<0.005					
6/24/2008	<0.005	<0.005		<0.005	<0.005			
11/3/2008	<0.005							
12/4/2008			<0.005		<0.005			
12/5/2008	<0.005	<0.005		<0.005				
3/25/2009	<0.005							
7/7/2009				<0.005				
7/8/2009	<0.005	<0.005	<0.005		<0.005			
9/14/2009	<0.005							
12/20/2009	<0.005				<0.005			
12/21/2009		<0.005	<0.005	<0.005				
3/4/2010	<0.005							
6/20/2010			<0.005		<0.005			
6/21/2010	<0.005	<0.005		<0.005		<0.005	0.048	<0.005
9/14/2010	<0.005							
1/6/2011					<0.005			
1/7/2011	<0.005	<0.005	<0.005	<0.005		<0.005	0.014	<0.005
4/15/2011	<0.005							
7/7/2011	<0.005					<0.005		
7/8/2011		<0.005	<0.005	<0.005		<0.005	0.018	<0.005
9/25/2011	<0.005							
1/17/2012					<0.005			
1/18/2012	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
4/4/2012	<0.005							
7/9/2012					<0.005			
7/10/2012	<0.005	<0.005	<0.005	<0.005		<0.005	0.02	<0.005
10/9/2012	<0.005							
1/17/2013					<0.005			
1/18/2013	<0.005	<0.005	<0.005	<0.005		0.005	0.015	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013	<0.005							
7/16/2013								
7/17/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037	<0.005
10/11/2013	0.0069							
1/13/2014					<0.005			
1/14/2014	<0.005	<0.005	<0.005	<0.005		<0.005	0.043	<0.005
4/3/2014	<0.005							
7/8/2014								
7/9/2014	0.005	<0.005	<0.005	<0.005	<0.005		0.023	
7/10/2014						<0.005		<0.005
10/24/2014	<0.005							
1/12/2015				<0.005		<0.005		
1/13/2015					<0.005			
1/14/2015	<0.005	<0.005	<0.005				0.022	<0.005
5/10/2015								
5/11/2015	<0.005							
7/16/2015	<0.005			<0.005	<0.005			
7/17/2015			<0.005				0.033	
7/18/2015		<0.005				<0.005		<0.005
10/6/2015	0.0073							
1/17/2016	0.0031 (J)				<0.005	<0.005	0.021	
1/18/2016		<0.005	<0.005	<0.005				<0.005
1/19/2016								
4/26/2016	0.00497 (J)							
7/26/2016								
7/27/2016					0.002 (J)			
7/28/2016	0.0076 (J)		<0.005			<0.005	0.0341	
7/29/2016		0.0011 (J)		0.0036 (J)				0.0022 (J)
8/30/2016								
8/31/2016			<0.005		<0.005			0.0014 (J)
9/1/2016	0.0052 (J)	0.0012 (J)		0.0067 (J)		<0.005	0.0297	
10/24/2016								
10/25/2016	0.0085 (J)					0.0014 (J)	0.0095 (J)	
10/26/2016		0.0013 (J)		0.0042 (J)	0.0035 (J)			0.001 (J)
10/27/2016			<0.005					
1/3/2017								
1/4/2017	0.0048 (J)					0.0014 (J)	0.022	<0.005
1/5/2017		0.0012 (J)			<0.005			
1/6/2017			<0.005	0.0042 (J)				
4/3/2017								
4/4/2017				0.0043 (J)	<0.005	<0.005	0.0236	
4/5/2017	0.0068 (J)	<0.005						
4/6/2017			<0.005					<0.005
7/10/2017								
7/11/2017						<0.005		<0.005
7/12/2017	0.0048 (J)		<0.005	0.0033 (J)				
7/13/2017		0.0018 (J)			<0.005		0.013	
10/2/2017						<0.005		
10/3/2017	0.0051 (J)				<0.005		0.01 (J)	
10/4/2017		0.0042 (J)	<0.005	0.0038 (J)				0.0023 (J)
1/9/2018							0.0162	
1/10/2018	0.0018 (J)				<0.005	<0.005		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
1/11/2018		<0.005	<0.005	0.0029 (J)				<0.005
7/9/2018						<0.005		
7/10/2018	0.0045 (J)				<0.005		0.016	
7/11/2018		0.0016 (J)	<0.005	0.0015 (J)				<0.005
1/16/2019		<0.005		<0.005				
1/17/2019	0.0031 (J)						0.011	
1/18/2019			<0.005					<0.005
1/21/2019					<0.005	0.0014 (J)		
3/25/2019				<0.005		<0.005		
3/26/2019	0.0033 (J)	<0.005					0.022	
3/27/2019			<0.005					<0.005
7/30/2019					<0.005			
8/26/2019								
8/27/2019				<0.005	<0.005			<0.005
8/28/2019	0.004 (J)	<0.005	<0.005			0.0014 (J)	0.019	
10/7/2019								
10/8/2019	0.0023 (J)						0.019	
10/9/2019		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
4/6/2020								
4/7/2020	<0.005			0.0025 (J)			0.012	<0.005
4/8/2020		<0.005	<0.005		<0.005	0.0013 (J)		
8/17/2020								
8/18/2020	0.0058 (J)	0.002 (J)			<0.005	<0.005	0.013	<0.005
8/19/2020			<0.005	<0.005				
9/28/2020								
9/29/2020					<0.005			
9/30/2020	0.0037 (J)	<0.005				<0.005	0.0061 (J)	<0.005
10/1/2020			<0.005	<0.005				
3/10/2021			<0.005	0.0021 (J)				<0.005
3/11/2021		0.0016 (J)						
3/12/2021						<0.005		
3/15/2021					<0.005			
3/16/2021	0.0044 (J)						0.0055	
9/21/2021				<0.005				<0.005
9/22/2021	0.0031 (J)	<0.005	<0.005		<0.005	0.0024 (J)	0.0027 (J)	
9/23/2021								
1/31/2022								
2/1/2022	0.0024 (J)	<0.005				<0.005	0.0054	
2/2/2022			<0.005	<0.005	<0.005			
2/3/2022								<0.005
8/30/2022				0.00265 (J)		0.00192 (J)	0.00648	
8/31/2022		<0.005						<0.005
9/1/2022	0.00334 (J)		<0.005		<0.005			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12
11/21/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13
1/20/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.14
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.18
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.15
11/20/2002		0.03	<0.02	0.0069	<0.02	0.0071	<0.02	0.0069	0.15
6/6/2003	0.047	0.0065	0.0063	0.082 (O)	<0.02	0.0098	<0.02	0.16 (O)	0.11
12/12/2003	0.0086	0.0052	<0.02	0.012	<0.02	0.0074	<0.02	<0.02	0.089
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09
12/7/2004	<0.02	0.0074	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.072
6/21/2005	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04
12/12/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.021
4/4/2006		0.013		<0.02					
6/27/2006	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0025	0.0029	0.02
8/30/2006		0.0039		<0.02					
12/4/2006	0.0027	0.016	<0.02	0.0031	<0.02	<0.02	<0.02	0.0047	0.022
2/15/2007		0.017		0.0025					
6/23/2007	0.0027	0.0076	<0.02	0.0032	<0.02	0.0036	<0.02	0.0029	0.027
9/11/2007		0.012		<0.02					
12/11/2007	0.0033	0.017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.017
3/11/2008		0.012		<0.02					
6/23/2008	0.0074		<0.02		<0.02	<0.02			
6/24/2008		0.0069		<0.02			<0.02	<0.02	0.053
11/3/2008		0.016		0.0032					
12/4/2008	0.0084	0.013	<0.02		<0.02	<0.02			
12/5/2008				<0.02			<0.02	<0.02	0.0078
3/25/2009		0.014		<0.02					
7/7/2009	0.023							<0.02	0.012
7/8/2009		0.014	<0.02	0.0036	<0.02	0.0026	<0.02		
9/14/2009		0.0072		0.0026					
12/20/2009	0.007	0.02		0.0031				<0.02	
12/21/2009			<0.02		<0.02	<0.02	<0.02		0.011
3/4/2010		0.023		<0.02					
6/20/2010	0.0047	0.017	<0.02		<0.02	<0.02		0.0037	0.0083
6/21/2010				0.0025			<0.02		
9/14/2010		0.018		0.0035					
1/6/2011			0.0028			0.003		<0.02	
1/7/2011	0.018	0.019		0.0036	<0.02		<0.02		0.0079
4/15/2011		0.019		<0.02					
7/7/2011	0.019	0.014	<0.02	0.003	<0.02	0.004		0.0045	0.007
7/8/2011							0.0031		
9/25/2011		0.015		0.0037					
1/17/2012	0.0298	0.021	<0.02		<0.02	<0.02		<0.02	
1/18/2012				<0.02			<0.02		0.0116
4/4/2012		0.0191		<0.02					
7/9/2012	0.14	0.026	<0.02		<0.02	0.005		0.0026	
7/10/2012				0.0026			<0.02		0.0096
10/9/2012		0.049		0.007					
1/17/2013			<0.02		<0.02	0.005		<0.02	
1/18/2013	0.21	0.036		<0.02			<0.02		<0.02

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
4/5/2013		0.04		<0.02					
7/16/2013			<0.02		<0.02	<0.02		<0.02	
7/17/2013	0.18	0.062		<0.02			<0.02		<0.02
10/11/2013		0.032		<0.02					
1/13/2014	0.24		<0.02		<0.02	<0.02		<0.02	
1/14/2014		0.044		<0.02			<0.02		<0.02
4/3/2014		0.077 (O)		0.0032 (J)					
7/8/2014			0.002 (J)		0.0034 (J)	0.0024 (J)			
7/9/2014	0.22	0.032		0.0031 (J)			0.0012 (J)	0.0041 (J)	0.0039 (J)
7/10/2014									
10/24/2014		0.045		0.0028 (J)					
1/12/2015									
1/13/2015	0.19		0.0015 (J)		<0.02	0.0023 (J)		0.0029 (J)	
1/14/2015		0.031		0.0034 (J)			0.002 (J)		0.005
5/10/2015		0.013							
5/11/2015				0.0026 (J)					
7/16/2015	0.23		<0.02	0.0028 (J)	0.0049 (J)	0.002 (J)		0.0034 (J)	
7/17/2015		0.028							0.0045 (J)
7/18/2015							<0.02		
10/6/2015		0.02		0.0016 (J)					
1/17/2016		0.028		0.0029 (J)				0.0046 (J)	
1/18/2016	0.41		0.0011 (J)		0.0058		0.0019 (J)		0.0044 (J)
1/19/2016						0.0025 (J)			
4/26/2016		0.0181		0.00296 (J)					
7/26/2016			<0.02			0.0027 (J)			
7/27/2016	0.397	0.0189			0.0058 (J)			0.0064 (J)	
7/28/2016				0.0026 (J)					0.0038 (J)
7/29/2016							0.0031 (J)		
10/24/2016									
10/25/2016	0.425	0.0206		<0.02					
1/3/2017									
1/4/2017				<0.02	<0.02	<0.02		<0.02	
1/5/2017		0.0172	<0.02				<0.02		0.0077 (J)
1/6/2017	0.41								
4/3/2017									
4/4/2017		0.0235						0.0061 (J)	
4/5/2017				0.0033 (J)	0.0039 (J)		0.0029 (J)		
4/6/2017	0.297		<0.02			0.0025 (J)			0.0069 (J)
7/10/2017					0.0062 (J)				
7/11/2017		0.0136				0.0027 (J)			
7/12/2017			0.0016 (J)	0.0037 (J)				0.0067 (J)	0.0098 (J)
7/13/2017	0.194						0.0037 (J)		
10/2/2017		0.0175							
10/3/2017				0.0036 (J)					
10/4/2017	0.316								
1/9/2018	0.194	0.0103							0.0086 (J)
1/10/2018			0.0019 (J)	0.0029 (J)				0.0056 (J)	
1/11/2018					0.0025 (J)	0.0019 (J)	0.0026 (J)		
7/9/2018		0.0078 (J)							
7/10/2018				0.0025 (J)				0.0056 (J)	0.0098 (J)
7/11/2018	0.15		0.0097 (J)		0.0059 (J)	0.0021 (J)	0.0032 (J)		
1/16/2019	0.16	0.0043 (J)	<0.02				<0.02	0.0043 (J)	0.077

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
1/17/2019				0.0021 (J)	<0.02	0.0021 (J)			
1/18/2019									
1/21/2019									
3/25/2019	0.18								
3/26/2019		0.0063 (J)	0.0029 (J)	0.0038 (J)			0.0024 (J)	0.0051 (J)	0.086
3/27/2019					0.0049 (J)	0.0023 (J)			
7/30/2019									
10/7/2019									
10/8/2019	0.11	<0.02	<0.02	<0.02		<0.02			
10/9/2019					0.0021 (J)		<0.02	<0.02	0.018 (J)
4/6/2020	0.12								
4/7/2020		0.0026 (J)		<0.02	0.0024 (J)	<0.02		0.0015 (J)	0.041 (J)
4/8/2020			<0.02				<0.02		
9/28/2020	0.1		<0.02					0.0042 (J)	
9/29/2020		<0.02			0.0046 (J)	0.0023 (J)			
9/30/2020				0.0028 (J)			<0.02		0.018
10/1/2020									
3/10/2021					0.0055 (J)	0.0023 (J)		0.005 (J)	0.027
3/11/2021	0.14						<0.02		
3/12/2021									
3/15/2021			<0.02						
3/16/2021		<0.02		0.0034 (J)					
9/21/2021	0.096		<0.02		0.0051 (J)	0.002 (J)			0.015
9/22/2021		0.0052 (J)		0.0025 (J)			<0.02		
9/23/2021								0.0042 (J)	
1/31/2022	0.1								
2/1/2022				0.0021 (J)			0.0022 (J)		
2/2/2022		0.004 (J)							0.0099 (J)
2/3/2022			<0.02		0.0052 (J)	0.0031 (J)		0.0028 (J)	
8/30/2022	0.11	0.00933 (J)			0.00949 (J)				0.0192 (J)
8/31/2022			<0.02			0.00481 (J)	0.00599 (J)		
9/1/2022				0.0065 (J)				0.00748 (J)	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
9/29/2000	0.038	0.06	<0.02	<0.02	<0.02				
11/21/2000	0.013	0.068	<0.02		<0.02	<0.02			
1/20/2001	0.038	0.12	<0.02	<0.02	<0.02	<0.02			
3/14/2001	0.077 (O)	0.08	<0.02	<0.02	<0.02	<0.02			
7/16/2001	0.12 (O)	0.11	<0.02	<0.02	<0.02	<0.02			
11/1/2001	0.21 (O)	0.079	<0.02	<0.02	<0.02	<0.02			
4/25/2002	0.086 (O)	0.11	<0.02	<0.02	<0.02	<0.02			
11/20/2002	0.14 (O)	0.15	0.014	<0.02	0.0099	<0.02			
6/6/2003	0.12 (O)	0.12	<0.02	0.017	0.019 (O)	<0.02			
12/12/2003	0.014	0.13	<0.02	0.011	0.018 (O)	<0.02			
5/26/2004	0.06 (O)	0.095	<0.02	<0.02	<0.02	<0.02			
12/7/2004	0.054	0.067	<0.02	<0.02	<0.02	<0.02			
6/21/2005	0.038	0.062	<0.02	<0.02	<0.02	<0.02			
12/12/2005	0.0056	0.09	<0.02	<0.02	<0.02	<0.02			
4/4/2006				<0.02					
6/27/2006	0.0043	0.083	<0.02	<0.02	<0.02	<0.02			
8/30/2006				<0.02					
12/4/2006	0.0044	0.084	<0.02	<0.02	<0.02	<0.02			
2/15/2007				<0.02					
6/23/2007	0.0039	0.081	<0.02	<0.02	<0.02	<0.02			
9/11/2007				<0.02					
12/11/2007	0.0029	0.067	<0.02	<0.02	<0.02	<0.02			
3/11/2008				<0.02					
6/23/2008			<0.02	<0.02					
6/24/2008	0.003	0.059			<0.02	<0.02			
11/3/2008				<0.02					
12/4/2008			<0.02	<0.02					
12/5/2008	<0.02	0.054			<0.02				
3/25/2009				<0.02					
7/7/2009	<0.02	0.038		<0.02					
7/8/2009			0.0029		<0.02	<0.02			
9/14/2009				<0.02					
12/20/2009				<0.02	<0.02	<0.02			
12/21/2009	<0.02	0.06	<0.02						
3/4/2010				<0.02					
6/20/2010	<0.02		<0.02	<0.02	<0.02	<0.02			
6/21/2010		0.036					<0.02	<0.02	<0.02
9/14/2010				<0.02					
1/6/2011	0.0067					<0.02			
1/7/2011		0.043	<0.02	<0.02	<0.02		<0.02	0.0029	0.0031
4/15/2011				<0.02					
7/7/2011	0.019			<0.02	0.0036			<0.02	
7/8/2011		0.044	<0.02				<0.02	0.0046	0.0048
9/25/2011				<0.02					
1/17/2012	0.021			<0.02	<0.02	<0.02			
1/18/2012		0.045	<0.02				<0.02	<0.02	<0.02
4/4/2012				<0.02					
7/9/2012	0.032				0.0059	<0.02			
7/10/2012		0.048	<0.02	<0.02			<0.02	0.0081	<0.02
10/9/2012				<0.02					
1/17/2013	0.034					<0.02			
1/18/2013		0.049	<0.02	<0.02	<0.02		<0.02	0.0063	<0.02

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
4/5/2013				<0.02					
7/16/2013	0.021								
7/17/2013		0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/11/2013				<0.02					
1/13/2014	0.008				<0.02	<0.02			
1/14/2014		0.067	<0.02	<0.02			<0.02	<0.02	0.006
4/3/2014				0.0015 (J)					
7/8/2014									
7/9/2014	0.0052	0.055	0.0016 (J)	0.0012 (J)	0.0012 (J)	<0.02			0.0019 (J)
7/10/2014							0.0053	0.0026 (J)	
10/24/2014				<0.02					
1/12/2015		0.066						0.0031 (J)	
1/13/2015	0.0036 (J)				0.0013 (J)	<0.02			
1/14/2015			<0.02	<0.02			0.0013 (J)		0.0037 (J)
5/10/2015				<0.02					
5/11/2015									
7/16/2015	0.004 (J)	0.045			<0.02	<0.02			
7/17/2015			0.0029 (J)	<0.02					0.0028 (J)
7/18/2015							0.0043 (J)	0.003 (J)	
10/6/2015				0.0012 (J)					
1/17/2016					0.0013 (J)	<0.02		0.0025 (J)	0.0039 (J)
1/18/2016	0.0069	0.049	<0.02	0.00079 (J)			<0.02		
1/19/2016									
4/26/2016				<0.02					
7/26/2016									
7/27/2016	0.0046 (J)				<0.02	<0.02			
7/28/2016			<0.02	<0.02				0.0024 (J)	0.0022 (J)
7/29/2016		0.0388					0.0052 (J)		
10/24/2016				<0.02					
10/25/2016					<0.02			<0.02	
1/3/2017	<0.02			<0.02					
1/4/2017							<0.02	<0.02	<0.02
1/5/2017					<0.02	<0.02			
1/6/2017		0.0341	<0.02						
4/3/2017				<0.02	0.002 (J)				
4/4/2017		0.0371				<0.02		0.0024 (J)	0.003 (J)
4/5/2017									
4/6/2017	0.0063 (J)		<0.02				<0.02		
7/10/2017									
7/11/2017				<0.02	0.0022 (J)		0.0016 (J)	0.003 (J)	
7/12/2017	0.0064 (J)	0.0399	0.0013 (J)						
7/13/2017						<0.02			0.0019 (J)
10/2/2017				<0.02	0.0022 (J)			0.0028 (J)	
10/3/2017									
10/4/2017									
1/9/2018				0.0014 (J)	0.0021 (J)				0.0046 (J)
1/10/2018	0.0077 (J)					<0.02		0.0026 (J)	
1/11/2018		0.0327	<0.02				0.0012 (J)		
7/9/2018				<0.02				<0.02	
7/10/2018	0.016				0.0025 (J)	<0.02			0.0031 (J)
7/11/2018		0.02	<0.02				0.0025 (J)		
1/16/2019	0.0033 (J)	0.0022 (J)		<0.02					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
1/17/2019					<0.02				0.0022 (J)
1/18/2019			<0.02				<0.02		
1/21/2019						0.0024 (J)		0.0031 (J)	
3/25/2019		0.004 (J)		<0.02				0.0024 (J)	
3/26/2019	0.0058 (J)				0.0026 (J)				0.0041 (J)
3/27/2019			<0.02				0.002 (J)		
7/30/2019						<0.02			
10/7/2019				<0.02					
10/8/2019					<0.02				<0.02
10/9/2019	0.033 (J)	<0.02	<0.02			<0.02	<0.02	<0.02	
4/6/2020				<0.02					
4/7/2020	0.0053 (J)	0.0037 (J)			<0.02		0.0014 (J)		<0.02
4/8/2020			0.0015 (J)			<0.02		<0.02	
9/28/2020				<0.02					
9/29/2020						<0.02			
9/30/2020	0.0037 (J)				0.0028 (J)		<0.02	0.0029 (J)	0.0029 (J)
10/1/2020		0.0047 (J)	<0.02						
3/10/2021	0.0026 (J)	0.0054 (J)	<0.02				<0.02		
3/11/2021									
3/12/2021				<0.02	0.0037 (J)			0.0038 (J)	
3/15/2021						<0.02			
3/16/2021									0.003 (J)
9/21/2021	0.0039 (J)	0.0027 (J)		<0.02			<0.02		
9/22/2021			<0.02			<0.02		0.0033 (J)	<0.02
9/23/2021					0.0022 (J)				
1/31/2022				<0.02					
2/1/2022								0.0039 (J)	0.0036 (J)
2/2/2022		0.0031 (J)	<0.02			<0.02			
2/3/2022	0.0046 (J)				0.0023 (J)		<0.02		
8/30/2022	0.0138 (J)	0.00943 (J)		0.00372 (J)				0.00647 (J)	0.00715 (J)
8/31/2022					0.00476 (J)		0.00396 (J)		
9/1/2022			0.00514 (J)			0.0045 (J)			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-9	GWC-1	GWC-15	GWB-4R	GWC-14	GWC-16	GWC-17
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/21/2000	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/20/2001	<0.02	0.025	<0.02	<0.02	<0.02	0.041	<0.02	<0.02	<0.02
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	0.059	<0.02	<0.02	<0.02
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/20/2002		0.016	0.033 (O)	<0.02	<0.02	0.061	<0.02	<0.02	0.014
6/6/2003	0.69 (O)	0.032	<0.02	0.011	<0.02	0.041	<0.02	0.035 (O)	0.012
12/12/2003	0.12	0.019	<0.02	<0.02	<0.02	0.012	<0.02	<0.02	<0.02
5/26/2004	0.013	<0.02	<0.02	<0.02	<0.02	0.016	<0.02	<0.02	<0.02
12/7/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
12/12/2005	0.014	0.01	0.032 (O)	<0.02	0.064 (O)	0.017	0.011	<0.02	<0.02
4/4/2006		<0.02					<0.02	<0.02	
6/27/2006	0.01	0.0043	0.018 (O)	<0.02	0.011	0.11	0.0045	0.077 (O)	0.0046
8/30/2006		0.017					<0.02	0.0027	
12/4/2006	0.0065	0.0053	0.0044	<0.02	0.0033	0.086	<0.02	<0.02	0.0071
2/15/2007		0.0045					<0.02	0.0032	
6/23/2007	0.0049	0.0043	0.0041	<0.02	0.0029	0.076	<0.02	0.0058	0.005
9/11/2007		0.004					<0.02	0.0033	
12/11/2007	0.0043	0.0048	0.0039	<0.02	<0.02	0.087	<0.02	<0.02	0.0033
3/11/2008		0.0043					<0.02	<0.02	
6/23/2008	0.0025	0.0037	<0.02						
6/24/2008				<0.02	<0.02	0.062	<0.02	<0.02	0.0037
11/3/2008		0.0032					<0.02	0.0025	
12/4/2008	0.0025	0.0029	0.0039				<0.02		
12/5/2008				<0.02	<0.02	0.014		<0.02	0.0027
3/25/2009		0.0055					<0.02	0.0025	
7/7/2009	<0.02	0.0028		<0.02		0.052			
7/8/2009			<0.02		<0.02		<0.02	<0.02	0.0048
9/14/2009		0.0027					<0.02	<0.02	
12/20/2009	0.0031	0.0029		<0.02	<0.02		<0.02	<0.02	
12/21/2009			0.004			0.046			0.0032
3/4/2010		0.0042					<0.02	<0.02	
6/20/2010	<0.02	0.0027	<0.02	<0.02	<0.02		<0.02		
6/21/2010						0.045		<0.02	0.0028
9/14/2010		<0.02					<0.02	<0.02	
1/6/2011				<0.02					
1/7/2011	<0.02	0.0032	0.0032		<0.02	0.024	<0.02	<0.02	0.003
4/15/2011		<0.02					<0.02	<0.02	
7/7/2011	0.0031	0.005		0.0025	<0.02		<0.02	<0.02	
7/8/2011			0.0025			0.023			0.0034
9/25/2011		0.0041					<0.02	0.0028	
1/17/2012	0.004	0.0043		<0.02	<0.02		<0.02		
1/18/2012			0.0045			0.011		0.0029	0.0049
4/4/2012		<0.02					<0.02	<0.02	
7/9/2012	0.0096			<0.02	<0.02		<0.02		
7/10/2012		0.0028	<0.02			0.024		<0.02	0.0039
10/9/2012		0.0033					<0.02	0.0027	
1/17/2013				<0.02					
1/18/2013	0.051	0.0038	0.0029		<0.02	0.011	<0.02	<0.02	0.0043

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-9	GWC-1	GWC-15	GWB-4R	GWC-14	GWC-16	GWC-17
4/5/2013		0.0026					<0.02	<0.02	
7/16/2013				<0.02					
7/17/2013	0.042	<0.02	<0.02		<0.02	0.0029	<0.02	<0.02	0.0035
10/11/2013		0.0046					<0.02	<0.02	
1/13/2014	0.0025			0.0025	0.0025				
1/14/2014		0.0025	0.0025			0.0025	0.0025	0.0025	0.0025
4/3/2014		0.0029					0.0014 (J)	0.0015 (J)	
7/8/2014									
7/9/2014	0.064	0.002 (J)	0.0016 (J)	<0.02	<0.02	0.0051	0.00086 (J)	0.0012 (J)	0.0033
7/10/2014									
10/24/2014		0.0031					0.00083 (J)	0.0013 (J)	
1/12/2015						0.0023 (J)			
1/13/2015	0.066			0.0025	<0.02				
1/14/2015		0.003	0.0024 (J)				<0.02	0.0017 (J)	0.0067
5/10/2015		0.0028					<0.02		
5/11/2015								0.0015 (J)	
7/16/2015	0.036			<0.02	<0.02	0.0021 (J)		<0.02	
7/17/2015		0.0018 (J)	0.0031				<0.02		
7/18/2015									<0.02
10/6/2015		0.0018 (J)					<0.02	<0.02	
1/17/2016				<0.02	<0.02		<0.02	<0.02	
1/18/2016	0.035	0.0028	0.0059			0.0092			0.012
1/19/2016									
4/26/2016		<0.02					<0.02	<0.02	
7/26/2016									
7/27/2016	0.0529			<0.02	<0.02		<0.02		
7/28/2016		0.0018 (J)	0.0019 (J)					<0.02	
7/29/2016						0.003 (J)			0.0086 (J)
10/24/2016		0.0024 (J)							
10/25/2016	0.0035 (J)				<0.02		<0.02	<0.02	
1/3/2017		0.0035 (J)							
1/4/2017				<0.02				0.0025 (J)	
1/5/2017					<0.02		<0.02		0.016
1/6/2017	0.0235		0.0026 (J)			0.0104			
4/3/2017		0.0041 (J)			<0.02				
4/4/2017				<0.02		0.0132	<0.02		
4/5/2017								0.0025 (J)	0.0175
4/6/2017	0.0829		0.0047 (J)						
7/10/2017									
7/11/2017		0.0029 (J)			<0.02		<0.02		
7/12/2017			0.003 (J)	<0.02		0.0046 (J)		0.002 (J)	
7/13/2017	0.0853								0.0126
10/2/2017		0.0026 (J)			<0.02		0.0026 (J)		
10/3/2017								<0.02	
10/4/2017	0.0263								
1/9/2018	0.0665	0.0035 (J)			<0.02		0.0018 (J)		
1/10/2018				0.0014 (J)				0.0016 (J)	
1/11/2018			0.0046 (J)			0.0095 (J)			0.012
7/9/2018		0.0022 (J)					<0.02		
7/10/2018				0.0021 (J)	<0.02			0.0031 (J)	
7/11/2018	0.02 (J)		0.0033 (J)			0.0028 (J)			0.011
1/16/2019	0.014 (J)	0.0037 (J)		<0.02		0.0052 (J)	<0.02		0.0094 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-9	GWC-1	GWC-15	GWB-4R	GWC-14	GWC-16	GWC-17
1/17/2019					<0.02			<0.02	
1/18/2019			0.0025 (J)						
1/21/2019									
3/25/2019	<0.05 (O)	<0.02				0.0078 (J)			
3/26/2019				<0.02	<0.02		<0.02	<0.02	0.0057 (J)
3/27/2019			0.0026 (J)						
7/30/2019									
10/7/2019		0.0077 (J)							
10/8/2019	0.095				0.0051 (J)		0.0052 (J)	0.01	
10/9/2019			0.0054 (J)	0.0057 (J)		0.0064 (J)			0.011
4/6/2020	<0.02	<0.02							
4/7/2020				<0.02	<0.02	<0.02	<0.02	<0.02	
4/8/2020			<0.02						<0.02
9/28/2020	0.16	0.0092 (J)		0.0092 (J)					
9/29/2020							<0.02		
9/30/2020					0.032			0.0051 (J)	0.0043 (J)
10/1/2020			0.025			0.0064 (J)			
3/10/2021			<0.02	<0.02		<0.02			
3/11/2021	0.054								0.0056 (J)
3/12/2021		0.0028 (J)			<0.02				
3/15/2021									
3/16/2021							<0.02	<0.02	
9/21/2021	<0.02	<0.02				<0.02			
9/22/2021			<0.02				0.01	<0.02	<0.02
9/23/2021				<0.02	<0.02				
1/31/2022	<0.02	<0.02							
2/1/2022								<0.02	0.011
2/2/2022			<0.02			<0.02	<0.02		
2/3/2022				<0.02	<0.02				
8/30/2022	0.011 (J)	<0.02				<0.02	<0.02		
8/31/2022					0.00395 (J)				0.0068 (J)
9/1/2022			0.0163 (J)	0.00578 (J)				0.0119 (J)	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-22	GWC-20	GWC-21
9/29/2000	<0.02	<0.02	0.026 (O)		0.38 (O)	<0.02 (O)			
11/21/2000	<0.02	<0.02	<0.02	0.021 (O)	0.077 (O)	0.024 (O)			
1/20/2001	<0.02	<0.02	0.031 (O)	<0.02	0.23 (O)	<0.02 (O)			
3/14/2001	<0.02	<0.02	0.063 (O)	<0.02	0.24 (O)	<0.02 (O)			
7/16/2001	<0.02	<0.02	0.08 (O)	<0.02	0.053 (O)	<0.02 (O)			
11/1/2001	<0.02	0.044 (O)	0.16 (O)	<0.02	0.022 (O)	<0.02 (O)			
4/25/2002	<0.02	<0.02	<0.02	<0.02	1.2 (O)	<0.02 (O)			
11/20/2002	<0.02	0.023	0.14 (O)	<0.02	0.045 (O)	0.028 (O)			
6/6/2003	<0.02	<0.02	0.51 (O)	<0.02	0.042 (O)	0.032 (O)			
12/12/2003	0.013	<0.02	<0.02	<0.02	<0.02	<0.01 (O)			
5/26/2004	<0.02	0.035	0.036 (O)	<0.02	<0.02	<0.01 (O)			
12/7/2004	0.028 (O)	0.018	0.069 (O)	<0.02	<0.02	0.012 (O)			
6/21/2005	<0.02	0.014	0.076 (O)	<0.02	<0.02	<0.01 (O)			
12/12/2005	<0.02	0.023	<0.02	0.012	<0.02	<0.01 (O)			
4/4/2006									
6/27/2006	0.0028	0.023	0.01	<0.02	0.012 (O)	0.0071			
8/30/2006									
12/4/2006	0.0028	0.046 (O)	0.0035	<0.02	0.0067	0.0096			
2/15/2007									
6/23/2007	0.0063	0.036	0.0032	<0.02	0.025 (O)	0.094 (O)			
9/11/2007									
12/11/2007	<0.02	0.011	0.0079	<0.02	0.0038	0.042 (O)			
3/11/2008									
6/23/2008	<0.02	0.0091			0.0051				
6/24/2008			<0.02	<0.02		0.098 (O)			
11/3/2008									
12/4/2008	<0.02	0.0038		<0.02	<0.02				
12/5/2008			<0.02			0.047 (O)			
3/25/2009									
7/7/2009			<0.02			0.024 (O)			
7/8/2009	<0.02	<0.02		<0.02	<0.02				
9/14/2009									
12/20/2009				<0.02					
12/21/2009	<0.02	0.0032	<0.02		0.013 (O)	0.049 (O)			
3/4/2010									
6/20/2010	<0.02	<0.02	<0.02	<0.02	<0.02	0.045 (O)			
6/21/2010							<0.02	<0.02	0.04 (O)
9/14/2010									
1/6/2011	<0.02	0.004	<0.02	<0.02					
1/7/2011					0.004	0.0044	0.019	<0.02	<0.02
4/15/2011									
7/7/2011	<0.02	0.0037	0.0027		0.0028	0.003		<0.02	
7/8/2011							0.1 (O)	0.086 (JO)	0.0044
9/25/2011									
1/17/2012	0.0043	0.0031	0.0039	<0.02	0.0043				
1/18/2012						0.0048	0.0051	<0.02	<0.02
4/4/2012									
7/9/2012	<0.02	0.003	<0.02	<0.02	<0.02				
7/10/2012						<0.02	0.01	<0.02	<0.02
10/9/2012									
1/17/2013	0.0025	<0.02	<0.02	<0.02	0.0033				
1/18/2013						0.0028	0.0036	0.0032	<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-22	GWC-20	GWC-21
4/5/2013									
7/16/2013	<0.02	0.0029	0.0032		0.0028				
7/17/2013				<0.02		<0.02	0.0025	<0.02	<0.02
10/11/2013									
1/13/2014	0.0025	0.0025	0.0025	0.0025	0.0025				
1/14/2014						0.0025	0.0025	0.0025	0.0025
4/3/2014									
7/8/2014	0.0011 (J)	0.0018 (J)			0.002 (J)				
7/9/2014			0.00076 (J)	0.00058 (J)		0.00093 (J)			0.00084 (J)
7/10/2014							0.024	<0.02	
10/24/2014									
1/12/2015								<0.02	
1/13/2015	0.0021 (J)	0.0028	0.0036	0.0024 (J)	0.0079				
1/14/2015						0.0023 (J)	0.0016 (J)		0.0018 (J)
5/10/2015									
5/11/2015									
7/16/2015	<0.02	0.0018 (J)	<0.02	<0.02	0.0026				
7/17/2015						<0.02			<0.02
7/18/2015							0.014	<0.02	
10/6/2015									
1/17/2016				<0.02				<0.02	<0.02
1/18/2016		0.0017 (J)	<0.02		0.0025	0.0029	<0.02		
1/19/2016	0.0029								
4/26/2016									
7/26/2016	<0.02	0.0028 (J)							
7/27/2016			0.0015 (J)	0.0018 (J)	0.0021 (J)				
7/28/2016						<0.02		<0.02	<0.02
7/29/2016							0.0129		
10/24/2016									
10/25/2016								<0.02	
1/3/2017			<0.02						
1/4/2017	<0.02				0.0025 (J)		0.006 (J)	<0.02	<0.02
1/5/2017		0.0021 (J)		<0.02		<0.02			
1/6/2017									
4/3/2017									
4/4/2017				0.0015 (J)				<0.02	0.0015 (J)
4/5/2017					0.0026 (J)				
4/6/2017	0.004 (J)	0.0027 (J)	0.0023 (J)			0.0032 (J)	0.0031 (J)		
7/10/2017					0.0023 (J)				
7/11/2017	<0.02						0.0029 (J)	<0.02	
7/12/2017		0.0043 (J)	<0.02			0.002 (J)			
7/13/2017				0.0014 (J)					0.002 (J)
10/2/2017								<0.02	
10/3/2017									
10/4/2017									
1/9/2018						0.0036 (J)			0.0016 (J)
1/10/2018		0.0021 (J)	0.0022 (J)	<0.02				0.0034 (J)	
1/11/2018	0.0018 (J)				0.0031 (J)		0.0106		
7/9/2018								<0.02	
7/10/2018			<0.02	<0.02		0.0055 (J)			<0.02
7/11/2018	<0.02	0.0039 (J)			0.0036 (J)		0.0057 (J)		
1/16/2019		0.047	<0.02			<0.02			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/28/2022 10:41 AM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-22	GWC-20	GWC-21
1/17/2019	<0.02				0.0032 (J)				<0.02
1/18/2019							0.0024 (J)		
1/21/2019				<0.02				<0.02	
3/25/2019								<0.02	
3/26/2019		0.03	<0.02			<0.02			<0.02
3/27/2019	<0.02				0.0031 (J)		<0.02		
7/30/2019				0.0067 (J)					
10/7/2019									
10/8/2019	0.0061 (J)	0.053							0.0071 (J)
10/9/2019			0.0081 (J)	0.005 (J)	0.0057 (J)	0.016 (J)	0.0079 (J)	0.0049 (J)	
4/6/2020									
4/7/2020	<0.02		<0.02		<0.02	<0.02	<0.02		<0.02
4/8/2020		0.023		<0.02				<0.02	
9/28/2020		0.016							
9/29/2020	0.0031 (J)			0.056	0.0074 (J)				
9/30/2020			<0.02			<0.02	<0.02	0.031	0.0096 (J)
10/1/2020									
3/10/2021	<0.02		<0.02		<0.02	<0.02	<0.02		
3/11/2021									
3/12/2021								<0.02	
3/15/2021		0.039		<0.02					
3/16/2021									<0.02
9/21/2021	<0.02	0.036	<0.02		<0.02	<0.02	<0.02		
9/22/2021				<0.02				<0.02	<0.02
9/23/2021									
1/31/2022									
2/1/2022								<0.02	<0.02
2/2/2022				<0.02		<0.02			
2/3/2022	<0.02	0.037	<0.02		<0.02		<0.02		
8/30/2022			<0.02		0.0262	0.0132 (J)		0.0171 (J)	0.00814 (J)
8/31/2022	<0.02	0.0266					<0.02		
9/1/2022				0.0125 (J)					

FIGURE E.

Appendix I Trend Tests - Prediction Limit Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:43 AM

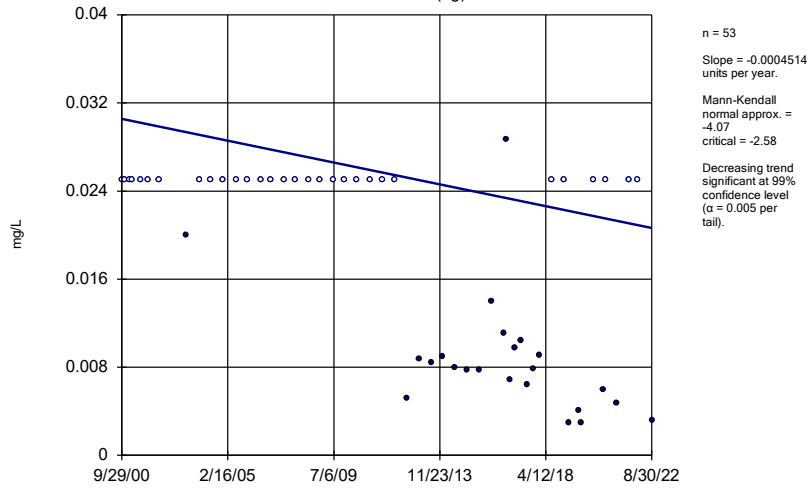
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0004514	-4.07	-2.58	Yes	53	56.6	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.799	-2.58	Yes	74	91.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005378	8.362	2.58	Yes	54	46.3	n/a	n/a	0.01	NP

Appendix I Trend Tests - Prediction Limit Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:43 AM

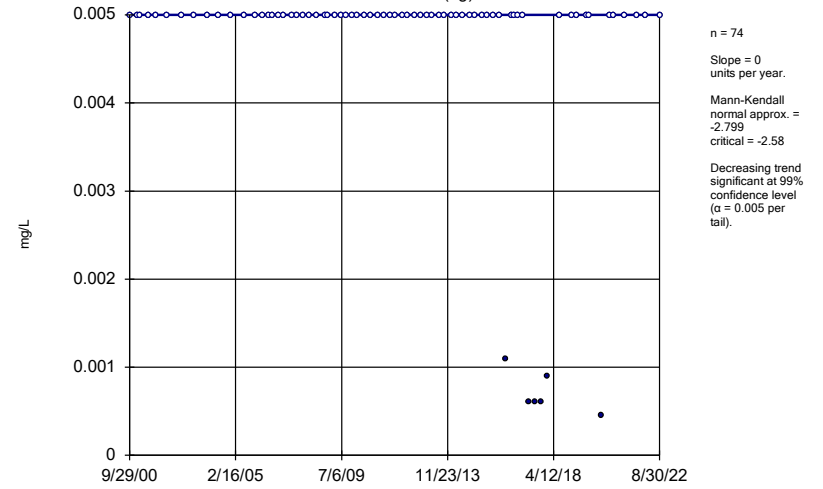
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0004514	-4.07	-2.58	Yes	53	56.6	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.799	-2.58	Yes	74	91.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005378	8.362	2.58	Yes	54	46.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.000927	-2.349	-2.58	No	73	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.009885	118	167	No	33	3.03	n/a	n/a	0.01	NP

Sen's Slope Estimator GWA-7 (bg)



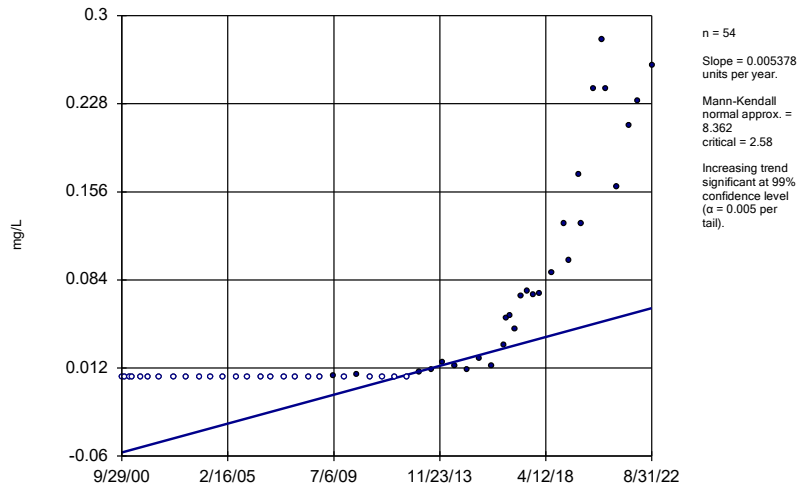
Constituent: Arsenic Analysis Run 9/28/2022 10:43 AM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-8 (bg)



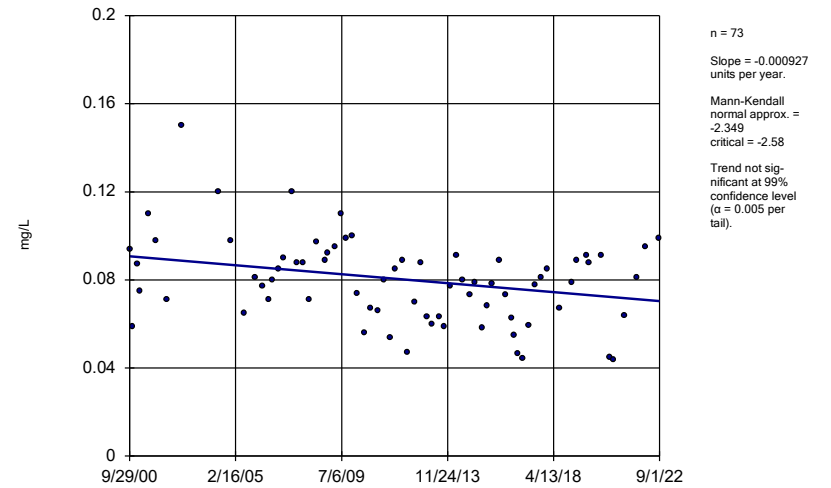
Constituent: Arsenic Analysis Run 9/28/2022 10:43 AM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-15



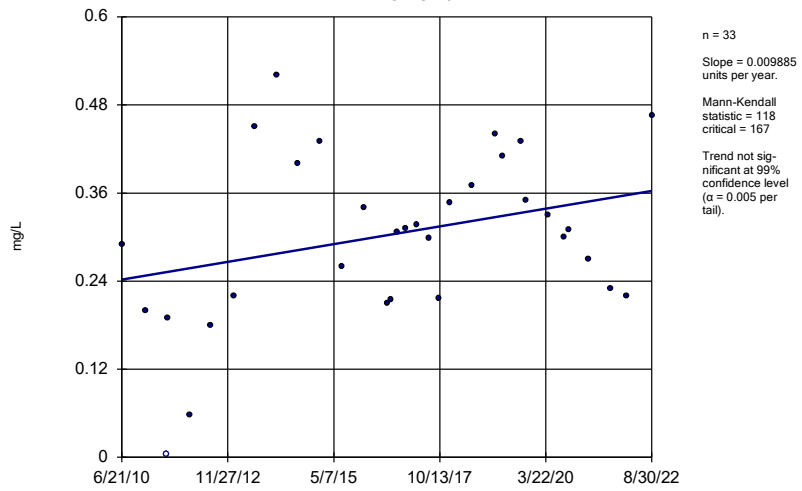
Constituent: Arsenic Analysis Run 9/28/2022 10:43 AM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-16



Constituent: Arsenic Analysis Run 9/28/2022 10:43 AM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-20



Constituent: Arsenic Analysis Run 9/28/2022 10:43 AM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE F.

Appendix III Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	8/30/2022	79.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/30/2022	70.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/30/2022	81.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	9/1/2022	46.9	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/31/2022	115	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/30/2022	70.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/30/2022	144	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/31/2022	135	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/1/2022	255	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/31/2022	102	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/30/2022	193	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/30/2022	131	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/31/2022	694	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.4247	n/a	8/31/2022	0.442	Yes	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-12	6.43	4.23	8/30/2022	3.92	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	8/31/2022	6.57	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/30/2022	379	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/30/2022	403	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/30/2022	978	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	8/31/2022	653	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	8/30/2022	415	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	8/30/2022	410	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/1/2022	1140	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/31/2022	721	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	8/30/2022	606	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	8/30/2022	451	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/30/2022	4.95	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/30/2022	4.66	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/30/2022	7.13	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	9/1/2022	0.728	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	8/31/2022	1.65	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	8/30/2022	8.21	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/31/2022	0.231	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	8/30/2022	0.046	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	8/31/2022	0.719	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	9/1/2022	15.9	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	8/31/2022	2.51	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	9/1/2022	0.0204	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	8/30/2022	8.14	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	8/30/2022	5.08	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/31/2022	0.271	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	9/1/2022	0.0187	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/30/2022	79.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/30/2022	70.3	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/30/2022	81.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	9/1/2022	46.9	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/31/2022	115	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/30/2022	70.8	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	8/31/2022	2.54	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/30/2022	144	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/31/2022	135	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/1/2022	255	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/31/2022	102	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	9/1/2022	0.236	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/30/2022	193	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/30/2022	131	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/31/2022	23.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	9/1/2022	5	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/30/2022	65	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/30/2022	76.8	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/30/2022	52	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	9/1/2022	9.17	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	8/31/2022	110	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	8/30/2022	58.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/31/2022	6.69	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	8/30/2022	26.7	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	8/31/2022	4.83	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	9/1/2022	57.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/31/2022	694	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	9/1/2022	6.59	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	8/30/2022	24.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	8/30/2022	29.4	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/31/2022	51.2	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	9/1/2022	17.6	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-5R	0.4247	n/a	8/30/2022	0.0428J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-6R	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-1	0.4247	n/a	9/1/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-11	0.4247	n/a	8/31/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-12	0.4247	n/a	8/30/2022	0.273	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-13	0.4247	n/a	8/31/2022	0.051J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-14	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2

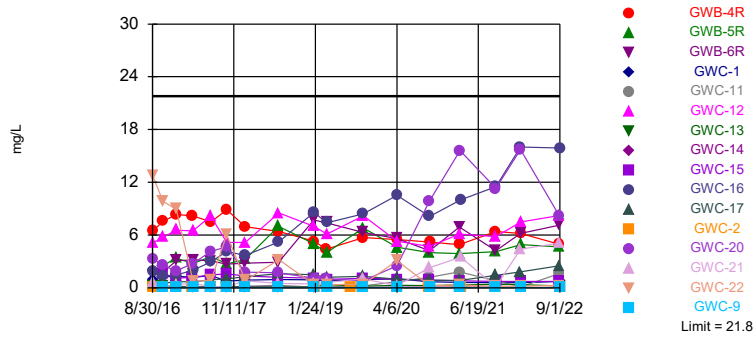
Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWC-15	0.4247	n/a	8/31/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-16	0.4247	n/a	9/1/2022	0.0374J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-17	0.4247	n/a	8/31/2022	0.442	Yes	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-2	0.4247	n/a	9/1/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-20	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-21	0.4247	n/a	8/30/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-22	0.4247	n/a	8/31/2022	0.1ND	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-9	0.4247	n/a	9/1/2022	0.0783J	No	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.0004702	Param Inter 1 of 2
pH (SU)	GWB-4R	6.43	4.23	8/30/2022	5.67	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	8/30/2022	5.22	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	8/30/2022	5.55	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	9/1/2022	5.8	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.23	8/31/2022	4.85	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	8/30/2022	3.92	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.23	8/31/2022	4.76	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	8/30/2022	5.86	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	8/31/2022	6.57	Yes	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.23	9/1/2022	5.37	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	8/31/2022	4.33	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	9/1/2022	4.73	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	8/30/2022	6.01	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	8/30/2022	5.76	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	8/31/2022	4.68	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	9/1/2022	4.6	No	36	n/a	n/a	0	n/a	n/a	0.002622	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/30/2022	379	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/30/2022	403	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/30/2022	978	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	9/1/2022	44	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	8/31/2022	653	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	8/30/2022	415	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	8/31/2022	29	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	8/30/2022	410	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	8/31/2022	88.5	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/1/2022	1140	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/31/2022	721	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	9/1/2022	10.3	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	8/30/2022	606	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	8/30/2022	451	Yes	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	8/31/2022	45.3	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	9/1/2022	28.7	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	3660	n/a	8/30/2022	882	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	3660	n/a	8/30/2022	886	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	3660	n/a	8/30/2022	1810	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	3660	n/a	9/1/2022	228	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	3660	n/a	8/31/2022	1240	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	3660	n/a	8/30/2022	713	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	3660	n/a	8/31/2022	55	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	3660	n/a	8/30/2022	720	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	3660	n/a	8/31/2022	530	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	3660	n/a	9/1/2022	1720	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	3660	n/a	8/31/2022	2050	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	3660	n/a	9/1/2022	9J	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	3660	n/a	8/30/2022	1210	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	3660	n/a	8/30/2022	807	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	3660	n/a	8/31/2022	163	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	3660	n/a	9/1/2022	85	No	34	n/a	n/a	0	n/a	n/a	0.001453	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

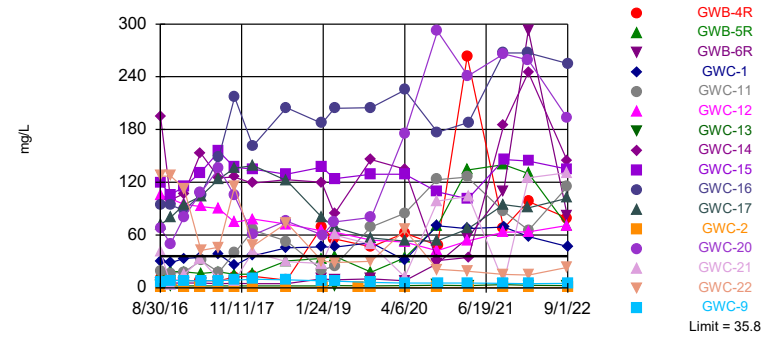


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. Annual per-constituent alpha = 0.04548. Individual comparison alpha = 0.001453 (1 of 2). Comparing 16 points to limit.

Constituent: Boron Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20,...

Prediction Limit
Interwell Non-parametric

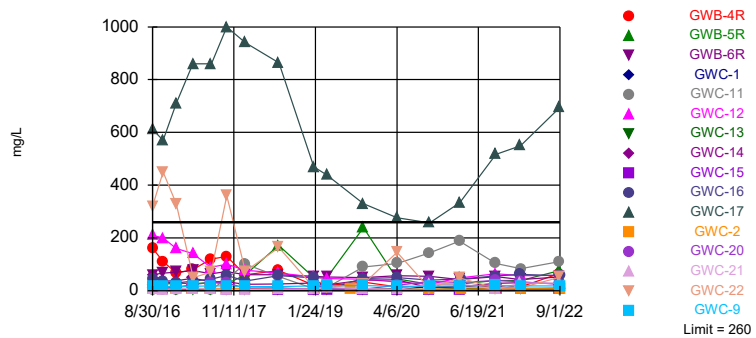


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. Annual per-constituent alpha = 0.04548. Individual comparison alpha = 0.001453 (1 of 2). Comparing 16 points to limit.

Constituent: Calcium Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-17

Prediction Limit
Interwell Non-parametric



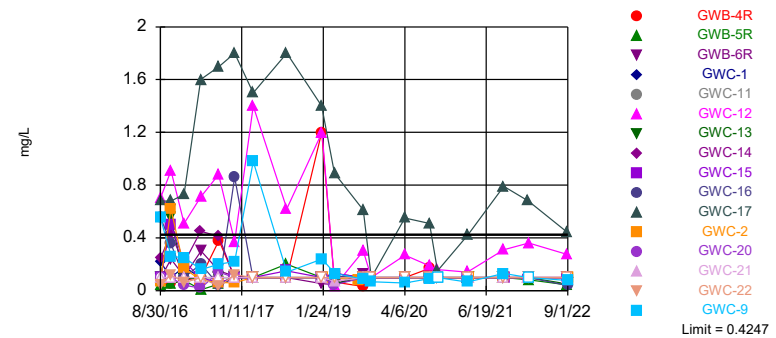
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. Annual per-constituent alpha = 0.04548. Individual comparison alpha = 0.001453 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Exceeds Limit: GWC-17

Prediction Limit
Interwell Parametric

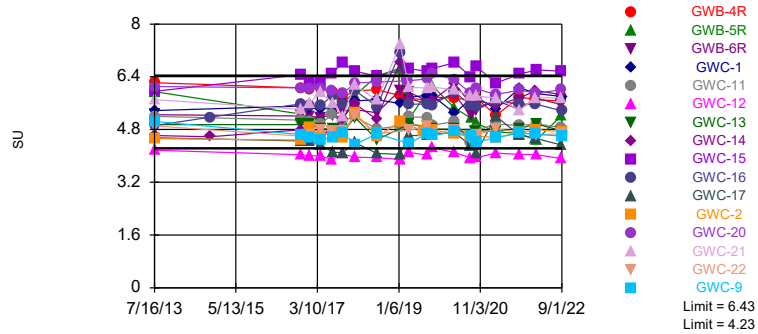


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.348, Std. Dev.=0.6768, n=38, 23.68% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9171, critical = 0.916. Kappa = 2.204 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limits: GWC-12, GWC-15

Prediction Limit
Interwell Non-parametric

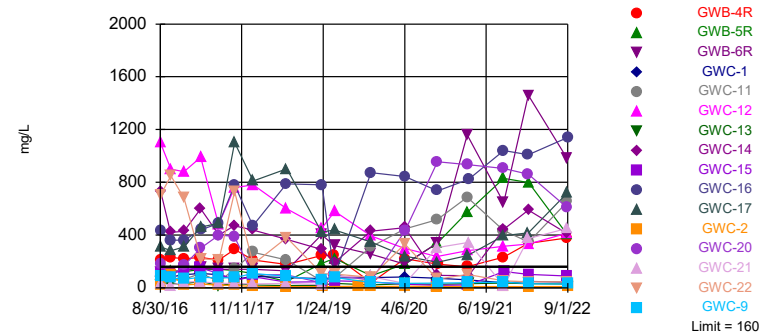


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 36 background values. Annual per-constituent alpha = 0.08222. Individual comparison alpha = 0.002622 (1 of 2). Comparing 16 points to limit.

Constituent: pH Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21

Prediction Limit
Interwell Non-parametric



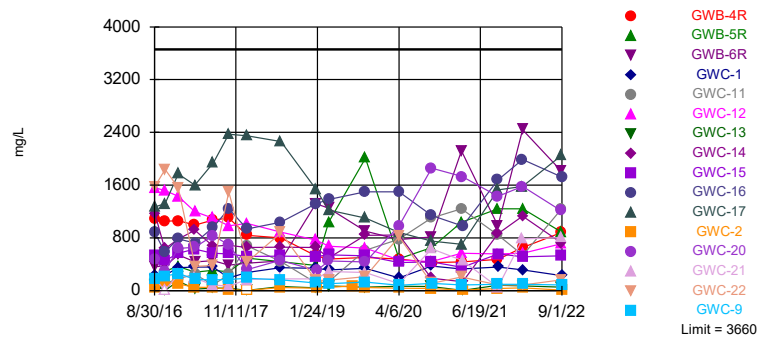
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. Annual per-constituent alpha = 0.04548. Individual comparison alpha = 0.001453 (1 of 2). Comparing 16 points to limit.

Constituent: Sulfate Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. Annual per-constituent alpha = 0.04548. Individual comparison alpha = 0.001453 (1 of 2). Comparing 16 points to limit.

Constituent: Total Dissolved Solids Analysis Run 9/28/2022 10:44 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-22	GWC-2
8/30/2016	1.41	0.875	1.09	0.117					
8/31/2016					0.0688 (J)	5.1	0.261	12.8	0.0196 (J)
9/1/2016									
10/24/2016				0.126					
10/25/2016		1.22							
10/26/2016	1.83		2.5		0.083 (J)	5.74	0.211	9.81	0.05 (J)
10/27/2016									
1/3/2017			3.39	0.124					
1/4/2017		1.3			0.0738	6.56		8.94	
1/5/2017	3.07						0.179		0.0162 (J)
1/6/2017									
4/3/2017				0.105					
4/4/2017		1.19							0.019 (J)
4/5/2017						6.49			
4/6/2017	3.19		2.76		0.0754		0.112	0.733	
7/10/2017						8.13			
7/11/2017				0.136	0.0614			0.852	
7/12/2017	3.06	1.37	3.55				0.0882		
7/13/2017									0.023 (J)
10/2/2017				0.107					
10/3/2017	2.69	0.765	2.72		0.0838				0.0266 (J)
10/4/2017						5.18	0.116	6.05	
1/9/2018	2.81			0.123					
1/10/2018		0.876	3.21				0.101		0.0203 (J)
1/11/2018					0.169	5.16		0.838	
7/9/2018				0.11					
7/10/2018	2.9	0.94	7						0.026 (J)
7/11/2018					0.3	8.5	0.098	3.2	
1/16/2019	7.7	0.91	5	0.13			0.11		
1/17/2019					0.065	7			
1/18/2019								0.37	
1/21/2019									0.018 (J)
3/25/2019				0.098					
3/26/2019	7.4	0.77	4				0.35		
3/27/2019					0.089	6.1		0.37	
7/30/2019									0.02 (J)
10/7/2019				0.12					
10/8/2019					0.22		0.18		
10/9/2019	6.3	0.93	6.8			8.2		0.39	0.024 (J)
4/6/2020				0.14					
4/7/2020	5.6	1	4.6		0.67	5.3		3.1	
4/8/2020							0.28		0.031 (J)
9/28/2020		0.69		0.15			0.24		
9/29/2020					1.2	4.7			0.024 (J)
9/30/2020	4.2		4					0.25	
10/1/2020									
3/10/2021	6.9	0.63	3.9		1.8	6.1		0.32	
3/11/2021									
3/12/2021				0.11					
3/15/2021							0.31		0.084
3/16/2021									
9/21/2021	4.2		4.1	0.13	0.8	5.8	0.38	0.19	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-22	GWC-2
9/22/2021									0.017 (J)
9/23/2021		0.59							
1/31/2022				0.13					
2/1/2022									
2/2/2022	6.2								0.023 (J)
2/3/2022		0.59	4.9		0.1	7.5	0.37	0.18	
8/30/2022	7.13		4.66	0.152		8.21			
8/31/2022					1.65		0.231	0.271	
9/1/2022		0.728							0.0204

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-4R	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21	GWC-15	GWC-9
8/30/2016									
8/31/2016									0.096 (JO)
9/1/2016	0.071 (J)	6.48	1.82	0.408	3.34	11.6	0.62	9.01 (O)	
10/24/2016									
10/25/2016	0.0819 (J)		1.26		2.54	21.4	0.0658 (J)	1.66	
10/26/2016		7.57		0.5					
10/27/2016									0.0281 (J)
1/3/2017									
1/4/2017			1.46		1.91		0.36		
1/5/2017	0.0813			0.676				1.1	
1/6/2017		8.34				20.1			0.0189 (J)
4/3/2017								1.21	
4/4/2017	0.0723	8.18			2.77		0.509		
4/5/2017			2	0.69					
4/6/2017						21.8			0.0181 (J)
7/10/2017									
7/11/2017	0.0734				4.14			1.44	
7/12/2017		7.51	2.95						0.0211 (J)
7/13/2017				0.888		16.3	0.126		
10/2/2017	0.0748				4.65			1.59	
10/3/2017			4.15				0.1		
10/4/2017		8.88		1.02		21.5			0.0254 (J)
1/9/2018	0.0679					13.9	0.783	1.35	
1/10/2018			3.68		1.79				
1/11/2018		6.95		1.28					0.018 (J)
7/9/2018	0.061				1.7				
7/10/2018			5.2				0.5	1.2	
7/11/2018		6.4		1.6		11.7			0.02 (J)
1/16/2019	0.046	5.3		1.5		9.3			
1/17/2019			8.6				0.43	1.1	
1/18/2019									0.018 (J)
1/21/2019					1.1				
3/25/2019		4.4			1	8.5			
3/26/2019	0.037 (J)		7.4	1.2			0.61	0.95	
3/27/2019									0.016 (J)
7/30/2019									
10/7/2019									
10/8/2019	0.048		8.4			6.4	1	1.1	
10/9/2019		5.7		1.3	0.79				0.019 (J)
4/6/2020						6.1			
4/7/2020	0.061 (J)	5.5	10.5				0.24	0.96	
4/8/2020				0.99	2.5				0.023 (J)
9/28/2020						4.6			
9/29/2020	0.053								
9/30/2020			8.1	0.86	9.9		2.3	0.86	
10/1/2020		5.2							0.028 (J)
3/10/2021		4.9							0.022 (J)
3/11/2021				0.85		8			
3/12/2021					15.6			0.81	
3/15/2021									
3/16/2021	0.08		10				3.5		
9/21/2021		6.4				4.4			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-4R	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21	GWC-15	GWC-9
9/22/2021	0.052		11.5	1.4	11.3		0.095		0.015 (J)
9/23/2021								0.72	
1/31/2022						3.9			
2/1/2022			16	1.8	15.7		4.4		
2/2/2022	0.044	6.2							0.011 (J)
2/3/2022								0.71	
8/30/2022	0.046	4.95			8.14	5.72	5.08		
8/31/2022				2.51				0.719	
9/1/2022			15.9						0.0187

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
8/30/2016	14.3	4.68	23.8	29.4					
8/31/2016					2.77	127	105	0.371 (J)	18.8
9/1/2016									
10/24/2016			22.5						
10/25/2016				28.3					
10/26/2016	18.6	5.45			2.25	127	101	5.84	16.6
10/27/2016									
1/3/2017	18.1		22.1						
1/4/2017				33.4		113	94.9		17.6
1/5/2017		5.35			2.27			0.379 (J)	
1/6/2017									
4/3/2017			24.6 (J)						
4/4/2017				34.6				0.993	
4/5/2017							92.5		
4/6/2017	16.2	5.41			2.04	42.7			30.9
7/10/2017							90.3		
7/11/2017			23.5			46			17.7
7/12/2017	18.1	4.81		38	2.25				
7/13/2017								0.388 (J)	
10/2/2017			22.7						
10/3/2017	15.2	5.17		25.5				0.251 (J)	39.8
10/4/2017					2.19	115	74.6		
1/9/2018		4.73	23.2						
1/10/2018	15.5			36.5	2.28			0.177 (J)	
1/11/2018						47.6	78.1		65.6
7/9/2018			24.6 (J)						
7/10/2018	30.6	4.5		45.5				0.17 (J)	
7/11/2018					2.3	73.7	72.2		53
1/16/2019	33.3	10.1	27.7	46.5	2.3				
1/17/2019							64.7		19.8 (J)
1/18/2019						30.6			
1/21/2019								0.19 (J)	
3/25/2019			31.7						
3/26/2019	36.1	9		46.3	2.4				
3/27/2019						28.8	63.1		25.1
7/30/2019								0.43	
10/7/2019			31.6						
10/8/2019					2.3				69.2
10/9/2019	17.7	10.1		51.2		30.1	54.2	0.18	
4/6/2020			35.8						
4/7/2020	34.1	7.8		31.1		65.7	52.1		84.7
4/8/2020					2.5			0.24 (J)	
9/28/2020			25.6	70.7	2.9				
9/29/2020							42	0.18 (J)	123
9/30/2020	70.4	27.5				20.9			
10/1/2020									
3/10/2021	134	55.9		67.2		18.7	53.1		126
3/11/2021									
3/12/2021			21.4						
3/15/2021					2.4			0.22 (J)	
3/16/2021									
9/21/2021	140	110	18.5		3.6	15.3	63.4		87

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
9/22/2021								0.19 (J)	
9/23/2021				69.1					
1/31/2022			17.2						
2/1/2022									
2/2/2022		293						0.16 (J)	
2/3/2022	130			58.2	2.7	14.6	63.7		65.4
8/30/2022	70.3	81.8	15				70.8		
8/31/2022					2.54	23.2			115
9/1/2022				46.9				0.236	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
8/30/2016									
8/31/2016	6.9								
9/1/2016		5.59	40.5	67.2	71.9	9.91	93.8	194	119
10/24/2016									
10/25/2016		6.43	3.91	50.1			94.1	100	106
10/26/2016					80.3	8.56			
10/27/2016	8.2								
1/3/2017									
1/4/2017			15.2	80.4			88.2		
1/5/2017					94.4			107	115
1/6/2017	7.97	8.13				8.18			
4/3/2017									131
4/4/2017			32.3	108		8.12		153	
4/5/2017					104		106		
4/6/2017	7.95	7.72							
7/10/2017									
7/11/2017				136				125	155
7/12/2017	8.37					8	149		
7/13/2017		4.57	8.92		124				
10/2/2017				105				126	137
10/3/2017			7.88				217		
10/4/2017	8.57	6.41			136	12.5			
1/9/2018		4.68	40.5					119	135
1/10/2018				60.1			161		
1/11/2018	9.78				139	12.9			
7/9/2018				75.9				123	
7/10/2018			29.8				205		129
7/11/2018	9.2	3.9			122	8.6			
1/16/2019		4.3			80.5	68.8		120	
1/17/2019			27.6				187		137
1/18/2019	8.1								
1/21/2019				60					
3/25/2019		3.9		74.8		55.6			
3/26/2019			60.1		68.8		204	84.2	124
3/27/2019	7.7								
7/30/2019									
10/7/2019									
10/8/2019		3.5	49.5				205	146	129
10/9/2019	6			80.1	56.6	46.7			
4/6/2020		3.1							
4/7/2020			12.5			62.1	225	135	129
4/8/2020	5.3			175	53.1				
9/28/2020		3.3							
9/29/2020								30.8	
9/30/2020			98.4	292	53.5		177		109
10/1/2020	5.5					48.4			
3/10/2021	5.3					263			
3/11/2021		2.4			67				
3/12/2021				241					101
3/15/2021									
3/16/2021			104				188	34.4	
9/21/2021		2.7				67.5			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
9/22/2021	5		5.8	266	94.6		267	185	
9/23/2021									146
1/31/2022		3.4							
2/1/2022			125	259	90.8		267		
2/2/2022	4.6					98.2		245	
2/3/2022									144
8/30/2022		3.56	131	193		79.3		144	
8/31/2022					102				135
9/1/2022	5						255		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
8/30/2016	31	60	15	5.5					
8/31/2016					4.3	320	210	7.8	3.5
9/1/2016									
10/24/2016			13						
10/25/2016				5.1					
10/26/2016	24	67			4.9	450	200	12	2.5
10/27/2016									
1/3/2017	29		13						
1/4/2017				6.9		330	160		3.8
1/5/2017		70			4.1			7.4	
1/6/2017									
4/3/2017			14						
4/4/2017				6.5				8.7	
4/5/2017							140		
4/6/2017	27	76			3.7	50			7.1
7/10/2017							88		
7/11/2017			13			70			3.1
7/12/2017	31	64		6.5	2.6				
7/13/2017								8.3	
10/2/2017			15						
10/3/2017	27	73		4.5				9	46
10/4/2017					3	360	100		
1/9/2018		61	13						
1/10/2018	59			6.9	3.4			8.2	
1/11/2018						74	78		100
7/9/2018			15.4						
7/10/2018	172	60.2		6.2				7.3	
7/11/2018					3.2	164	66.9		53.7
1/16/2019	49.7	54.1	16	6.6	3.8				
1/17/2019							52		6.6
1/18/2019						11			
1/21/2019								6.9	
3/25/2019			17.7						
3/26/2019	47.9	51.8		7	3.2				
3/27/2019						11.5	45.6		11.9
7/30/2019								7.1	
10/7/2019			18						
10/8/2019					4				89
10/9/2019	239	49.7		7.2		25.3	44.1	7	
4/6/2020			13.5						
4/7/2020	44.3	56.4		7.7		146	32.5		103
4/8/2020					4.5			5.2	
9/28/2020			13.7	13.8	4.3				
9/29/2020							24.3	5.4	143
9/30/2020	24.1	53.9				8.5			
10/1/2020									
3/10/2021	25.7	42.4		8.5		48.2	48.7		188
3/11/2021									
3/12/2021			14.1						
3/15/2021					7.6			6.4	
3/16/2021									
9/21/2021	38.8	53.8	12.2		7.9	9.4	63.8		103

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
9/22/2021								7.4	
9/23/2021				8.8					
1/31/2022			11.2						
2/1/2022									
2/2/2022		42.3						6.9	
2/3/2022	38.5			8	8.8	10.8	57		83.4
8/30/2022	76.8	52	9.93				58.4		
8/31/2022					6.69	51.2			110
9/1/2022				9.17				6.59	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
8/30/2016									
8/31/2016	17								
9/1/2016		190	5.9	16	610	160	43	60	10
10/24/2016									
10/25/2016		175 (D)	4.4	8.1			34	36	6.5
10/26/2016					570	110			
10/27/2016	17								
1/3/2017									
1/4/2017			7.7	13			29		
1/5/2017					710			37	10
1/6/2017	16	180				67			
4/3/2017									7.3
4/4/2017			8	23		80		47	
4/5/2017					860		36		
4/6/2017	17	200							
7/10/2017									
7/11/2017				31				34	5.7
7/12/2017	18					120	44		
7/13/2017		200	5.4		860				
10/2/2017				30				34	4.4
10/3/2017			4.4				58		
10/4/2017	18	260			1000	130			
1/9/2018		210	4.4					24	5.7
1/10/2018				9.7			36		
1/11/2018	16				940	60			
7/9/2018				10.8				25.9	
7/10/2018			6.3				57		3.1
7/11/2018	16.2	177			864	75.9			
1/16/2019		165			469	20.2		29.2	
1/17/2019			5.4				48.9		3.2
1/18/2019	17.5								
1/21/2019				5.1					
3/25/2019		147		9.4		19.7			
3/26/2019			11.9		439		5.1	21.1	3
3/27/2019	18.9								
7/30/2019									
10/7/2019									
10/8/2019		125	7.8				46.4	40.2	2.9
10/9/2019	19			5.4	330	32.1			
4/6/2020		30.2							
4/7/2020			4.7			14.5	49.3	41.6	3.4
4/8/2020	16.9			20.2	277				
9/28/2020		113							
9/29/2020								10.6	
9/30/2020			23.7	34.9	257		39.6		1.7
10/1/2020	16.8					15.7			
3/10/2021	18.3					16			
3/11/2021		96.7			334				
3/12/2021				31.9					2.3
3/15/2021									
3/16/2021			25.3				44.9	15.8	
9/21/2021		92.2				13.9			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
9/22/2021	19.3		6	38.9	517		55.8	28	
9/23/2021									7.1
1/31/2022		83.4							
2/1/2022			29.3	33.4	549		61.5		
2/2/2022	17.5					14.5		29.6	
2/3/2022									5.1
8/30/2022		74.4	29.4	24.4		65		26.7	
8/31/2022					694				4.83
9/1/2022	17.6						57.2		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-2	GWC-22	GWC-11	GWC-9	GWC-12
8/30/2016	0.04 (J)	0.09 (J)	0.22 (J)	0.1 (J)					
8/31/2016					0.07 (J)	0.04 (J)	<0.1	0.55	0.7
9/1/2016									
10/24/2016				0.18 (J)					
10/25/2016			<0.1						
10/26/2016	0.05 (J)	0.24 (J)			0.62	0.12 (J)	<0.1		0.91
10/27/2016								0.26 (J)	
1/3/2017	0.08 (J)			0.18 (J)					
1/4/2017			0.18 (J)			0.06 (J)	<0.1		0.51
1/5/2017		0.11 (J)			0.17 (J)				
1/6/2017								0.25 (J)	
4/3/2017				0.12 (J)					
4/4/2017			<0.1		0.08 (J)				
4/5/2017									0.71
4/6/2017	0.006 (J)	0.3				<0.1	<0.1	0.16 (J)	
7/10/2017									0.88
7/11/2017				0.39		0.03 (J)	<0.1		
7/12/2017	0.05 (J)	0.15 (J)	0.04 (J)					0.2 (J)	
7/13/2017					0.06 (J)				
10/2/2017				0.12 (J)					
10/3/2017	0.11 (J)	0.11 (J)	<0.1		0.06 (J)		<0.1		
10/4/2017						0.12 (J)		0.22 (J)	0.37
1/9/2018		<0.1		0.21 (J)					
1/10/2018	<0.1		<0.1		<0.1				
1/11/2018						<0.1	<0.1	0.98	1.4
7/9/2018				0.04 (J)					
7/10/2018	0.2 (J)	<0.1	<0.1		<0.1				
7/11/2018						<0.1	<0.1	0.14 (J)	0.62
1/16/2019	<0.1	0.053 (J)	<0.1	<0.1					
1/17/2019							<0.1		1.2
1/18/2019						<0.1		0.24 (J)	
1/21/2019					<0.1				
3/25/2019				0.082 (J)					
3/26/2019	<0.1	0.046 (J)	0.051 (J)						
3/27/2019						<0.1	<0.1	0.13 (J)	0.036 (J)
7/30/2019					0.083 (J)				
8/26/2019				0.13					
8/27/2019		0.13 (J)	<0.1		<0.1	0.1	<0.1		0.3
8/28/2019	0.097 (J)							0.088 (J)	
10/7/2019				<0.1					
10/8/2019							<0.1		
10/9/2019	<0.1	<0.1	<0.1		<0.1	<0.1		0.068 (J)	<0.1
4/6/2020				0.089 (J)					
4/7/2020	<0.1	<0.1	<0.1			<0.1	<0.1		0.27 (J)
4/8/2020					<0.1			0.058 (J)	
8/17/2020				0.079 (J)					0.19
8/18/2020					<0.1	<0.1	<0.1		
8/19/2020	<0.1	<0.1	<0.1					0.092 (J)	
9/28/2020			<0.1	<0.1					
9/29/2020					<0.1		<0.1		0.16
9/30/2020	<0.1	<0.1				<0.1			
10/1/2020								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-2	GWC-22	GWC-11	GWC-9	GWC-12
3/10/2021	<0.1	<0.1	<0.1			<0.1	<0.1	0.066 (J)	0.14
3/11/2021									
3/12/2021				0.087 (J)					
3/15/2021					<0.1				
3/16/2021									
9/21/2021	<0.1	<0.1		0.068 (J)		<0.1	<0.1		0.31
9/22/2021					<0.1			0.13	
9/23/2021			<0.1						
1/31/2022				0.09 (J)					
2/1/2022									
2/2/2022		<0.1			<0.1			<0.1	
2/3/2022	0.081 (J)		<0.1			<0.1	<0.1		0.36
8/30/2022	0.0428 (J)	<0.1		0.0759 (J)					0.273
8/31/2022						<0.1	<0.1		
9/1/2022			<0.1		<0.1			0.0783 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-16	GWC-21	GWC-15	GWB-4R	GWC-14	GWC-17	GWA-7 (bg)	GWC-20
8/30/2016									
8/31/2016	<0.1								
9/1/2016		0.55	<0.1	<0.1	<0.1	0.25 (J)	0.68	<0.1	<0.1
10/24/2016									
10/25/2016		0.36	<0.1	0.5		0.43		0.07 (J)	<0.1
10/26/2016	0.55				0.05 (J)		0.68		
10/27/2016									
1/3/2017									
1/4/2017		0.1 (J)	<0.1						0.04 (J)
1/5/2017	0.09 (J)			0.22 (J)		0.21 (J)	0.73		
1/6/2017					0.08 (J)			0.2 (J)	
4/3/2017				<0.1					
4/4/2017			<0.1		<0.1	0.45			0.02 (J)
4/5/2017		0.2 (J)					1.6		
4/6/2017	<0.1							0.05 (J)	
7/10/2017									
7/11/2017				0.06 (J)		0.41			0.14 (J)
7/12/2017	<0.1	0.04 (J)			0.38				
7/13/2017			<0.1				1.7	0.41	
10/2/2017				<0.1		<0.1			<0.1
10/3/2017		0.86	<0.1						
10/4/2017	<0.1				<0.1		1.8	0.04 (J)	
1/9/2018			<0.1	<0.1		<0.1		0.46	
1/10/2018	<0.1	<0.1							<0.1
1/11/2018					<0.1		1.5		
7/9/2018						<0.1			<0.1
7/10/2018		<0.1	<0.1	0.15 (J)					
7/11/2018	<0.1				<0.1		1.8	<0.1	
1/16/2019	<0.1				1.2	<0.1	1.4	0.49	
1/17/2019		<0.1	<0.1	<0.1					
1/18/2019									
1/21/2019									<0.1
3/25/2019					0.064 (J)			0.21 (J)	0.043 (J)
3/26/2019	0.052 (J)	0.11 (J)	0.071 (J)	0.13 (J)		0.13 (J)	0.89		
3/27/2019									
7/30/2019									
8/26/2019								<0.1	
8/27/2019	<0.1			<0.1	0.031 (J)	<0.1			
8/28/2019		<0.1	<0.1				0.61		<0.1
10/7/2019									
10/8/2019	<0.1	<0.1	<0.1	<0.1		<0.1		<0.1	
10/9/2019					<0.1		<0.1		<0.1
4/6/2020								0.13 (J)	
4/7/2020		<0.1	<0.1	<0.1	<0.1	<0.1			
4/8/2020	<0.1						0.55		<0.1
8/17/2020	<0.1								
8/18/2020		<0.1	<0.1	<0.1		<0.1	0.51		<0.1
8/19/2020					0.17			0.21	
9/28/2020	<0.1							0.069 (J)	
9/29/2020						<0.1			
9/30/2020		<0.1	<0.1	<0.1			0.15		<0.1
10/1/2020					<0.1				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-16	GWC-21	GWC-15	GWB-4R	GWC-14	GWC-17	GWA-7 (bg)	GWC-20
3/10/2021					<0.1				
3/11/2021							0.42	<0.1	
3/12/2021				<0.1					<0.1
3/15/2021	<0.1								
3/16/2021		<0.1	<0.1			<0.1			
9/21/2021	<0.1				<0.1			0.077 (J)	
9/22/2021		<0.1	<0.1			<0.1	0.79		<0.1
9/23/2021				<0.1					
1/31/2022								<0.1	
2/1/2022		<0.1	<0.1				0.68		<0.1
2/2/2022					<0.1	<0.1			
2/3/2022	<0.1			<0.1					
8/30/2022			<0.1		<0.1	<0.1		0.0391 (J)	<0.1
8/31/2022	0.051 (J)			<0.1			0.442		
9/1/2022		0.0374 (J)							

Prediction Limit

Constituent: pH (SU) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
7/16/2013	4.62	5.25	5.38	5.2	4.17	4.95	5.96	5.95	4.92
10/11/2014	4.58								5.17
10/24/2016									
10/25/2016	4.79		5.51				6.46		5.58
10/26/2016		5.21		5.08	4.04	4.95		5.27	
10/27/2016									
1/3/2017								5.09	
1/4/2017			5.46	5.06	4.01				5.51
1/5/2017	4.73	5.2				4.97	6.25		
1/6/2017									
4/3/2017							6.25		
4/4/2017	4.68		5.43						
4/5/2017					4	4.81			5.51
4/6/2017		5.17		4.97				5.22	
7/10/2017					3.89				
7/11/2017	4.72			5.26			6.5		
7/12/2017		5.24	5.46			4.83		5.29	5.84
7/13/2017									
10/2/2017	5.13						6.83		
10/3/2017		5.36	5.65	5.07				5.08	5.55
10/4/2017					4.06	4.71			
1/9/2018	5.59	5.4					6.57		
1/10/2018			5.67			5.17		5.83	5.99
1/11/2018				5.18	3.96				
7/9/2018	5.11								
7/10/2018		5.31	5.71				6.42	6.42	5.5
7/11/2018				4.82	3.95	4.49			
1/16/2019	6.82	5.99	5.59			6.45 (O)		6.66	
1/17/2019				4.91	3.89		8.44 (O)		7.13
1/18/2019									
1/21/2019									
3/25/2019									
3/26/2019	5.74	5.94	5.77			4.96	6.65	5.1	5.57
3/27/2019				5.18	4.11				
7/30/2019									
8/26/2019									
8/27/2019	5.58	5.67	5.84	5.17	4.02	4.9	6.57		
8/28/2019								5.95	5.57
10/7/2019									
10/8/2019	5.68			4.93		4.81	6.65		5.54
10/9/2019		5.66	5.82		4.25			6.11	
4/6/2020									
4/7/2020	6.2	5.86	5.3	5.05	4.1		6.83	5.45	5.94
4/8/2020						4.81			
8/17/2020					3.94	4.65			
8/18/2020	5.56			4.41			6.39		5.52
8/19/2020		5.21	5.73					5.14 (D)	
9/28/2020			5.79			4.76			
9/29/2020	5.69			4.77	3.95				
9/30/2020		5.39					6.71	4.99	5.47
10/1/2020									
3/10/2021		5.69	5.42	4.97	4.08			4.73	

Prediction Limit

Constituent: pH (SU) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
3/11/2021									
3/12/2021							6.21		
3/15/2021						4.74			
3/16/2021	5.53								5.67
9/21/2021		5.4		4.92	4.05	4.83		4.68	
9/22/2021	5.76								5.57
9/23/2021			6.06				6.48		
1/31/2022									
2/1/2022									5.57
2/2/2022	5.98	5.75							
2/3/2022			5.89	4.98	4.04	4.97	6.61	4.48	
8/30/2022	5.86	5.55			3.92			5.22	
8/31/2022				4.85		4.76	6.57		
9/1/2022			5.8						5.37

Prediction Limit

Constituent: pH (SU) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
7/16/2013	6.22	4.55	4.52	6.1	5.71	4.91	5.05		
10/11/2014								4.42	
10/24/2016								4.36	
10/25/2016				6.06	5.41				6.17
10/26/2016	6.06	4.45	4.48			4.6			
10/27/2016							4.65		
1/3/2017								4.28	
1/4/2017				6.05	5.6	4.63			
1/5/2017		4.45	4.85						
1/6/2017	6.02						4.56		6.16
4/3/2017								4.29	
4/4/2017	6.08		4.58	6.03	5.94				
4/5/2017		4.33							
4/6/2017						4.79	4.5		6.26
7/10/2017									
7/11/2017				5.96		4.73		4.35	
7/12/2017	5.93						4.56		
7/13/2017		4.11	4.74		5.6				5.99
10/2/2017				5.88				4.32	
10/3/2017			4.57		5.18				
10/4/2017	5.77	4.09				4.74	4.72		6.16
1/9/2018					6.14			4.44	6.43
1/10/2018			5.31	6.21					
1/11/2018	5.98	4.4				5.22	4.34		
7/9/2018				6.24				4.4	
7/10/2018			4.58		5.7				
7/11/2018	6.01	4.07				4.68	4.68		6.1
1/16/2019	5.83	4.05						6.16 (O)	6.05
1/17/2019					7.39				
1/18/2019						6.98 (O)	6.87 (O)		
1/21/2019			5.05	7.73 (O)					
3/25/2019	5.74			6.28				4.4	6.06
3/26/2019		4.62			6.08				
3/27/2019						4.77	4.38		
7/30/2019			4.74						
8/26/2019								4.26	5.91
8/27/2019	5.7		4.77			4.89			
8/28/2019		4.62		6.34	6.05		4.68		
10/7/2019								4.24	
10/8/2019					6.09				5.74
10/9/2019	5.79	4.66	4.79	6.5		4.68	4.62		
4/6/2020								4.52	6.02
4/7/2020	5.74				6	4.8			
4/8/2020		4.71	4.66	6.31			4.73		
8/17/2020								4.23	
8/18/2020		4.31	4.6	5.89	5.82	4.52			
8/19/2020	5.7						4.58		5.81 (D)
9/28/2020								4.41	5.86
9/29/2020			4.6						
9/30/2020		4.08		6.04	5.82	4.63			
10/1/2020	5.75						4.42		
3/10/2021	5.23					4.82	4.55		

Prediction Limit

Constituent: pH (SU) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
3/11/2021		5.2							5.85
3/12/2021				5.86				4.54	
3/15/2021			4.56						
3/16/2021					5.74				
9/21/2021	5.78					4.72		4.44	6.03
9/22/2021		4.63	4.71	6	5.39		4.7		
9/23/2021									
1/31/2022								4.39	5.94
2/1/2022		4.53		5.9	5.76				
2/2/2022	5.71		4.79				4.66		
2/3/2022						4.63			
8/30/2022	5.67			6.01	5.76			4.58	5.98
8/31/2022		4.33				4.68			
9/1/2022			4.73				4.6		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
8/30/2016	100	120	140	87					
8/31/2016					43	700	1100	21	64
9/1/2016									
10/24/2016			160						
10/25/2016				83					
10/26/2016	130	120			29	850	900	100	56
10/27/2016									
1/3/2017	120		140						
1/4/2017				99		680	880		65
1/5/2017		130			32			22	
1/6/2017									
4/3/2017			140						
4/4/2017				110				29	
4/5/2017							990		
4/6/2017	140	150			49	220			110
7/10/2017							480		
7/11/2017			130			210			49
7/12/2017	140	140		100	16				
7/13/2017								20	
10/2/2017			150						
10/3/2017	130	140		63				20	140
10/4/2017					33	730	760		
1/9/2018		140	120						
1/10/2018	110			86	22			9.5	
1/11/2018						180	780		270
7/9/2018			123						
7/10/2018	48.1	128		77.7				8.5	
7/11/2018					17.8	381	598		211
1/16/2019	184	402	129	71.2	20.2				
1/17/2019							454		50.3
1/18/2019						107			
1/21/2019								10.2	
3/25/2019			152						
3/26/2019	222	319		73.8	33.6				
3/27/2019						103	579		76.8
7/30/2019								12.3	
10/7/2019			156						
10/8/2019					22				310
10/9/2019	90.8	255		76.3		80.2	392	10.1	
4/6/2020			123						
4/7/2020	180	180		83		333	297		446
4/8/2020					30.7			12.9	
9/28/2020			93.6	71.6	25.6				
9/29/2020							237	8.6	516
9/30/2020	339	339				65.5			
10/1/2020									
3/10/2021	572	1160		61.2		101	282		687
3/11/2021									
3/12/2021			103						
3/15/2021					30.6			10	
3/16/2021									
9/21/2021	829	645	96.5		36.6	52.4	315		433

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-12	GWC-2	GWC-11
9/22/2021								10.3	
9/23/2021				37.3					
1/31/2022			89.7						
2/1/2022									
2/2/2022		1460						9	
2/3/2022	797			49.2	32.1	46.2	333		347
8/30/2022	403	978	77.4				415		
8/31/2022					29	45.3			653
9/1/2022				44				10.3	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
8/30/2016									
8/31/2016	84								
9/1/2016		73	36	180	310	210	430	730	120
10/24/2016									
10/25/2016		26	16	79			360	420	100
10/26/2016					280	230			
10/27/2016	76								
1/3/2017									
1/4/2017			45	170			360		
1/5/2017					310			430	140
1/6/2017	66	23				220			
4/3/2017									150
4/4/2017			46	300		230		600	
4/5/2017					460		440		
4/6/2017	79	25							
7/10/2017									
7/11/2017				400				400	110
7/12/2017	75					210	490		
7/13/2017		65	33		490				
10/2/2017				390				470	56
10/3/2017			34				780		
10/4/2017	78	13			1100	290			
1/9/2018		45	29					440	84
1/10/2018				99			470		
1/11/2018	110				810	210			
7/9/2018				99.2				369	
7/10/2018			33.2				787		43
7/11/2018	87.4	37.7			902	177			
1/16/2019		24.5			422	244		291	
1/17/2019			24.1				780		45.2
1/18/2019	56.9								
1/21/2019				35.5					
3/25/2019		14.7		95.6		245			
3/26/2019			83.9		439		87.9	192	54
3/27/2019	76.2								
7/30/2019									
10/7/2019									
10/8/2019		32.8	85.6				872	428	45.8
10/9/2019	41.1			58.5	346	38.5			
4/6/2020		20.3							
4/7/2020			33.2			221	844	456	26.9
4/8/2020	34.2			428	239				
9/28/2020		20							
9/29/2020								93.5	
9/30/2020			306	956	193		736		18.5
10/1/2020	35					178			
3/10/2021	38.7					160			
3/11/2021		12			244				
3/12/2021				933					21.1
3/15/2021									
3/16/2021			343				821	92	
9/21/2021		11.1				232			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	GWA-7 (bg)	GWC-21	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-14	GWC-15
9/22/2021	42.7		14.6	905	394		1040	444	
9/23/2021									124
1/31/2022		15							
2/1/2022			374	862	416		1010		
2/2/2022	31.5					338		589	
2/3/2022									102
8/30/2022		10.6	451	606		379		410	
8/31/2022					721				88.5
9/1/2022	28.7						1140		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-9	GWC-22	GWC-2	GWC-11	GWC-12
8/30/2016	234	224	365	225					
8/31/2016					173	1570	39	119	1560
9/1/2016									
10/24/2016	216								
10/25/2016				230					
10/26/2016		297	373			1840	135	108	1520
10/27/2016					221				
1/3/2017	333	366							
1/4/2017				349		1560		182	1430
1/5/2017			543				99		
1/6/2017					259				
4/3/2017	288								
4/4/2017				356			54		
4/5/2017									1200
4/6/2017		279	434		169	368		248	
7/10/2017									1100
7/11/2017	188					383		88	
7/12/2017		308	454	357	163				
7/13/2017							50		
10/2/2017	210								
10/3/2017		288	389	192			18 (J)	248	
10/4/2017					168	1500			986
1/9/2018	118		415						
1/10/2018		493		277			<10		
1/11/2018					190	438		681	1020
7/9/2018	235								
7/10/2018		1730 (O)	453	349			49		
7/11/2018					165	876		440	888
1/16/2019	219	382	1320	341					
1/17/2019								118	765
1/18/2019					118	154			
1/21/2019							39		
3/25/2019	240								
3/26/2019		1040	1250	317					
3/27/2019					104	158		138	673
7/30/2019							70		
10/7/2019	275								
10/8/2019								613	
10/9/2019		2010	903	338	128	211	46		647
4/6/2020	214								
4/7/2020		483	775	195		819		780	464
4/8/2020					80		38		
9/28/2020	175			373					
9/29/2020							33	1100	440
9/30/2020		652	816			113			
10/1/2020					111				
3/10/2021		1040	2120	329	89	210		1240	566
3/11/2021									
3/12/2021	163								
3/15/2021							11		
3/16/2021									
9/21/2021	145	1240	985			87		842	558

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-9	GWC-22	GWC-2	GWC-11	GWC-12
9/22/2021					94		33		
9/23/2021				360					
1/31/2022	153								
2/1/2022									
2/2/2022			2440		96		43		
2/3/2022		1240		315		89		538	566
8/30/2022	154	886	1810						713
8/31/2022						163		1240	
9/1/2022				228	85		9 (J)		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWB-4R	GWA-7 (bg)	GWC-14
8/30/2016									
8/31/2016	77								
9/1/2016		539	878	1270	470	184	1080	3660	1170
10/24/2016									
10/25/2016		449	585		289	<10		3560	633
10/26/2016	<10			1320			1050		
10/27/2016									
1/3/2017									
1/4/2017			783		639	242			
1/5/2017	146	565		1770					781
1/6/2017							1060	3490	
4/3/2017		632							
4/4/2017					660	187	994		916
4/5/2017			722	1600					
4/6/2017	23 (J)							3170	
7/10/2017									
7/11/2017		569			836				675
7/12/2017	39		962				1070		
7/13/2017				1940		86		2280	
10/2/2017		559			698				689
10/3/2017			1240			66			
10/4/2017	38			2370			1100	3350	
1/9/2018		520				167		2640	653
1/10/2018	<10		935		322				
1/11/2018				2350			838		
7/9/2018					461				659
7/10/2018		524	1040			180			
7/11/2018	63			2260			799	2200	
1/16/2019	44			1540			530	2100	656
1/17/2019		518 (D)	1320			178			
1/18/2019									
1/21/2019					307				
3/25/2019					449		479	2100	
3/26/2019	72	541	1380	1220		292			496
3/27/2019									
7/30/2019									
10/7/2019									
10/8/2019	51	526	1500			278		1840	841
10/9/2019				1100	434		502		
4/6/2020								1670	
4/7/2020		428	1500			106	482		843
4/8/2020	65			881	986				
9/28/2020	60							1450	
9/29/2020									187
9/30/2020		434	1140	752	1860	634			
10/1/2020							424		
3/10/2021							434		
3/11/2021				705				1220	
3/12/2021		353			1730				
3/15/2021	<10								
3/16/2021			980			454			137
9/21/2021	83						476	1210	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2022 10:45 AM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWB-4R	GWA-7 (bg)	GWC-14
9/22/2021			1680	1530	1430	51			864
9/23/2021		556							
1/31/2022								1260	
2/1/2022			1990	1580	1580	783			
2/2/2022							654		1130
2/3/2022	72	516							
8/30/2022					1210	807	882	1340	720
8/31/2022	55	530		2050					
9/1/2022			1720						

FIGURE G.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 11:11 AM

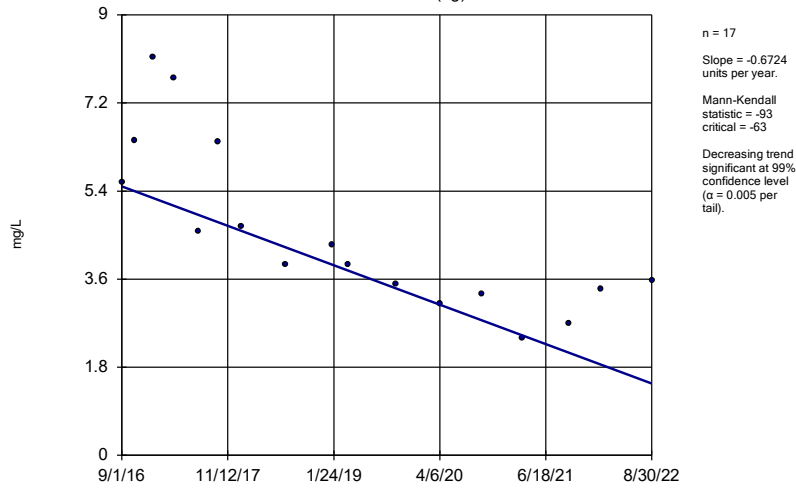
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.6724	-93	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.74	86	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	10.79	85	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	5.768	83	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	6.631	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	16.98	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-10.48	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.5	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	31.64	64	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-22.35	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01163	-79	-74	Yes	19	15.79	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.05	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-3.991	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.42	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	57.5	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	98.19	96	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	91.12	86	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-130.7	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	114.5	88	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 9/28/2022, 11:11 AM

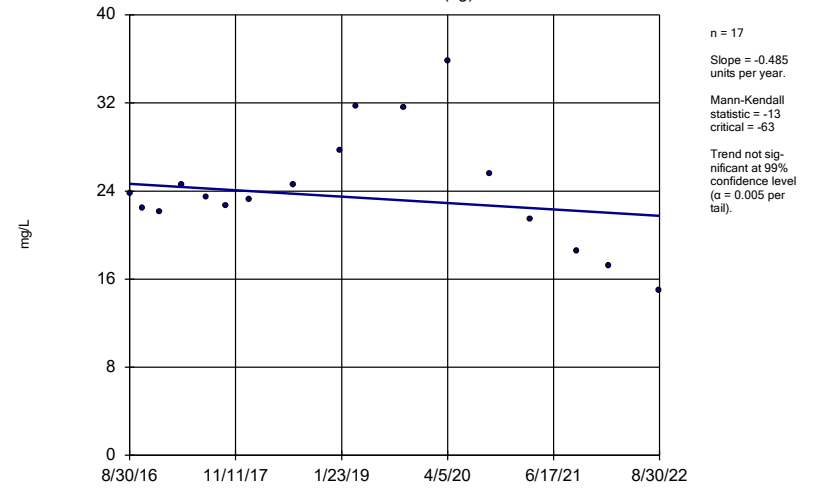
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.6724	-93	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-0.485	-13	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.74	86	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	10.79	85	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	5.768	83	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	6.631	84	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	16.98	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-10.48	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.68	8	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.953	15	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.5	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-3.105	-18	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	31.64	64	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	16.62	57	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-22.35	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.1945	-17	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-61.65	-37	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.004548	-23	-74	No	19	31.58	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01163	-79	-74	Yes	19	15.79	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1299	-65	-74	No	19	5.263	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.05	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.02069	35	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	-0.007247	-14	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04875	39	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-3.991	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.42	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	4.182	18	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	57.5	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	98.19	96	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	91.12	86	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-130.7	-92	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-30.55	-34	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	114.5	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	-8.669	-7	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	112.8	42	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	25.95	49	63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
GWA-7 (bg)



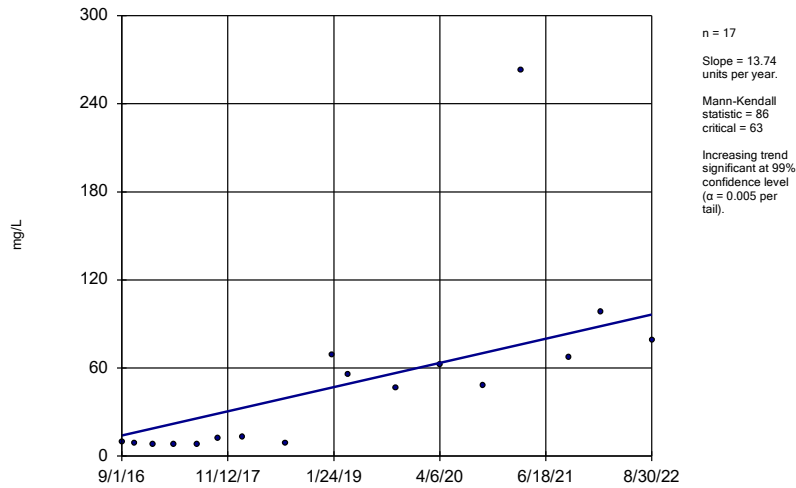
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-8 (bg)



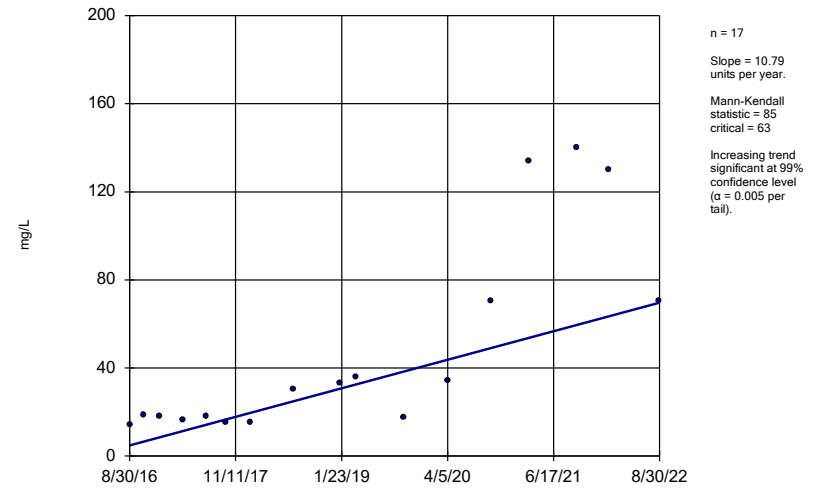
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWB-4R



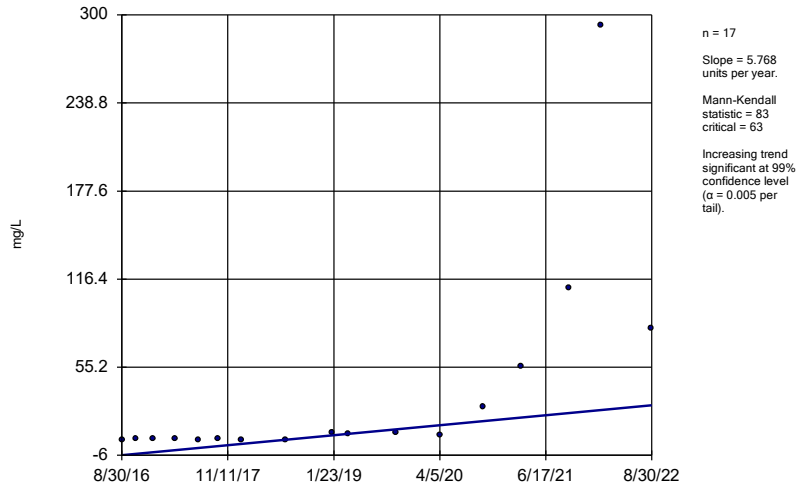
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWB-5R



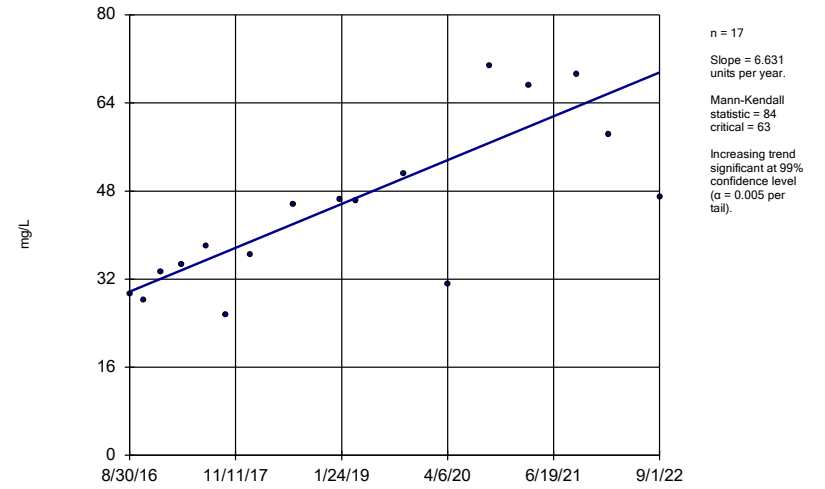
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWB-6R



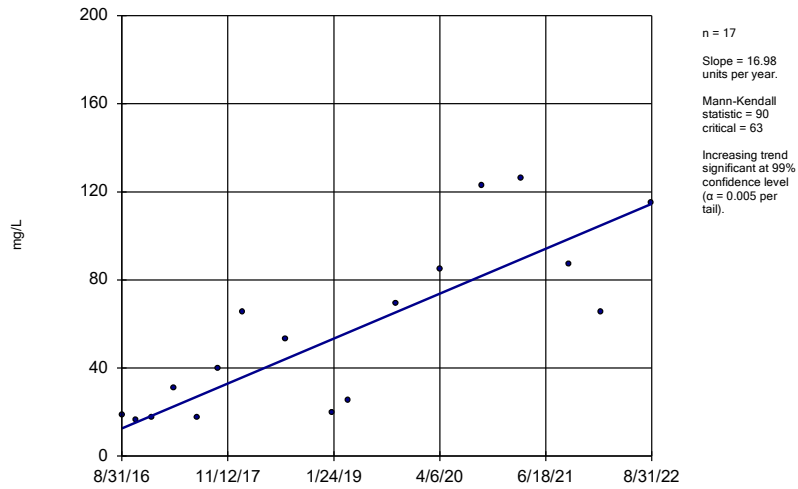
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-1



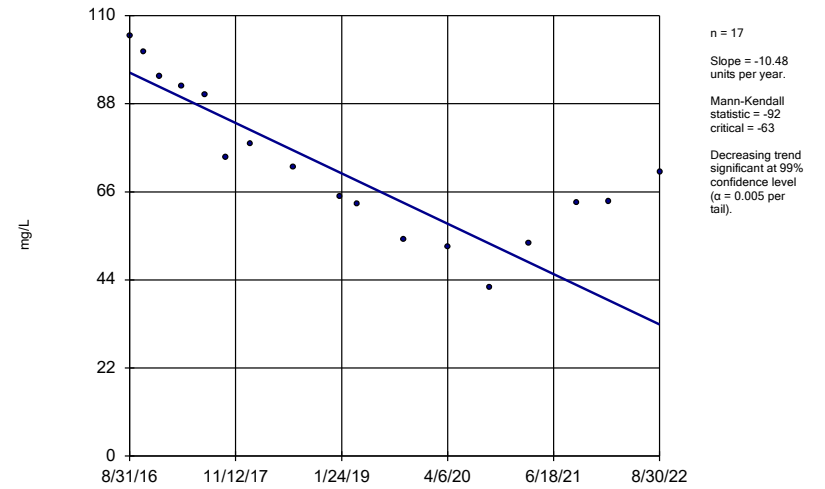
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-11



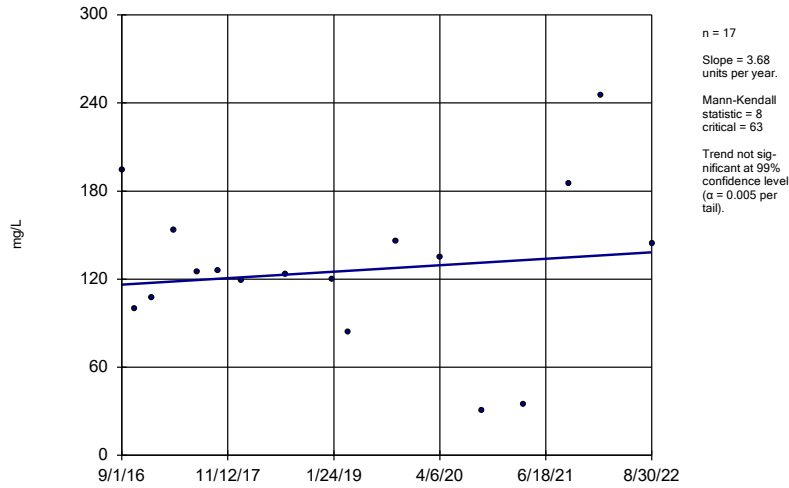
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-12



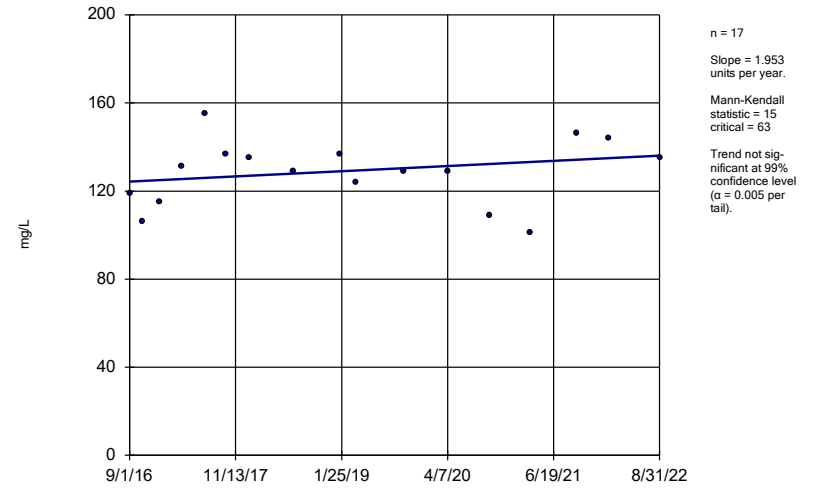
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-14



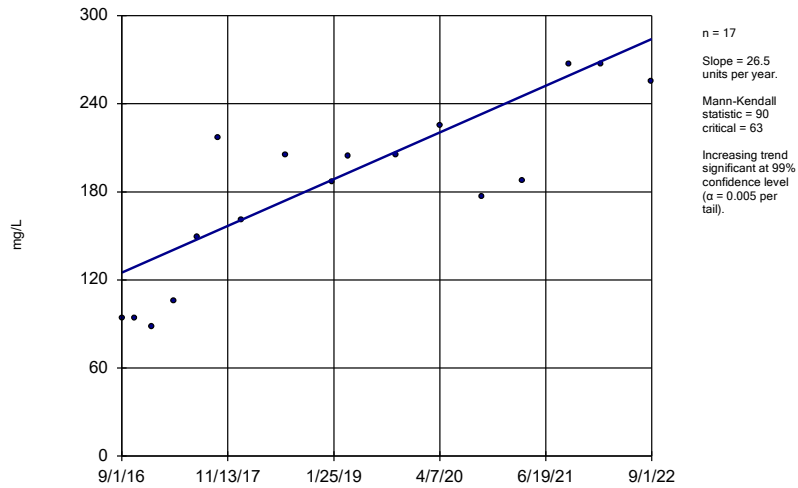
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-15



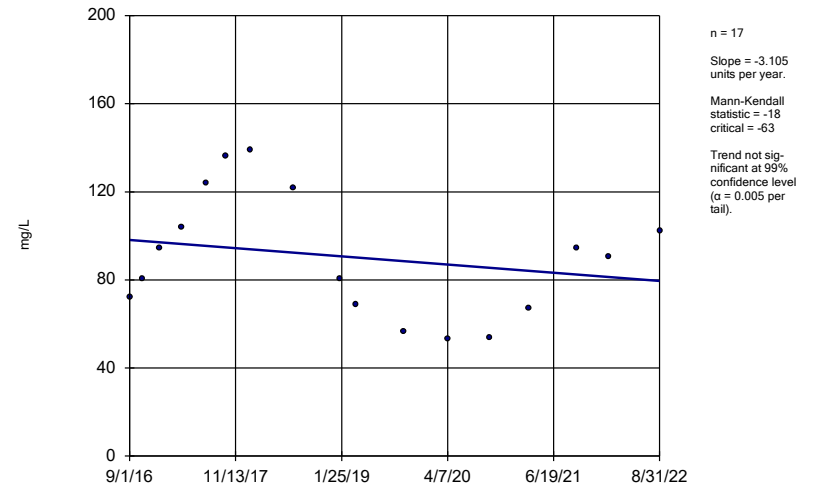
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-16



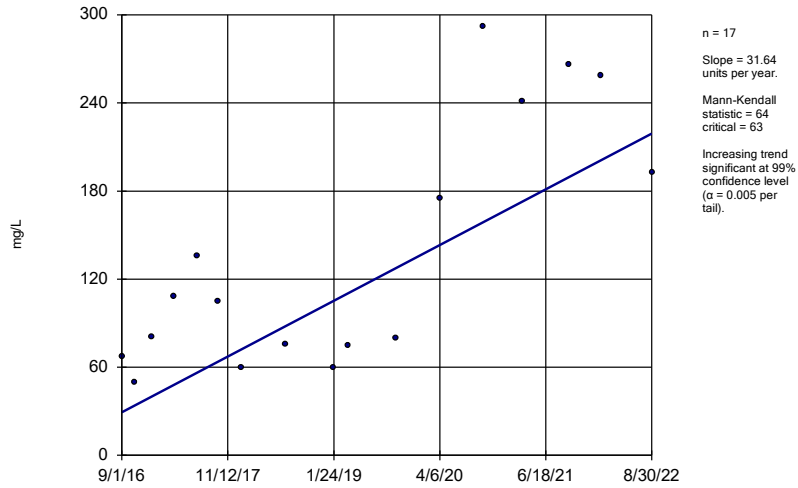
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-17



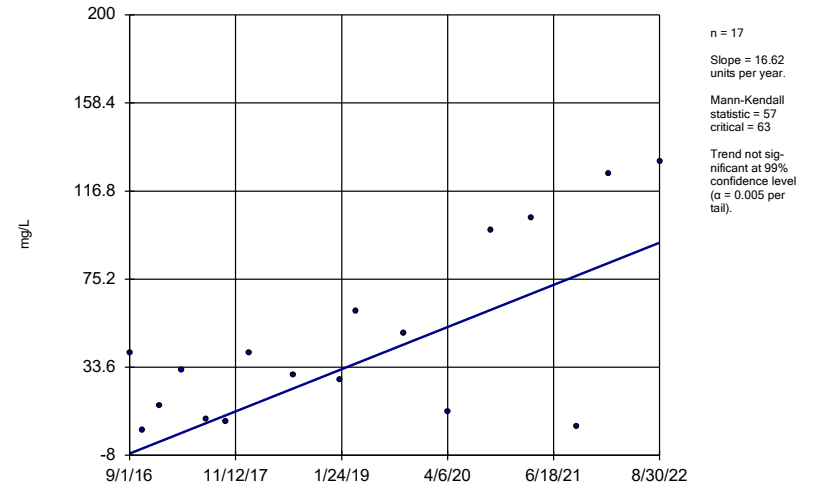
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-20



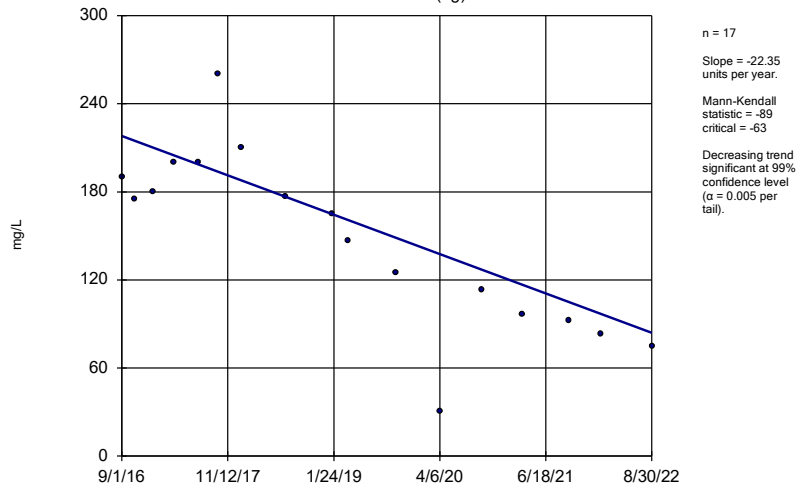
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-21



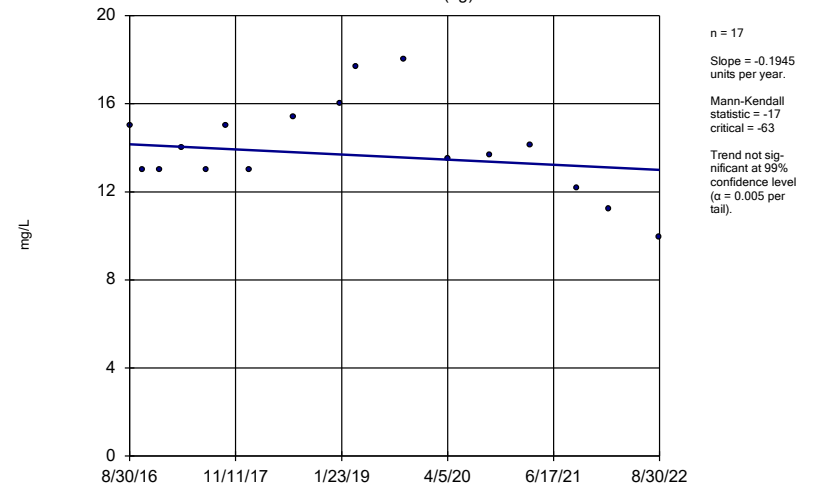
Constituent: Calcium Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-7 (bg)



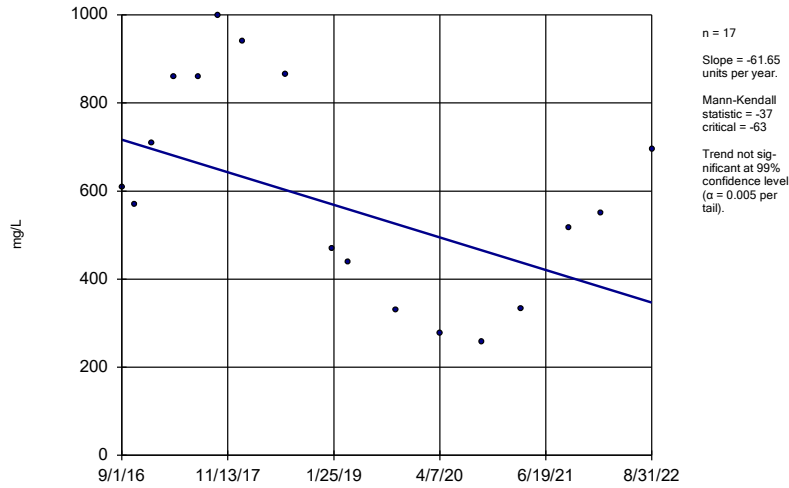
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-8 (bg)



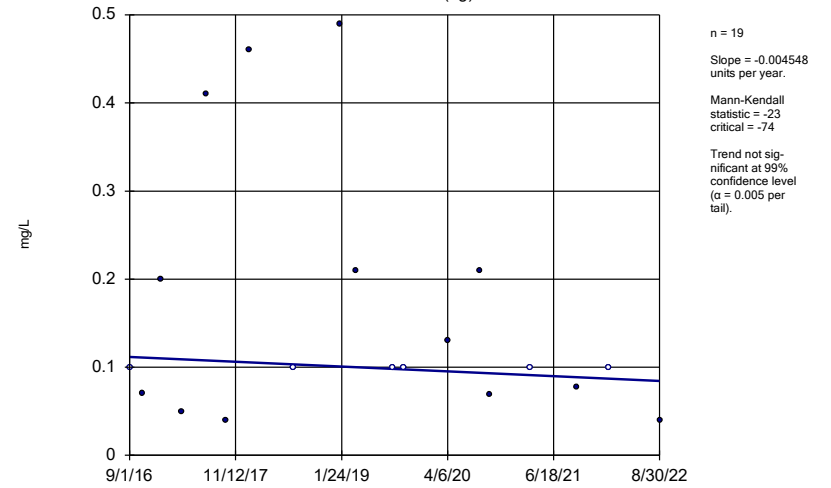
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-17



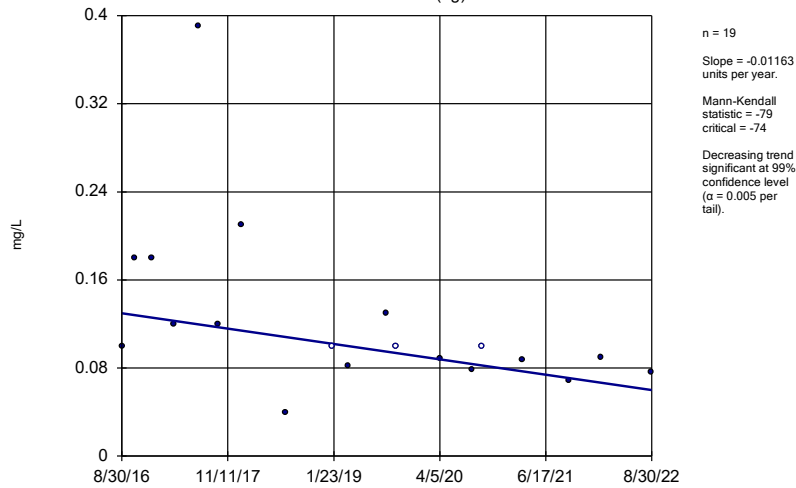
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-7 (bg)



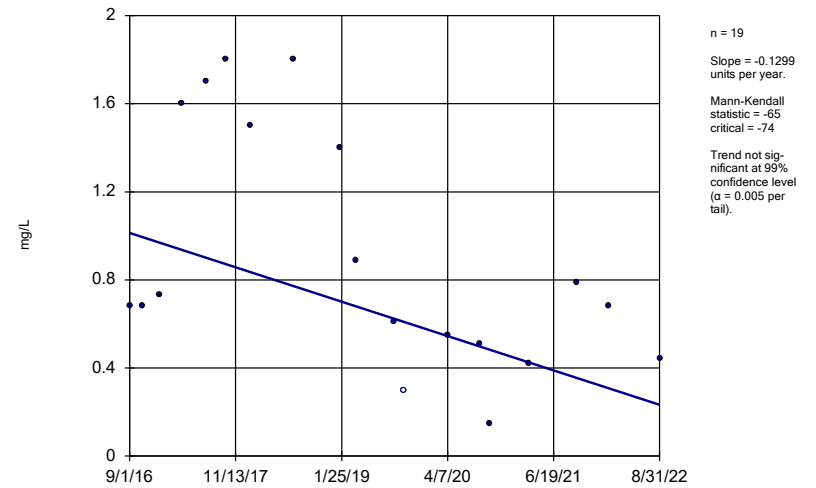
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-8 (bg)



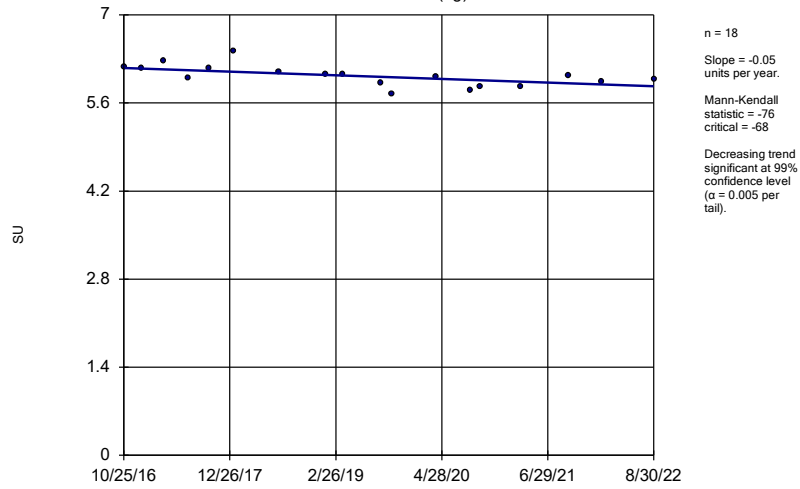
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-17



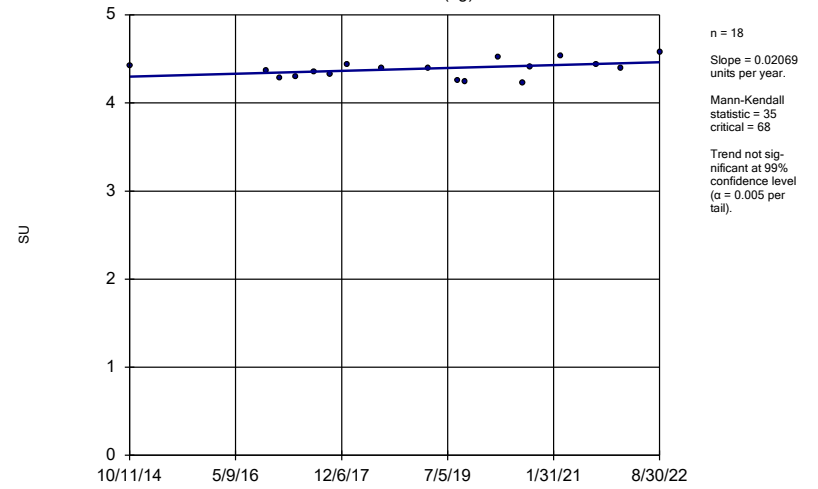
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-7 (bg)



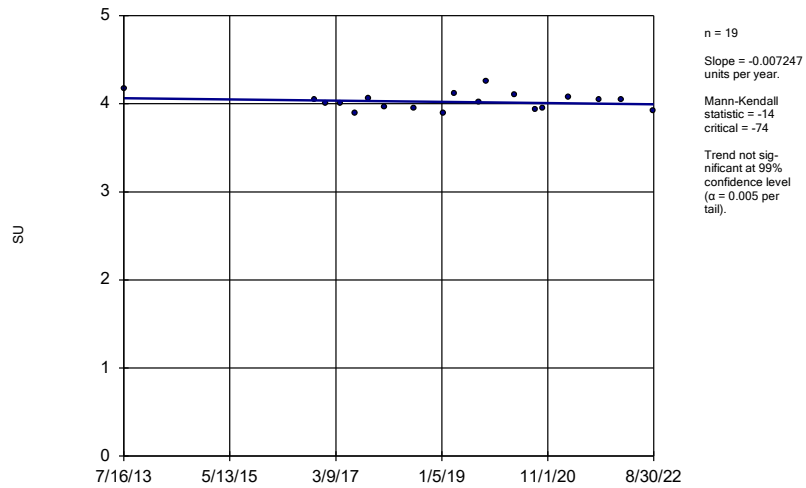
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWA-8 (bg)



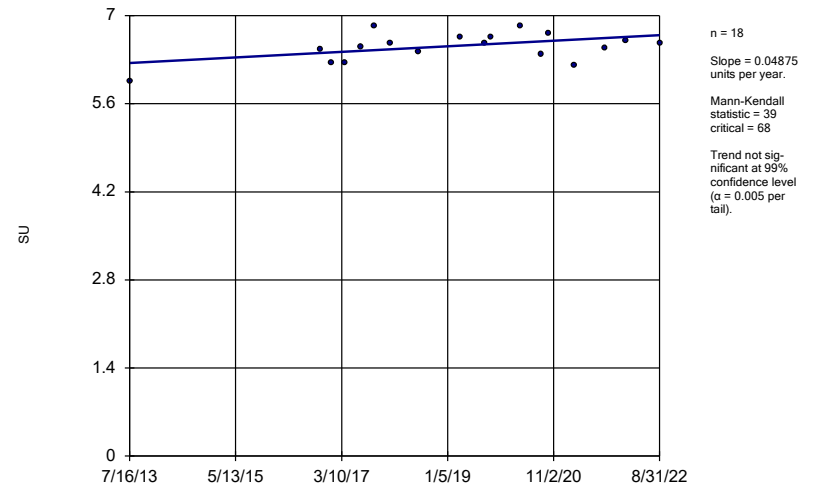
Constituent: pH Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-12



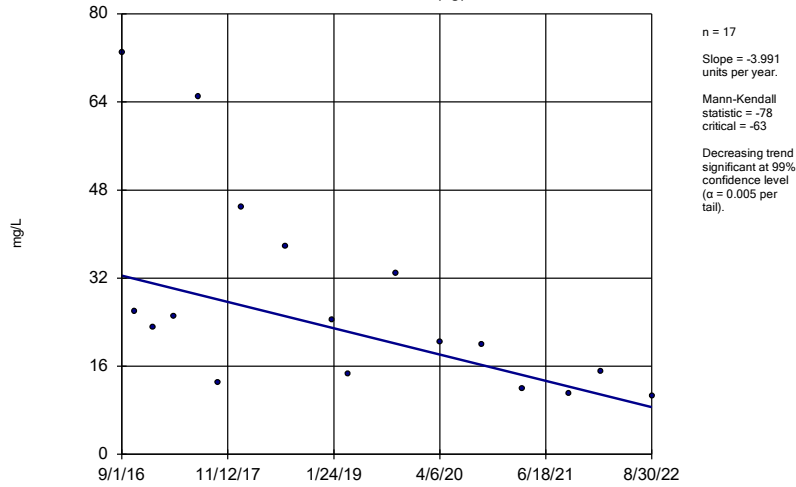
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-15



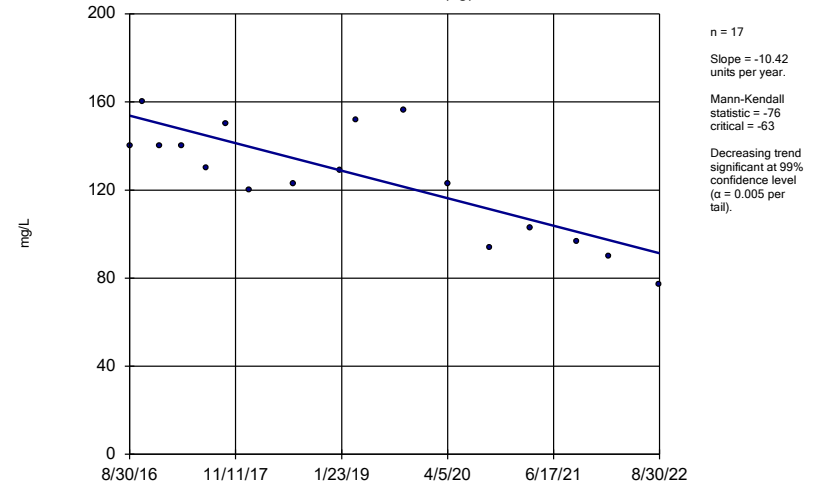
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-7 (bg)



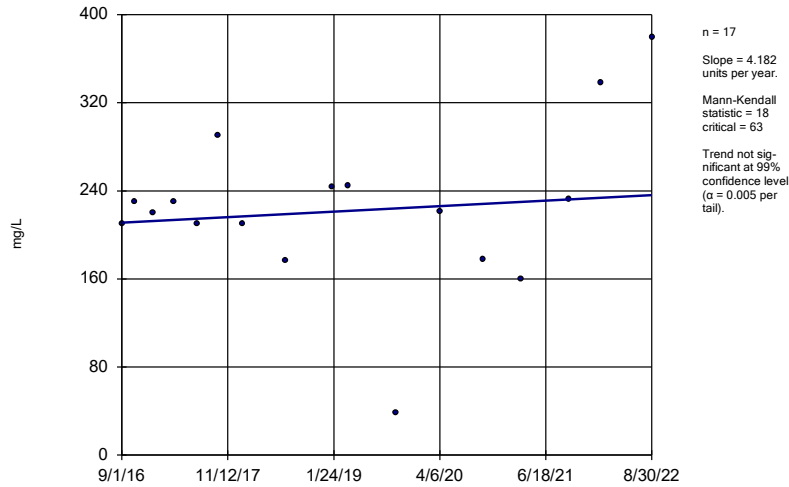
Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-8 (bg)



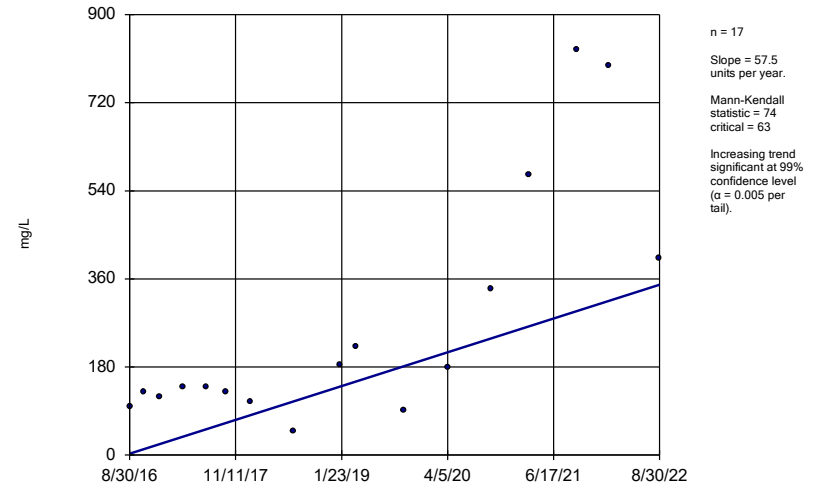
Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWB-4R



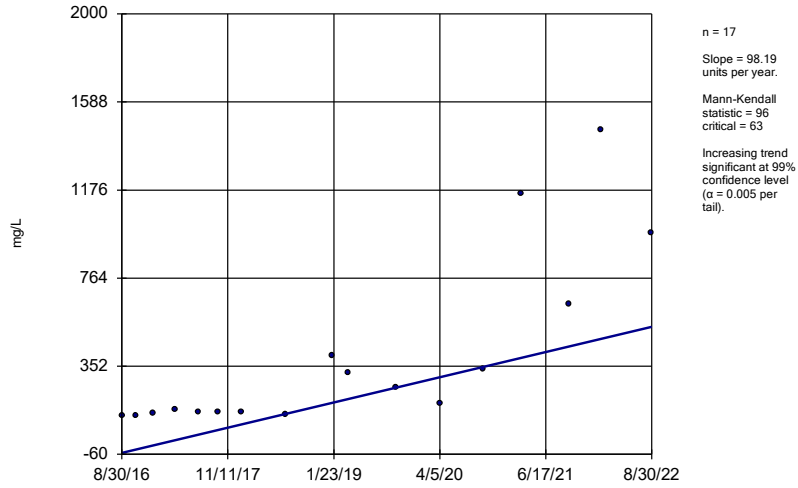
Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWB-5R



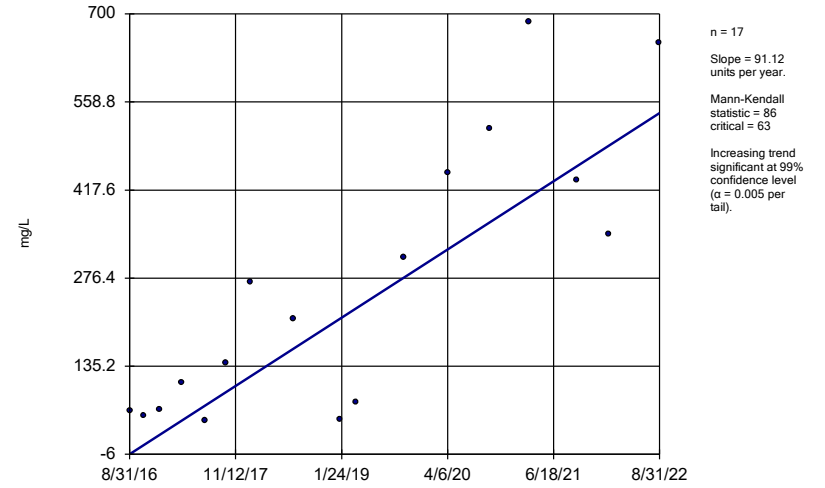
Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWB-6R



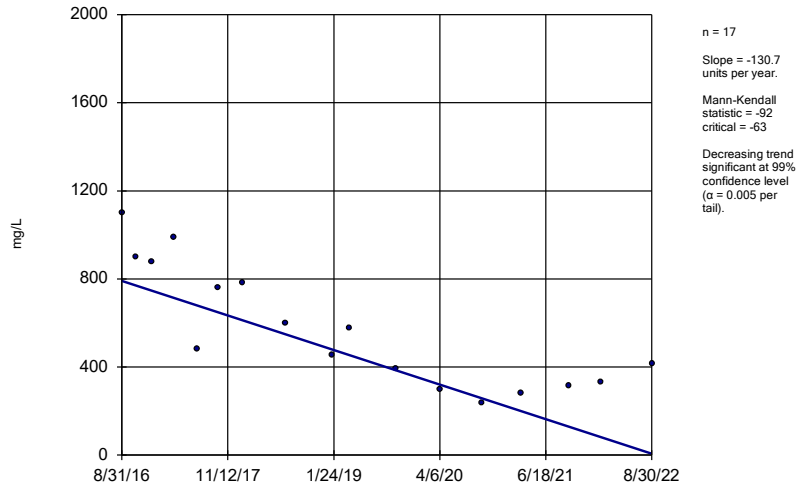
Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-11



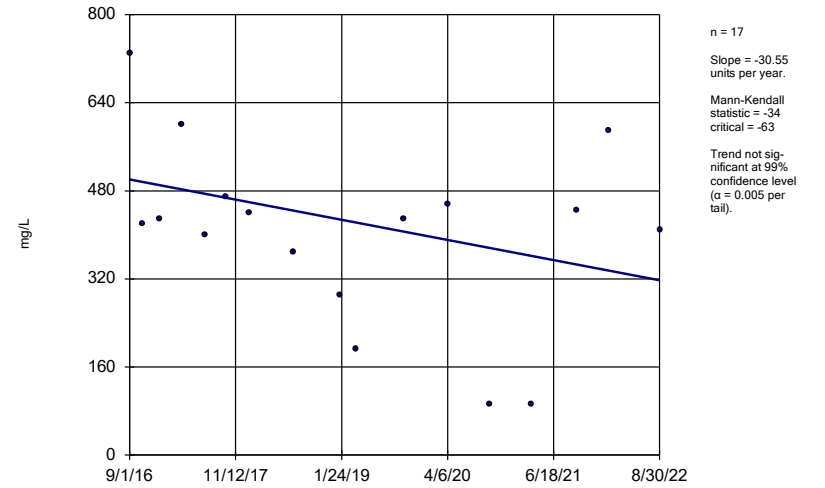
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-12



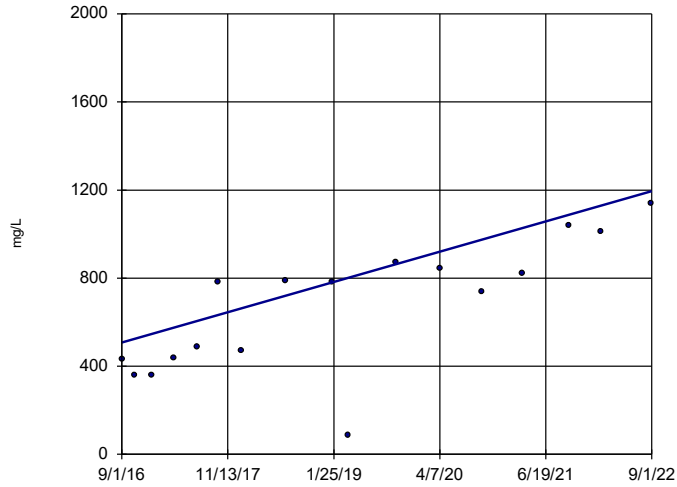
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator
GWC-14



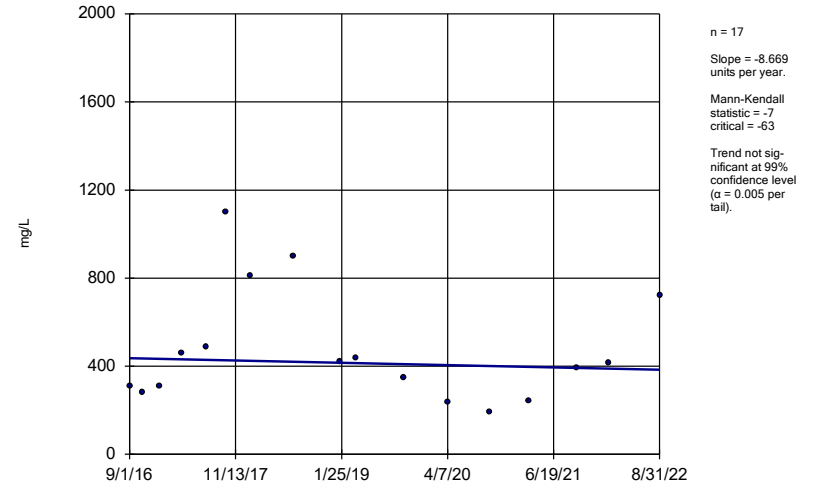
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-16



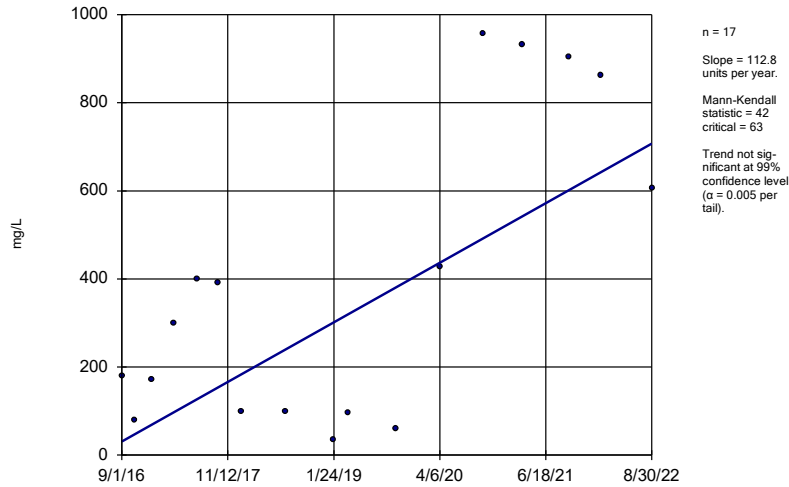
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-17



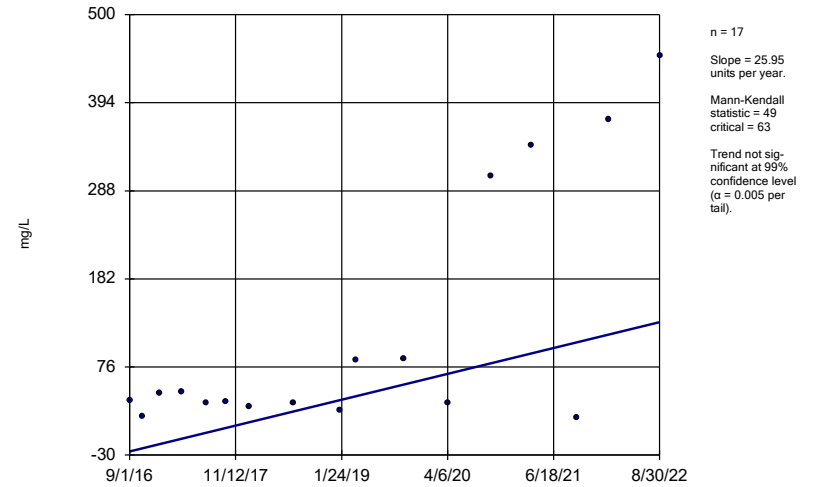
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-20



Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-21



Constituent: Sulfate Analysis Run 9/28/2022 11:08 AM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

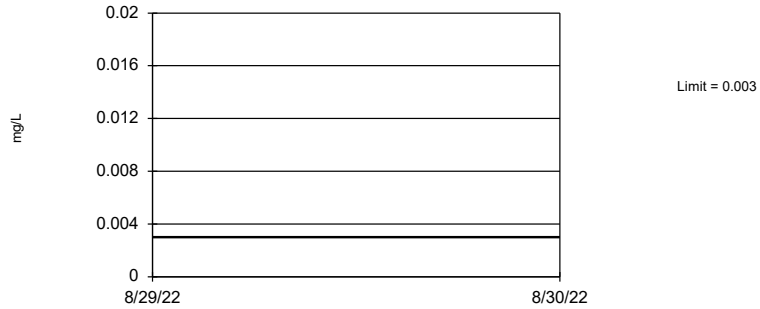
FIGURE H.

Upper Tolerance Limit Summary Table

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 9:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	127	n/a	n/a	95.28	n/a	n/a	0.001482	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0287	n/a	n/a	n/a	n/a	127	n/a	n/a	77.17	n/a	n/a	0.001482	NP Inter(NDs)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	125	n/a	n/a	0	n/a	n/a	0.001642	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0017	n/a	n/a	n/a	n/a	47	n/a	n/a	51.06	n/a	n/a	0.08974	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	45	n/a	n/a	95.56	n/a	n/a	0.09944	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	n/a	n/a	n/a	126	n/a	n/a	61.9	n/a	n/a	0.00156	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0102	n/a	n/a	n/a	n/a	45	n/a	n/a	48.89	n/a	n/a	0.09944	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	12.22	n/a	n/a	n/a	n/a	31	1.952	0.6987	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.4072	n/a	n/a	n/a	n/a	38	-2.348	0.6768	23.68	Kaplan-Meier	ln(x)	0.05	Inter
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	123	n/a	n/a	75.61	n/a	n/a	0.00182	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	34	n/a	n/a	73.53	n/a	n/a	0.1748	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	28	n/a	n/a	82.14	n/a	n/a	0.2378	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0098	n/a	n/a	n/a	n/a	34	n/a	n/a	88.24	n/a	n/a	0.1748	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	n/a	n/a	n/a	127	n/a	n/a	83.46	n/a	n/a	0.001482	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.425	n/a	n/a	n/a	n/a	121	n/a	n/a	61.98	n/a	n/a	0.002016	NP Inter(NDs)
Zinc (mg/L)	n/a	0.16	n/a	n/a	n/a	n/a	119	n/a	n/a	28.57	n/a	n/a	0.002234	NP Inter(normality)

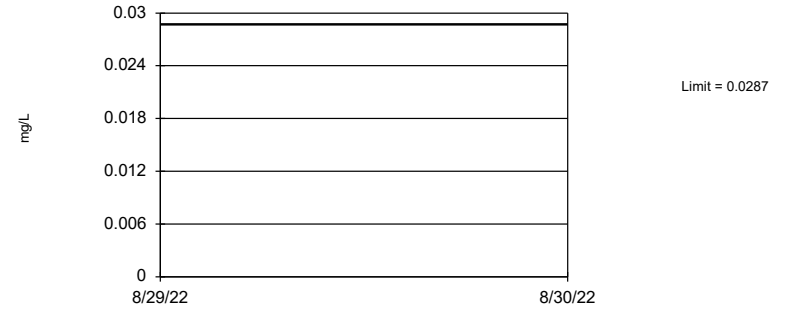
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 95.28% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Antimony Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

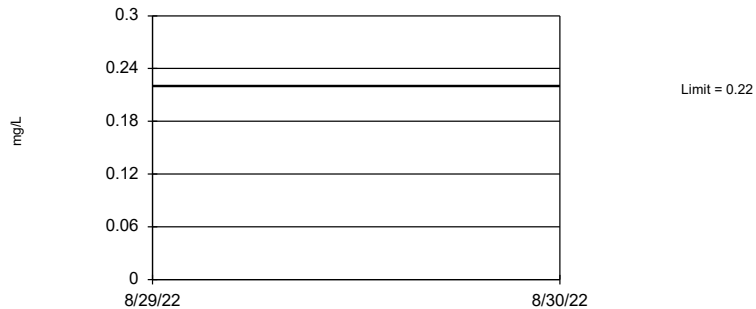
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 77.17% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Arsenic Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

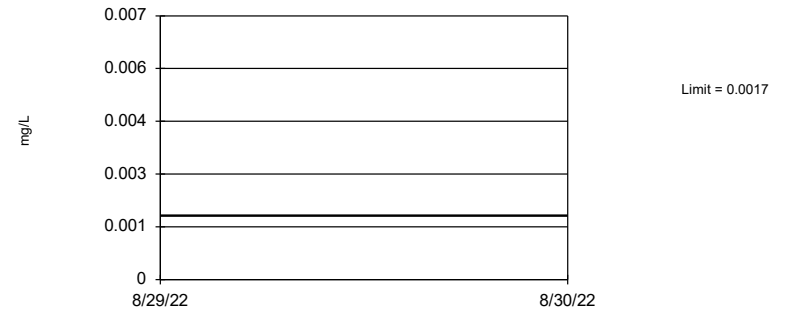
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 125 background values. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001642.

Constituent: Barium Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

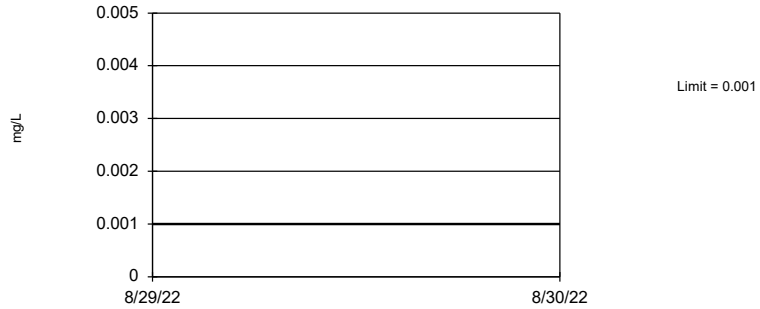
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 47 background values. 51.06% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08974.

Constituent: Beryllium Analysis Run 11/6/2022 9:52 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

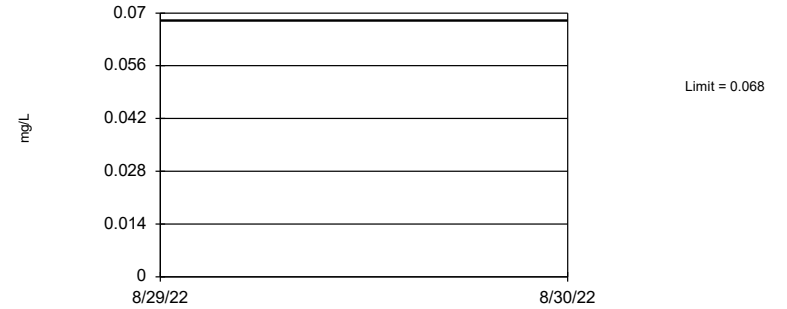
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 45 background values. 95.56% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09944.

Constituent: Cadmium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 126 background values. 61.9% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00156.

Constituent: Chromium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. 48.89% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09944.

Constituent: Cobalt Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on square root transformation): Mean=1.952, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9115, critical = 0.902. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

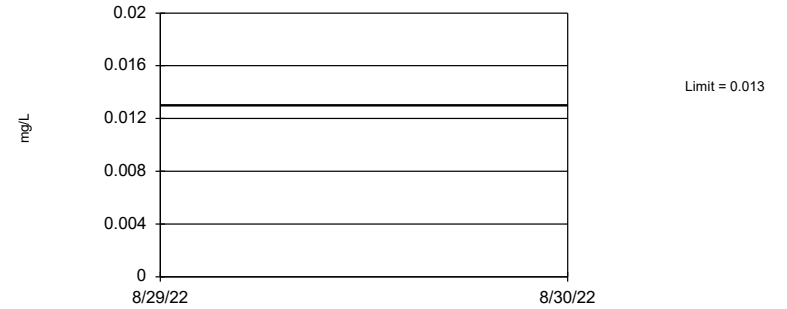
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.348, Std. Dev.=0.6768, n=38, 23.68% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9171, critical = 0.916. Report alpha = 0.05.

Constituent: Fluoride Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 123 background values. 75.61% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00182.

Constituent: Lead Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

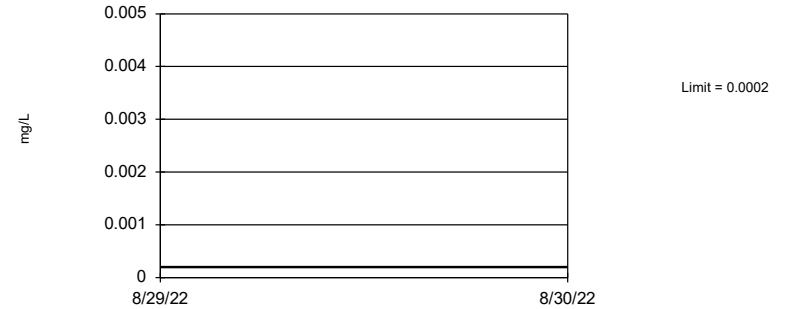
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 73.53% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Lithium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

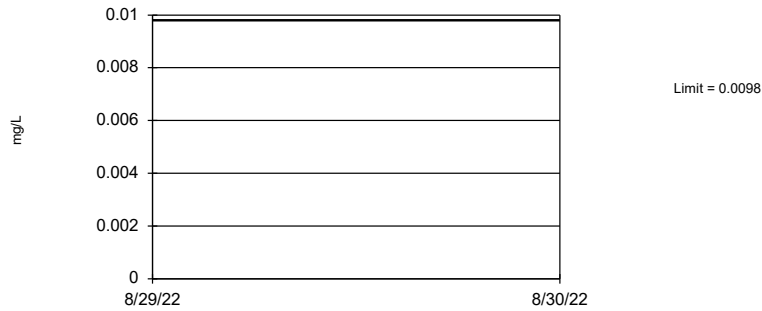
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 82.14% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Mercury Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

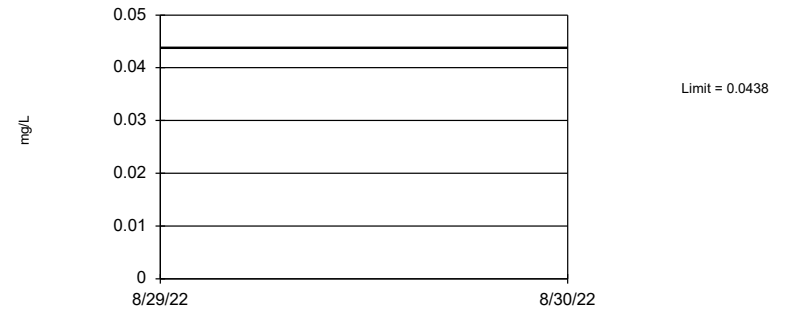
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 88.24% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Molybdenum Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 83.46% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Selenium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

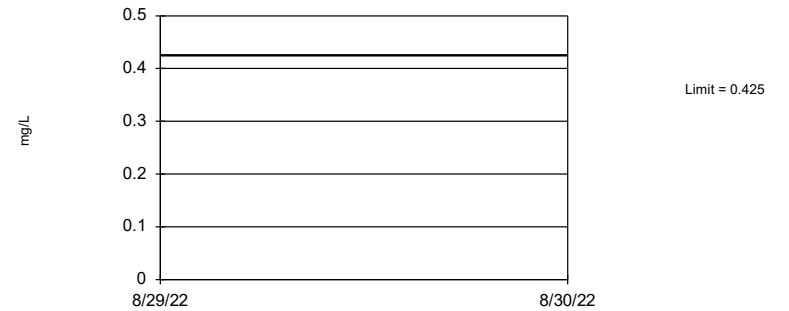
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 66 background values. 93.94% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Thallium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 121 background values. 61.98% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002016.

Constituent: Vanadium Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 28.57% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Zinc Analysis Run 11/6/2022 9:53 AM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE I.

GRUMMAN ROAD LANDFILL GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.029	0.029
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		12.22	12.22
Fluoride, Total (mg/L)	4		0.41	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.43	0.43
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.176	0.08366	0.029	Yes	21	0.1298	0.08372	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08264	0.06341	0.029	Yes	22	0.07303	0.01792	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3604	0.2763	0.029	Yes	21	0.3184	0.07621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2078	0.1293	0.1	Yes	17	0.1686	0.06266	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3536	0.137	0.1	Yes	17	0.2629	0.1946	0	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	21	0.002673	0.0008364	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	21	0.002756	0.0007715	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	21	0.002583	0.0009051	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0006	0.006	No	21	0.00186	0.00123	52.38	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	21	0.002886	0.0005237	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	21	0.002943	0.0002619	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.0014	0.006	No	21	0.0028	0.000653	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	21	0.002852	0.0004686	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	21	0.002836	0.0005552	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	21	0.002873	0.0005826	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	21	0.00253	0.0009363	76.19	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	21	0.002806	0.0006442	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003338	0.002047	0.029	No	21	0.002693	0.00117	9.524	None	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.001983	0.001062	0.029	No	21	0.002535	0.001726	23.81	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.004092	0.001557	0.029	No	21	0.003714	0.002361	23.81	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GWC-1	0.00526	0.002364	0.029	No	20	0.004764	0.00551	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	21	0.004233	0.001628	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	21	0.004461	0.001397	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002219	0.001636	0.029	No	22	0.002615	0.001262	18.18	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.176	0.08366	0.029	Yes	21	0.1298	0.08372	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08264	0.06341	0.029	Yes	22	0.07303	0.01792	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	21	0.002853	0.00192	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	21	0.004378	0.001565	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3604	0.2763	0.029	Yes	21	0.3184	0.07621	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0059	0.0029	0.029	No	21	0.006271	0.006103	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0011	0.029	No	21	0.00336	0.001997	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	21	0.004802	0.0009078	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	5	0.004184	0.001825	80	None	No	0.031	NP (NDs)
Barium (mg/L)	GWB-4R	0.098	0.076	2	No	21	0.09233	0.02394	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1426	0.0869	2	No	21	0.1184	0.05621	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.014	2	No	21	0.0674	0.04169	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05704	0.05117	2	No	21	0.0541	0.005314	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1216	0.07385	2	No	21	0.09771	0.04325	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.023	0.017	2	No	21	0.01983	0.004585	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02905	0.02171	2	No	21	0.02538	0.006658	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.025	2	No	22	0.04429	0.02732	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05018	0.04022	2	No	21	0.0452	0.009027	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1648	0.07656	2	No	20	0.1207	0.07768	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.1004	0.04728	2	No	21	0.0791	0.05487	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.05	2	No	20	0.05294	0.007254	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.2024	0.1006	2	No	21	0.1746	0.1195	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1145	0.05692	2	No	21	0.09323	0.06186	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.09072	0.0587	2	No	21	0.07471	0.02902	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2461	0.1791	2	No	21	0.2126	0.06074	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.079	0.076	2	No	4	0.07688	0.001436	0	None	No	0.0625	NP (normality)
Barium (mg/L)	MW-24D	0.05583	0.01802	2	No	4	0.03693	0.008328	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03304	0.01676	2	No	4	0.0249	0.003583	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	17	0.0003765	0.0001855	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0001657	0.00008436	0.004	No	17	0.0002436	0.000165	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	17	0.0004468	0.0001501	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	17	0.0004734	0.0001099	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007522	0.0005148	0.004	No	17	0.0006514	0.0002157	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	17	0.000474	0.0001072	94.12	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	17	0.0004266	0.0001636	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	17	0.000255	0.0002116	41.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.00262	0.001628	0.004	No	17	0.002181	0.0008605	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.000088	0.004	No	18	0.0003709	0.0001944	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.00009	0.004	No	17	0.0003433	0.0001961	58.82	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	17	0.0002529	0.00008122	5.882	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	4	0.000396	0.000208	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.0002	0.005	No	17	0.0007988	0.0003748	76.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	17	0.0008924	0.0003039	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0006077	0.000276	0.005	No	17	0.0004418	0.0002647	5.882	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.00017	0.005	No	17	0.0006582	0.0004219	58.82	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.0002	0.005	No	17	0.0008535	0.0003264	82.35	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	17	0.0005324	0.0004155	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	4	0.0008175	0.000365	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	GWB-4R	0.0101	0.0022	0.1	No	21	0.006514	0.004437	4.762	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-5R	0.003715	0.001047	0.1	No	21	0.008143	0.01523	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006407	0.002325	0.1	No	21	0.005174	0.005004	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0024	0.0017	0.1	No	21	0.002929	0.002547	9.524	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00091	0.1	No	21	0.004813	0.004589	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.0028	0.00091	0.1	No	21	0.003316	0.003853	23.81	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.00077	0.1	No	21	0.006108	0.004612	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0008	0.1	No	22	0.00503	0.004648	45.45	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	21	0.004343	0.004122	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	22	0.005121	0.004563	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	21	0.004262	0.004269	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	21	0.006482	0.004596	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.0009	0.1	No	21	0.004576	0.004398	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.00067	0.1	No	21	0.005583	0.004749	47.62	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	21	0.00597	0.004768	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	21	0.004604	0.00435	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	4	0.007672	0.004655	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	4	0.0079	0.0042	75	None	No	0.0625	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.001418	0.0008127	0.0102	No	17	0.001188	0.0006122	11.76	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GWB-5R	0.00401	0.00056	0.0102	No	17	0.003782	0.005909	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0049	0.00038	0.0102	No	17	0.007993	0.01955	76.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.001	0.000646	0.0102	No	17	0.0008656	0.0002376	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001239	0.000785	0.0102	No	17	0.001012	0.0003624	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.0102	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.005438	0.002894	0.0102	No	17	0.004305	0.002077	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.0102	No	18	0.0008544	0.0002951	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.0102	No	17	0.0009082	0.0001762	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00096	0.0102	No	17	0.00132	0.0004016	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5	2.44	12.22	No	17	3.468	1.248	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.835	2.314	12.22	No	17	3.141	1.362	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.788	2.83	12.22	No	17	3.809	1.562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.147	1.447	12.22	No	17	1.797	0.5585	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.438	3.399	12.22	No	17	4.918	2.425	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.849	1.731	12.22	No	17	2.29	0.8921	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.468	0.8765	12.22	No	17	1.172	0.4722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.467	0.7077	12.22	No	17	1.088	0.6063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.879	1.065	12.22	No	17	1.472	0.6494	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.705	1.753	12.22	No	17	2.279	0.847	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.853	2.7	12.22	No	17	3.276	0.92	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.09	0.725	12.22	No	17	0.8945	0.3858	0	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.759	2.321	12.22	No	17	3.54	1.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.443	1.317	12.22	No	17	1.88	0.8982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.161	3.134	12.22	No	17	4.825	2.333	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.524	2.026	12.22	No	17	2.947	1.554	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.044	0.9313	12.22	No	4	1.488	0.245	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	4.691	-1.605	12.22	No	4	1.543	1.386	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.504	-0.2912	12.22	No	4	0.6065	0.3954	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	19	0.1671	0.26	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.11	0.05	4	No	19	0.0872	0.03977	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.13	0.09	4	No	19	0.1173	0.05903	52.63	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.051	4	No	19	0.1048	0.03827	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.7212	0.2723	4	No	19	0.4968	0.3833	5.263	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	19	0.1181	0.1057	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.25	0.1	4	No	19	0.1674	0.124	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	19	0.1295	0.09513	73.68	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.2	0.1	4	No	19	0.1767	0.2046	57.89	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.162	0.5173	4	No	19	0.8964	0.5551	5.263	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.08	4	No	19	0.1233	0.1224	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	19	0.09174	0.02744	78.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	19	0.09847	0.006653	94.74	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	19	0.09316	0.02358	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2313	0.09769	4	No	19	0.2058	0.2196	10.53	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.1	0.0791	4	No	5	0.09582	0.009347	80	None	No	0.031	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1881	0.04793	4	No	5	0.118	0.04182	0	None	No	0.01	Param.
Lead (mg/L)	GWB-4R	0.004315	0.001028	0.015	No	20	0.003249	0.002759	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	21	0.001221	0.0008915	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	21	0.001118	0.0008882	47.62	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	21	0.001636	0.0007683	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.00042	0.00021	0.015	No	21	0.0006767	0.0007619	23.81	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	21	0.0009953	0.001073	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00013	0.015	No	21	0.001028	0.0008476	38.1	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	22	0.001672	0.0007159	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.0001	0.015	No	21	0.00112	0.0009478	52.38	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	22	0.0009847	0.0009495	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00014	0.015	No	21	0.00132	0.0009033	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0002	0.015	No	21	0.001471	0.000859	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	21	0.001553	0.0008197	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.0001	0.015	No	21	0.001286	0.0009331	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007979	0.0002964	0.015	No	21	0.0009176	0.0008104	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.0001	0.015	No	21	0.00122	0.0009321	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	4	0.001514	0.0009715	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	4	0.001524	0.000953	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	4	0.001524	0.0009525	75	None	No	0.0625	NP (NDs)
Lithium (mg/L)	GWB-4R	0.015	0.0042	0.04	No	17	0.009871	0.005	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	17	0.01921	0.01331	58.82	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	17	0.01293	0.01472	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	17	0.02657	0.009691	88.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006758	0.005122	0.04	No	17	0.00594	0.001306	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0022	0.0017	0.04	No	16	0.003662	0.007026	6.25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	14	0.0001821	0.00004666	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	15	0.0001858	0.00003755	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	14	0.0001816	0.00004798	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	14	0.0001814	0.00004865	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

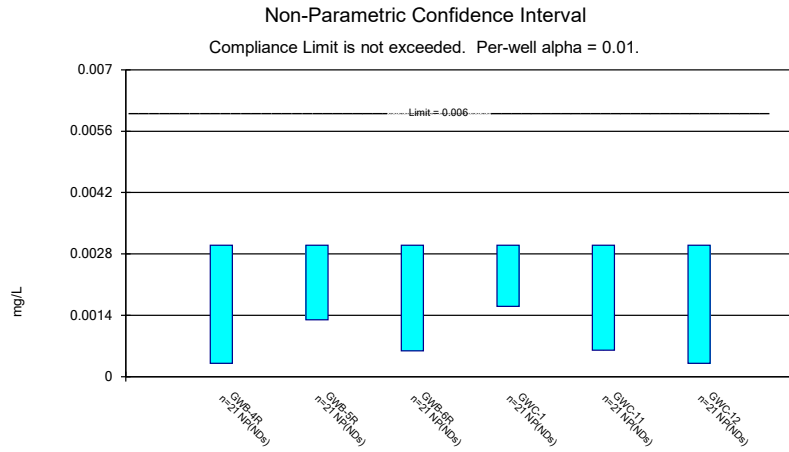
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	14	0.0001879	0.00003142	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	14	0.0001936	0.00002405	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	14	0.0001929	0.00002673	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	14	0.0001829	0.00004514	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.13	0.024	0.1	No	17	0.07922	0.05491	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.0012	0.001	0.1	No	17	0.001012	0.00004851	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.0013	0.001	0.1	No	17	0.001081	0.0004098	64.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.146	0.06224	0.1	No	17	0.1041	0.06687	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.0018	0.00077	0.1	No	17	0.001005	0.0002412	82.35	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	17	0.0009532	0.0001928	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	17	0.001271	0.001116	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01488	0.004383	0.1	No	17	0.01072	0.009545	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1091	0.08978	0.1	No	17	0.09946	0.01545	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2078	0.1293	0.1	Yes	17	0.1686	0.06266	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.0038	0.001	0.1	No	17	0.002214	0.001477	47.06	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3536	0.137	0.1	Yes	17	0.2629	0.1946	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05718	0.02102	0.1	No	17	0.0391	0.02886	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.003964	0.000932	0.1	No	5	0.002448	0.0009047	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.001454	0.0006211	0.1	No	5	0.001093	0.0002428	40	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-4R	0.003863	0.0026	0.05	No	21	0.004131	0.001264	42.86	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	21	0.004924	0.0009823	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.005	0.0023	0.05	No	21	0.00617	0.01014	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	21	0.003491	0.004609	9.524	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.007591	0.003421	0.05	No	21	0.007207	0.005946	19.05	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	21	0.004495	0.001084	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004476	0.003098	0.05	No	22	0.003787	0.001284	4.545	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.004932	0.002125	0.05	No	21	0.005101	0.002916	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.005345	0.003529	0.05	No	22	0.004437	0.001692	4.545	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	21	0.003619	0.001743	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	21	0.004786	0.0007171	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	21	0.003868	0.001656	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01972	0.0105	0.05	No	21	0.01511	0.008357	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	21	0.004376	0.00134	80.95	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	17	0.001773	0.000641	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	17	0.001786	0.0006049	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	17	0.001656	0.0007652	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	17	0.001125	0.000958	52.94	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.00014	0.002	No	17	0.001146	0.0009346	52.94	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	17	0.001772	0.0006426	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	17	0.001771	0.0006459	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.000076	0.002	No	17	0.001323	0.0009444	64.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	18	0.001895	0.0004455	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	17	0.001885	0.0004729	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	17	0.00144	0.0008944	70.59	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0388	0.0031	0.43	No	16	0.01918	0.01676	6.25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWB-5R	0.01088	0.004351	0.43	No	16	0.008994	0.00808	6.25	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02669	0.008142	0.43	No	16	0.02263	0.02488	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.008409	0.00372	0.43	No	16	0.006849	0.005337	12.5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00481	0.0021	0.43	No	16	0.005832	0.007061	18.75	None	No	0.01	NP (normality)

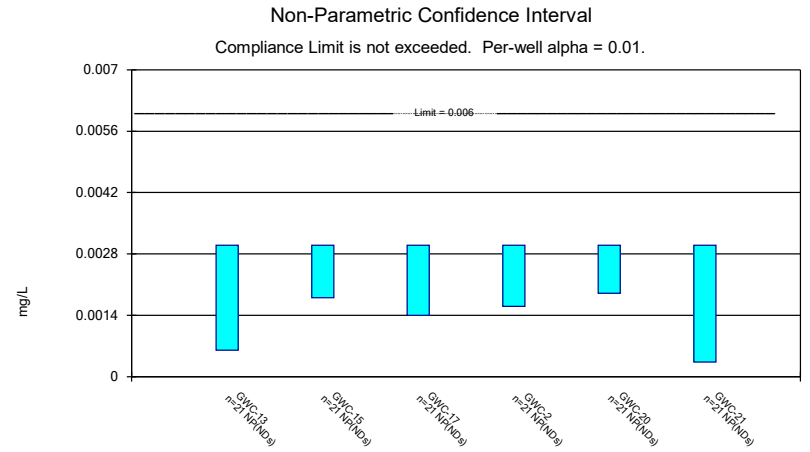
Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/6/2022, 10:03 AM

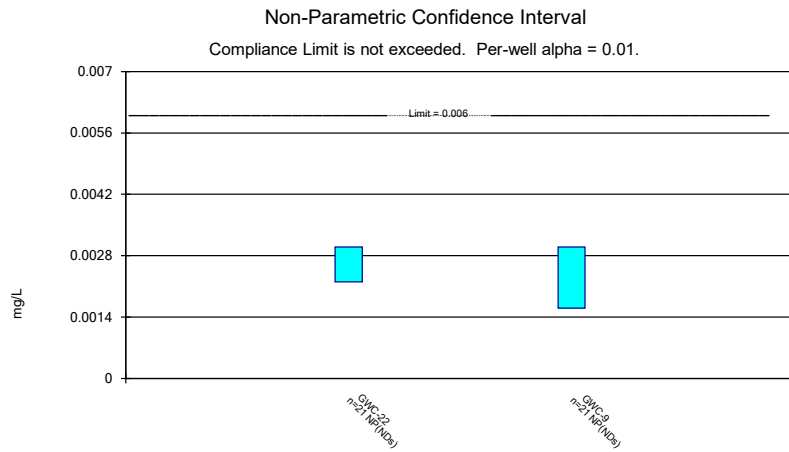
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWC-12	0.008356	0.003653	0.43	No	16	0.006837	0.005433	12.5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.0019	0.43	No	16	0.01482	0.008138	68.75	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01685	0.008245	0.43	No	19	0.01406	0.007586	15.79	Kaplan-Meier	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.02	0.0022	0.43	No	18	0.00837	0.008492	33.33	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	19	0.006719	0.007108	21.05	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.02	0.0024	0.43	No	16	0.0105	0.008699	43.75	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.0045	0.43	No	16	0.01793	0.005666	87.5	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.02	0.0025	0.43	No	18	0.007865	0.007799	27.78	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.02	0.0029	0.43	No	16	0.007603	0.007491	25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-22	0.02	0.0016	0.43	No	16	0.01237	0.008989	56.25	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.00514	0.43	No	16	0.01675	0.00704	81.25	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	4	0.01603	0.00793	75	None	No	0.0625	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	4	0.0156	0.0088	75	None	No	0.0625	NP (NDs)
Zinc (mg/L)	GWB-4R	0.008677	0.004539	0.16	No	16	0.01116	0.006702	31.25	Kaplan-Meier	x^(1/3)	0.01	Param.
Zinc (mg/L)	GWB-5R	0.02	0.0023	0.16	No	16	0.01588	0.007495	75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.02	0.0032	0.16	No	16	0.01415	0.007714	56.25	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-1	0.02	0.0057	0.16	No	16	0.01526	0.007441	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.0031	0.16	No	16	0.01487	0.007904	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0025	0.16	No	16	0.009019	0.008732	25	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.039	0.0027	0.16	No	16	0.02045	0.01819	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	19	0.01682	0.006502	78.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	18	0.01895	0.005959	83.33	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	19	0.01362	0.008076	57.89	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01465	0.008288	0.16	No	16	0.01147	0.004888	12.5	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.056	0.0018	0.16	No	16	0.01656	0.01312	56.25	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	18	0.01869	0.005951	77.78	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.002	0.16	No	16	0.01437	0.007802	62.5	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0031	0.16	No	16	0.01322	0.007473	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	16	0.009862	0.008504	25	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01308	0.004223	0.16	No	4	0.01432	0.006744	50	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-24D	0.01509	-0.002391	0.16	No	4	0.01317	0.008485	50	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-25D	0.06176	-0.02013	0.16	No	4	0.02312	0.01958	25	Kaplan-Meier	No	0.01	Param.



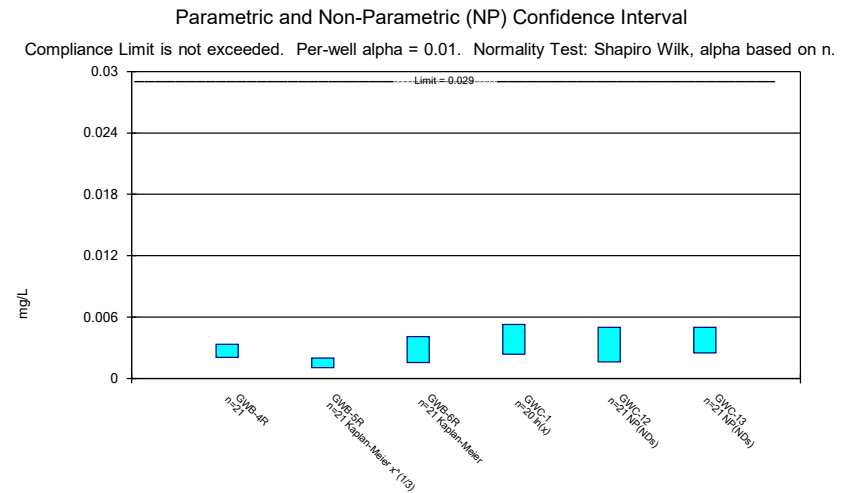
Constituent: Antimony Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Antimony Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



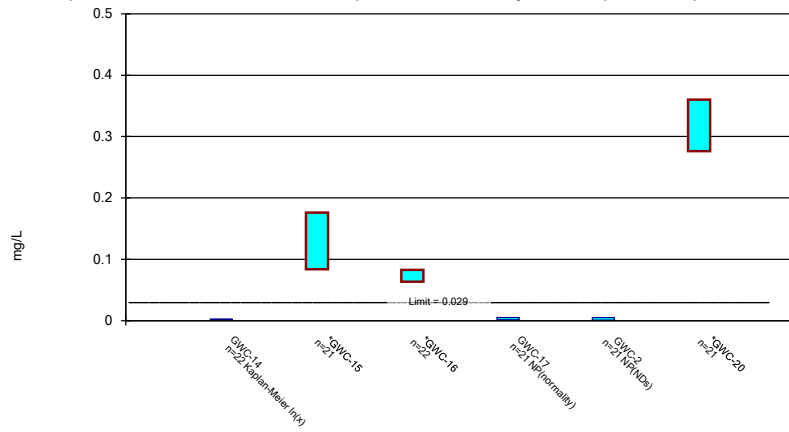
Constituent: Antimony Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Arsenic Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

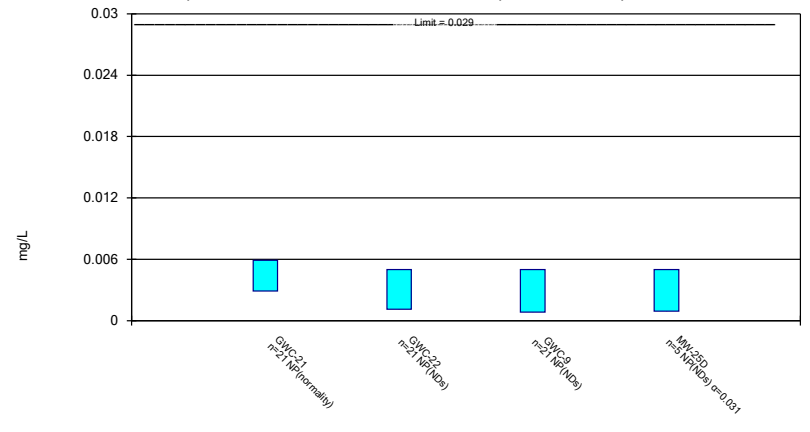
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

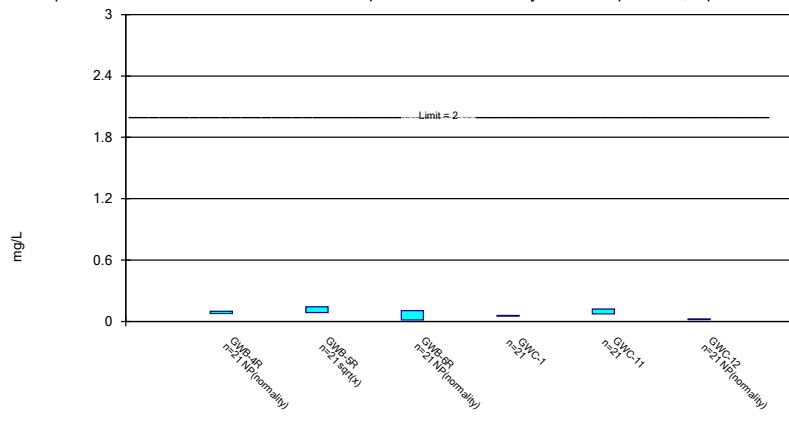
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

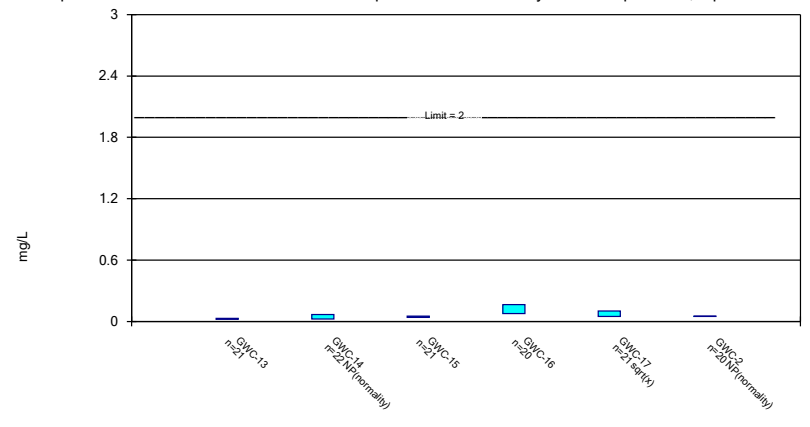
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Constituent: Barium Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

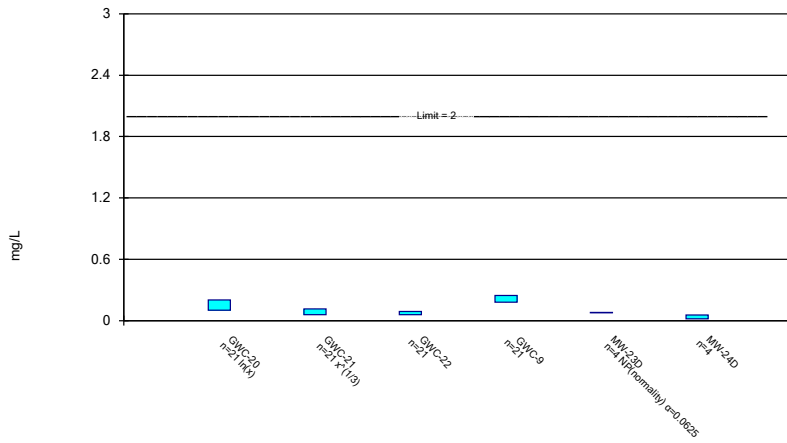
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Constituent: Barium Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

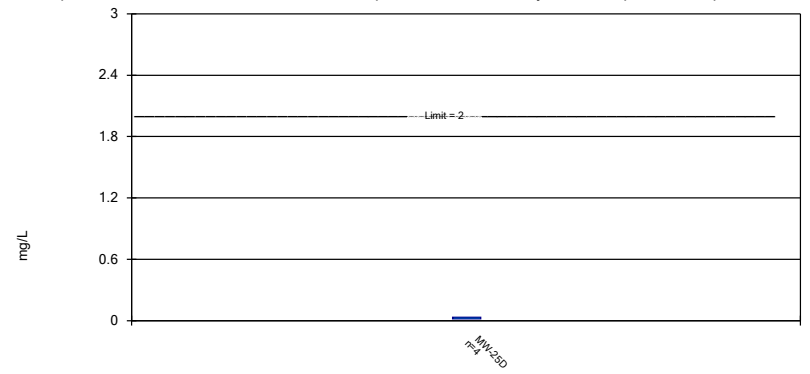
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

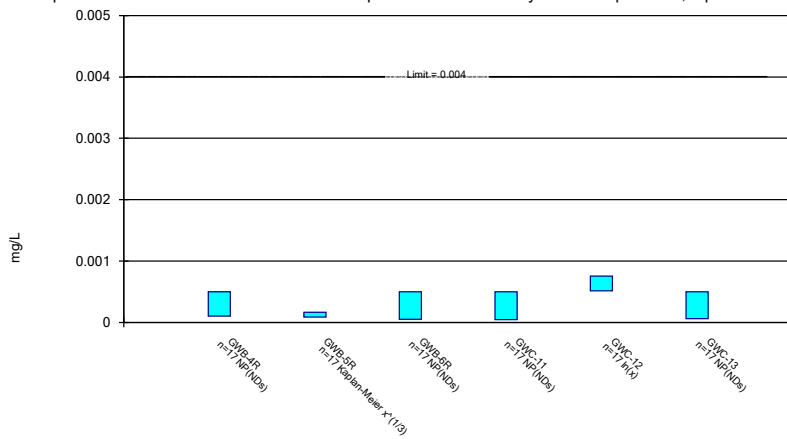
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Constituent: Barium Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

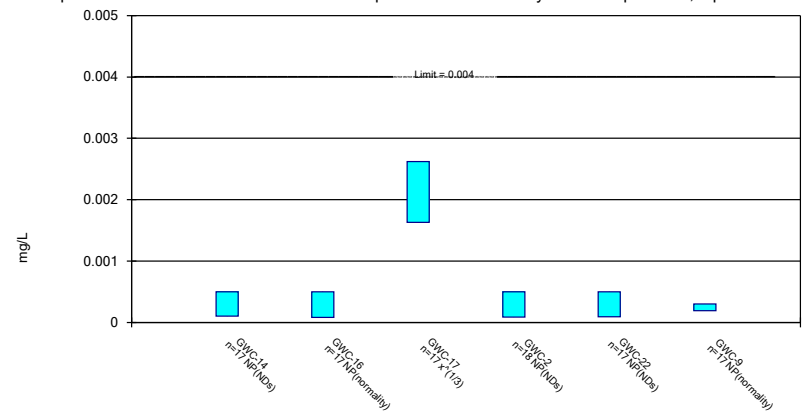
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Constituent: Beryllium Analysis Run 11/6/2022 10:01 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

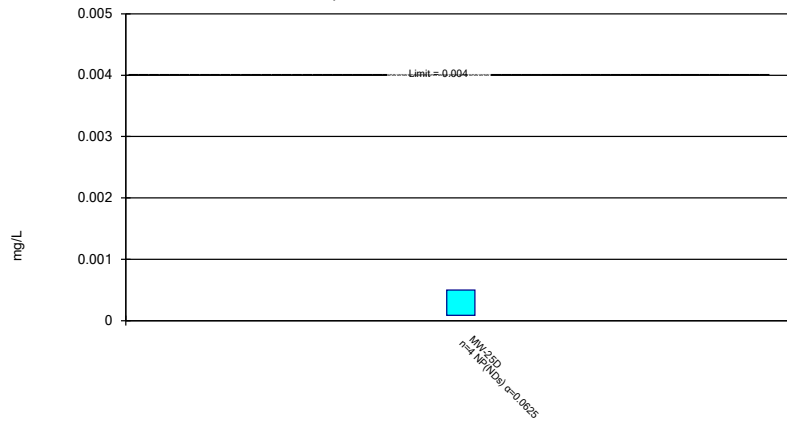
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Constituent: Beryllium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

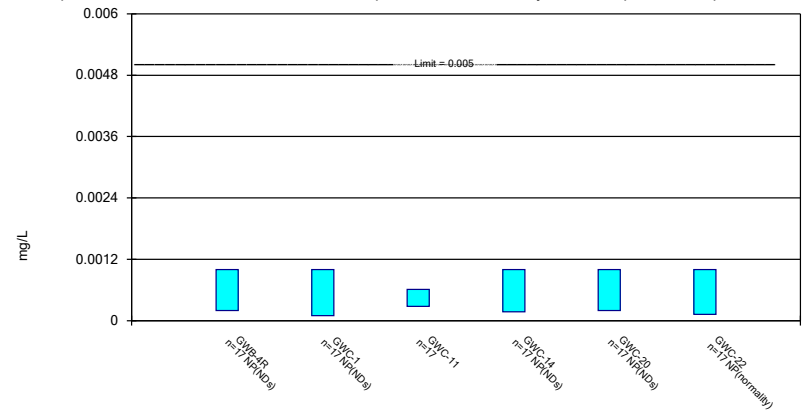
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Constituent: Beryllium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

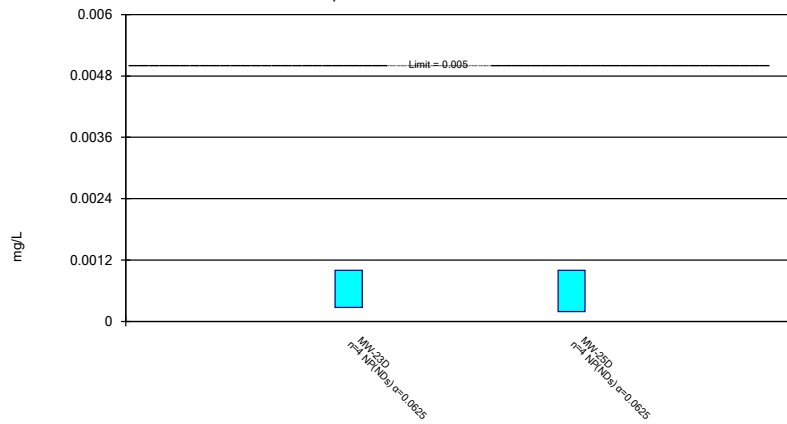
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Constituent: Cadmium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

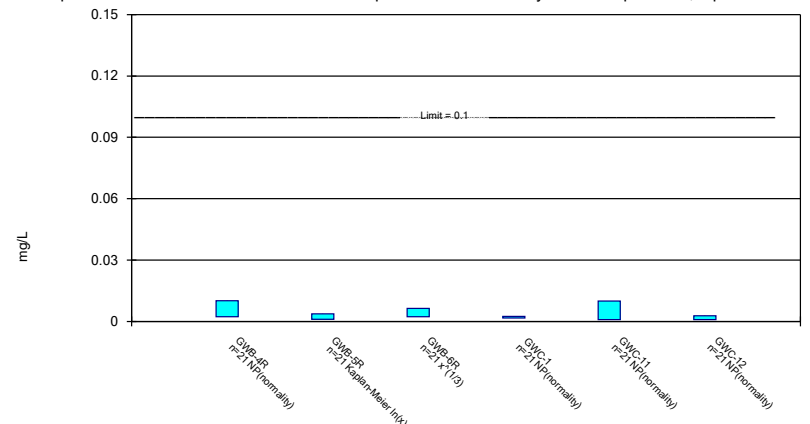
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Constituent: Cadmium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

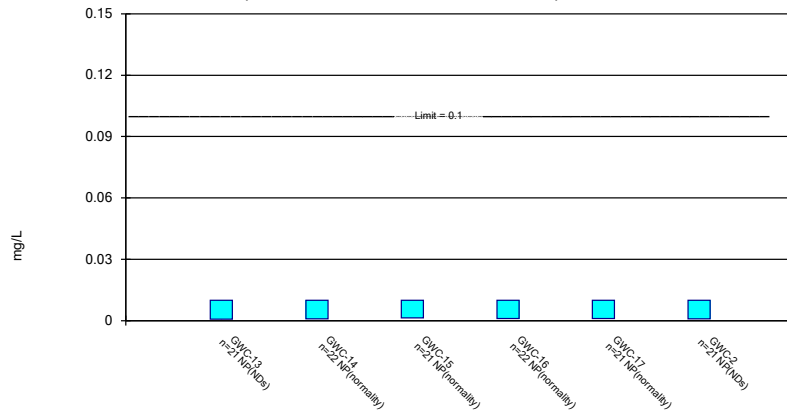
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Constituent: Chromium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

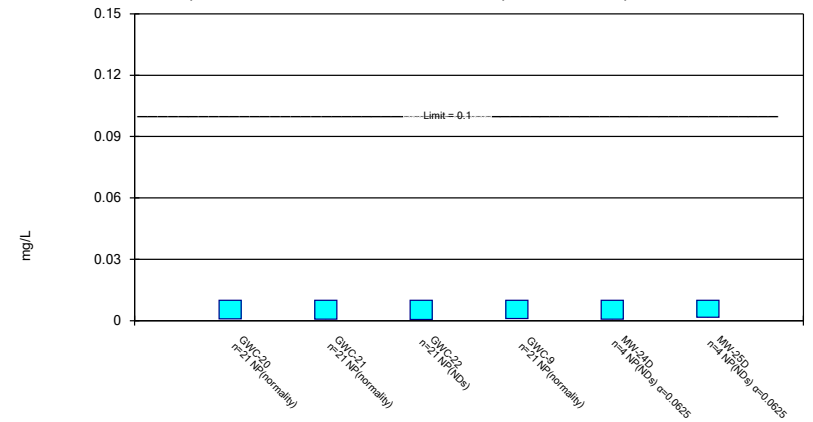
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

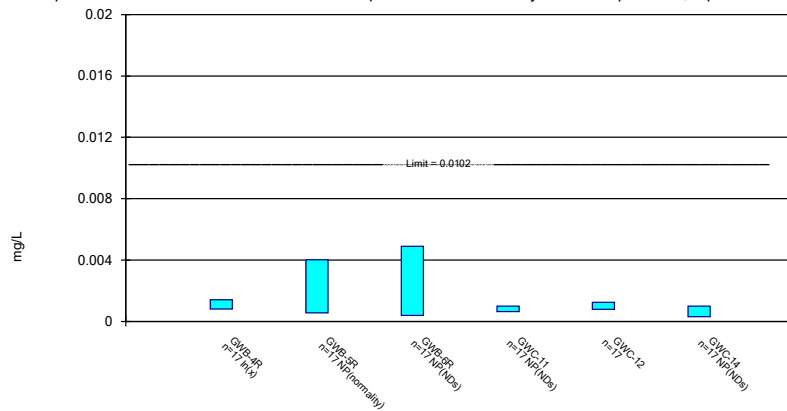
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Constituent: Chromium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

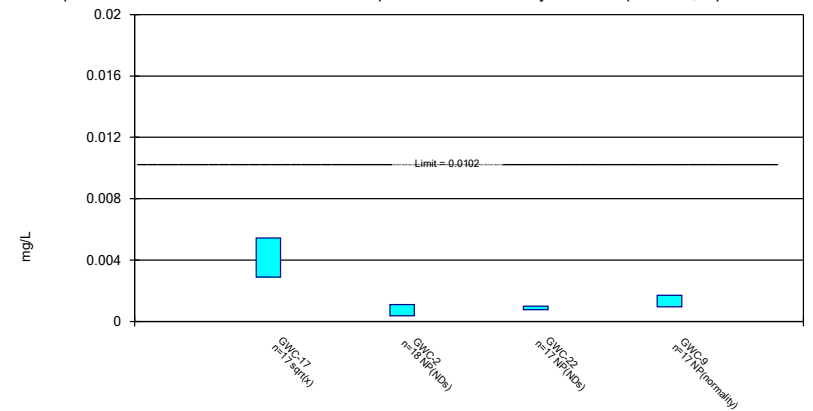
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Constituent: Cobalt Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

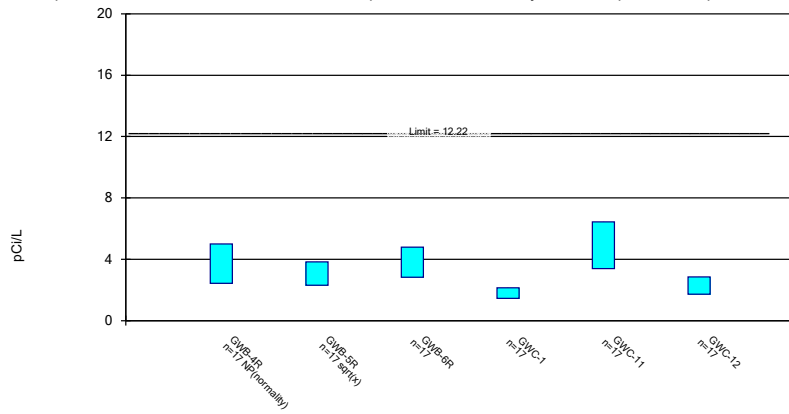
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Constituent: Cobalt Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

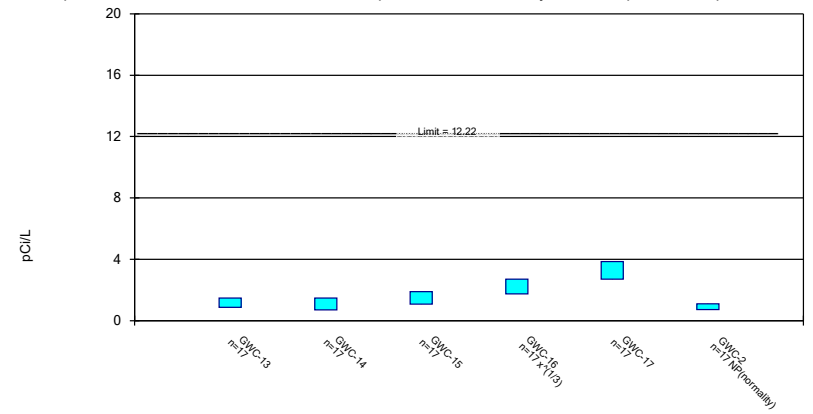
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Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Con
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

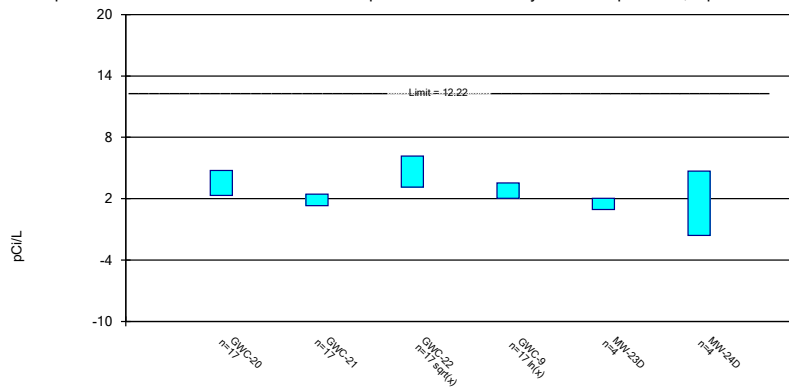
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Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Con
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

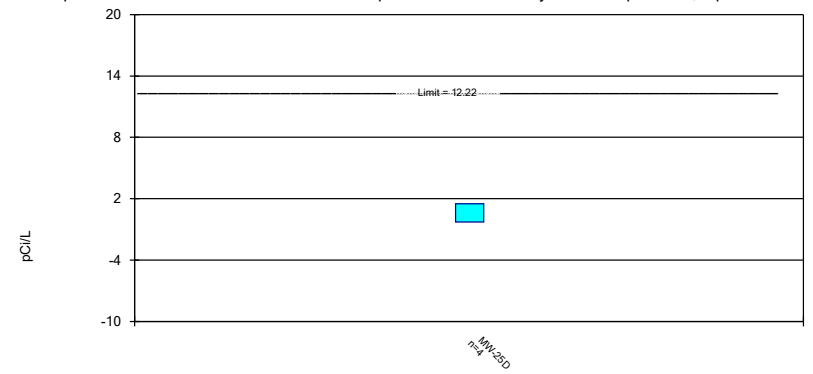
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Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Con
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

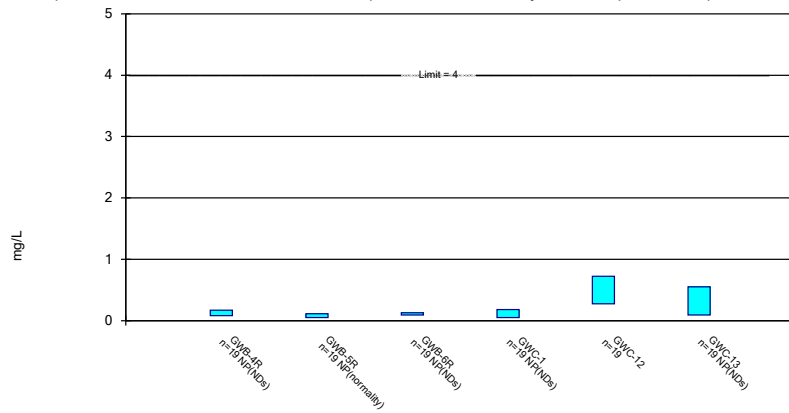
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Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Con
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

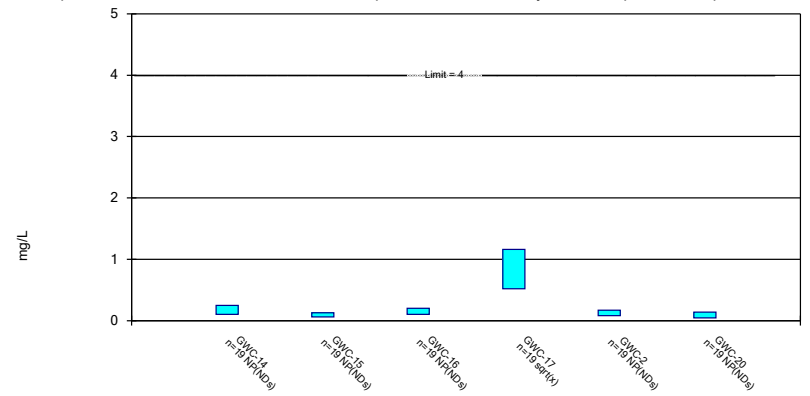
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Constituent: Fluoride Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

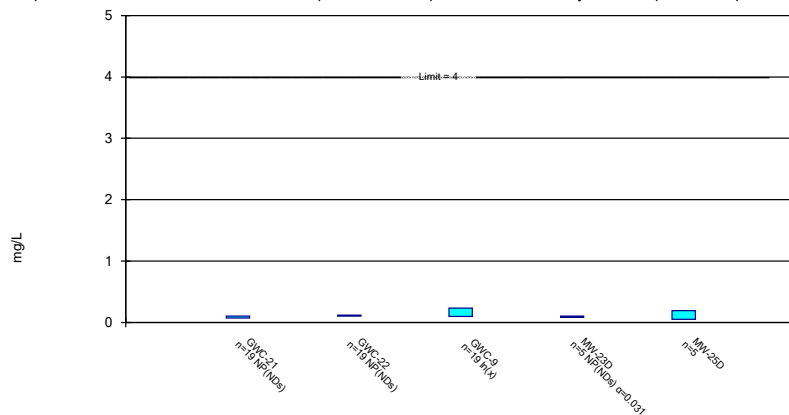
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

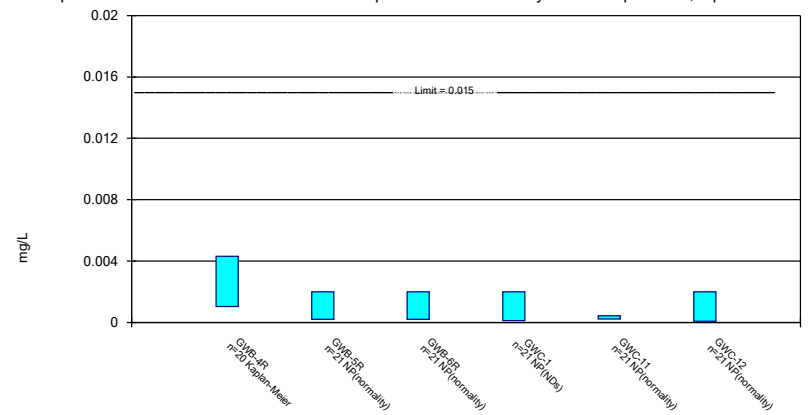
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Constituent: Fluoride Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

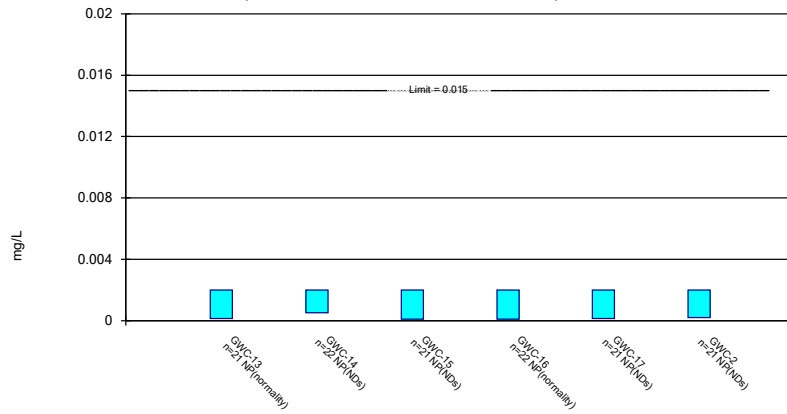
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Constituent: Lead Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

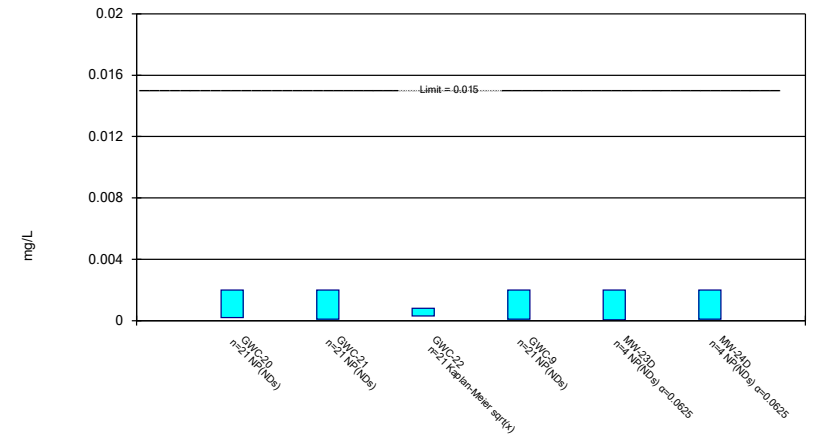
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

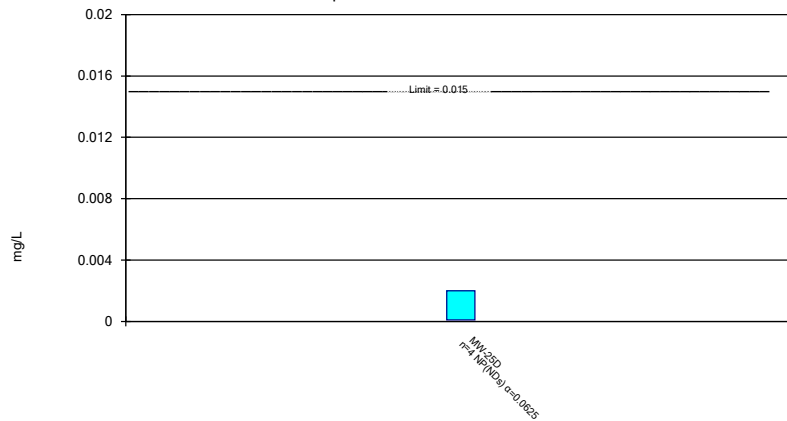
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

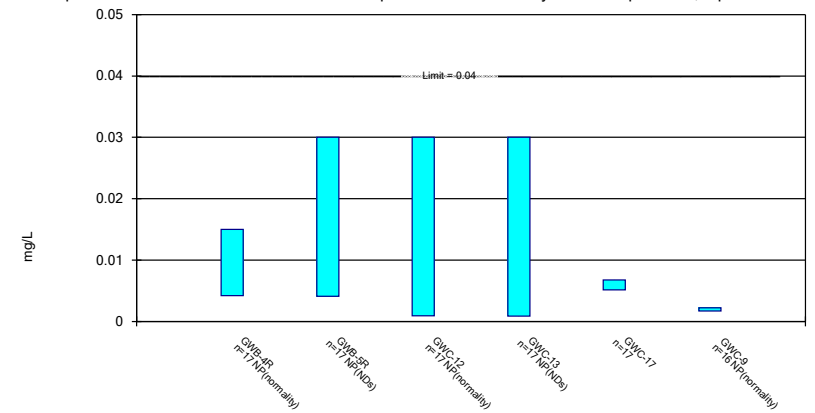
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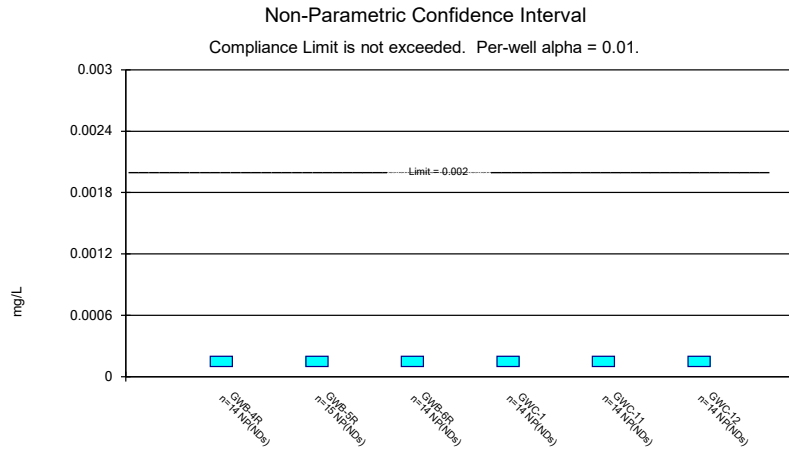
Constituent: Lead Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

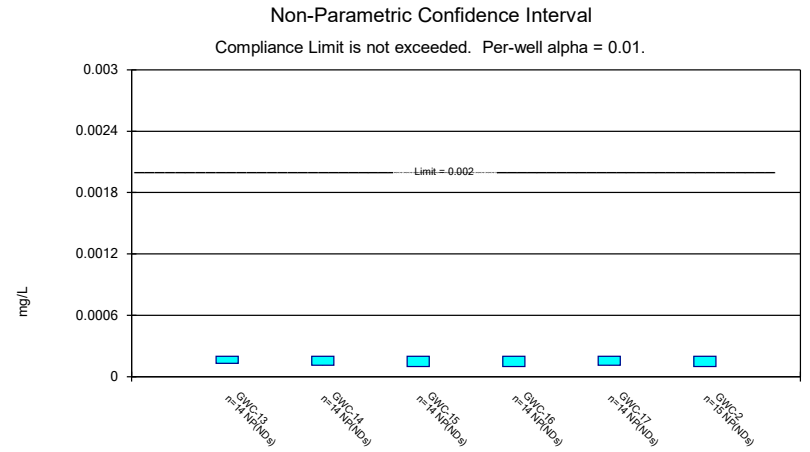
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



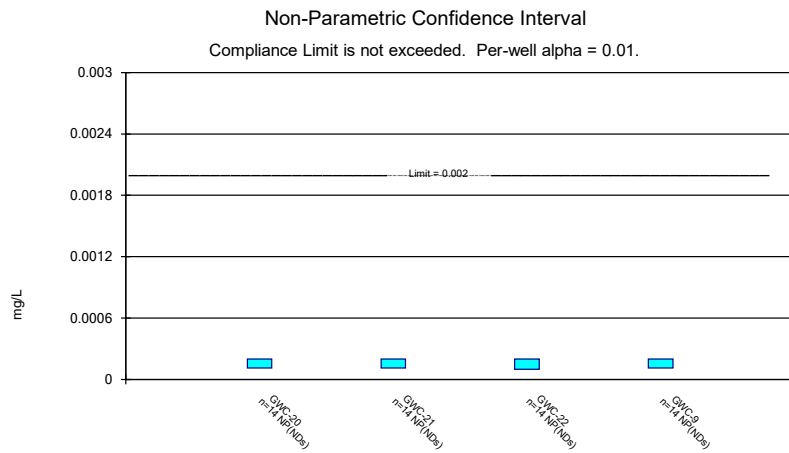
Constituent: Lithium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



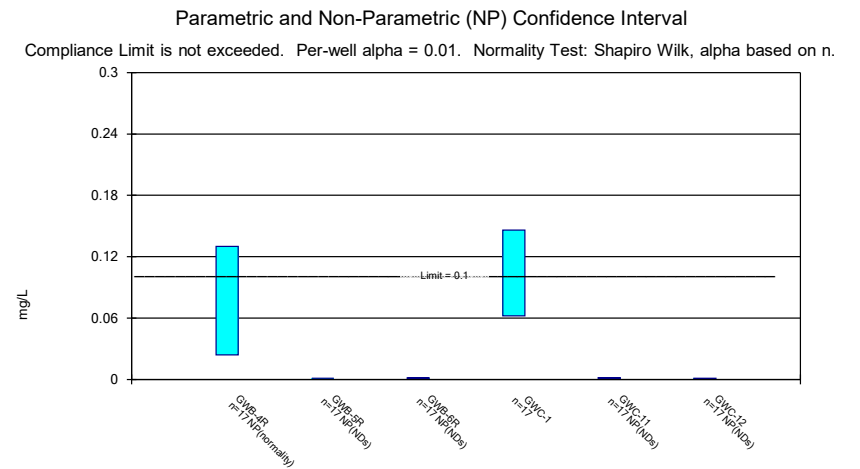
Constituent: Mercury Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Mercury Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



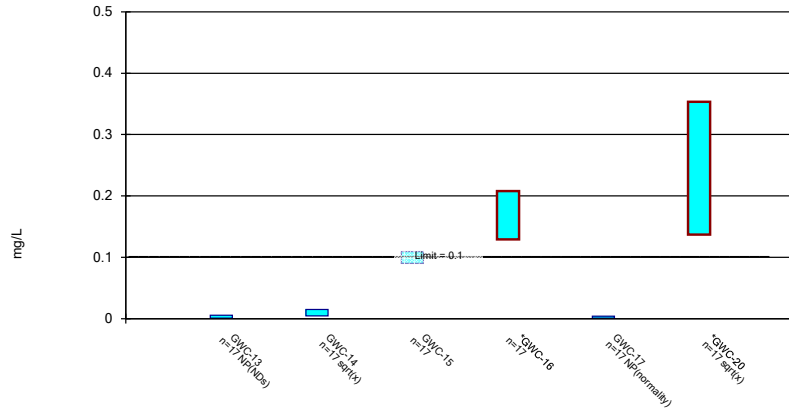
Constituent: Mercury Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Molybdenum Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

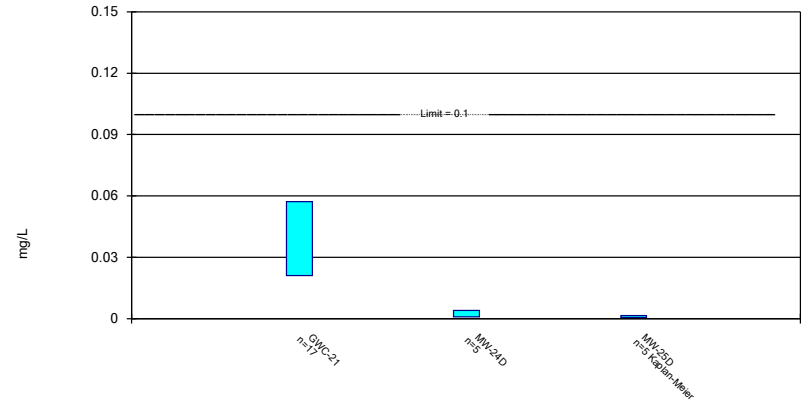
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

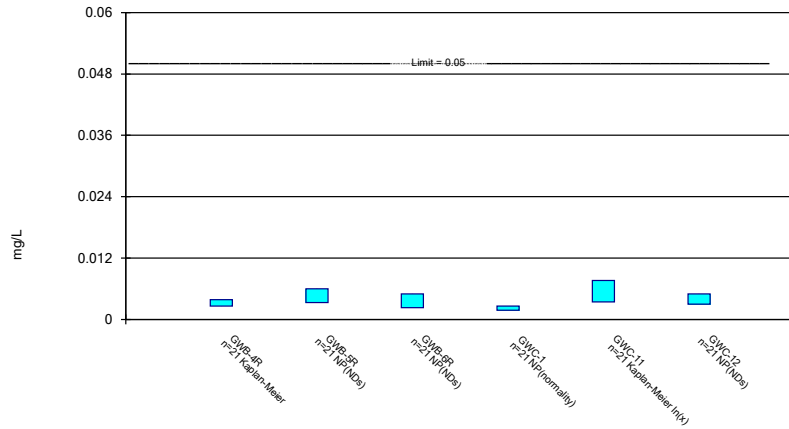
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

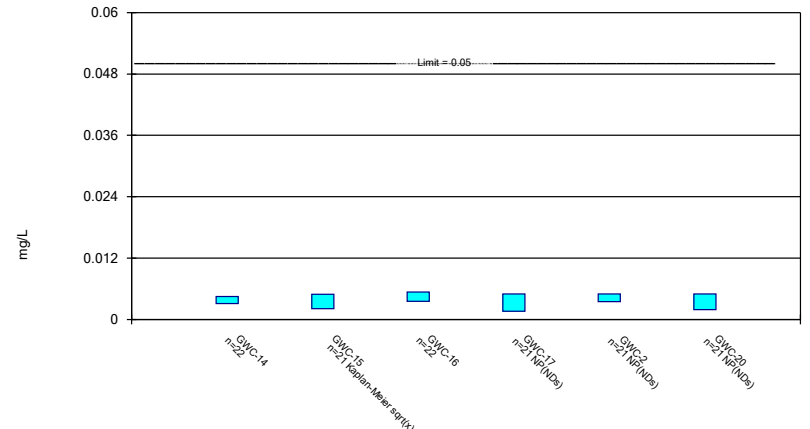
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

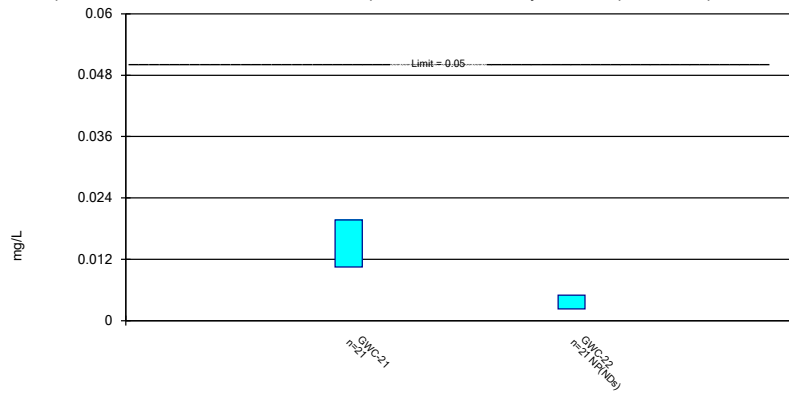
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

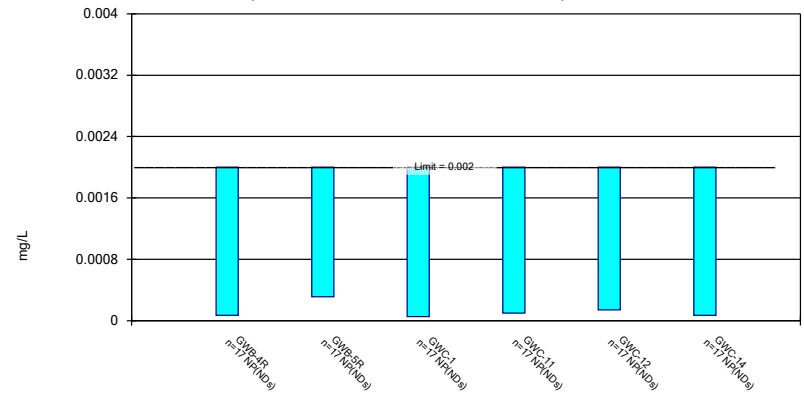
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

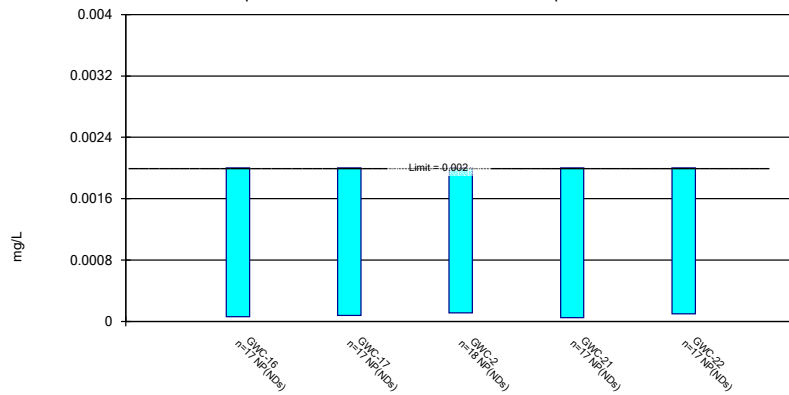
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

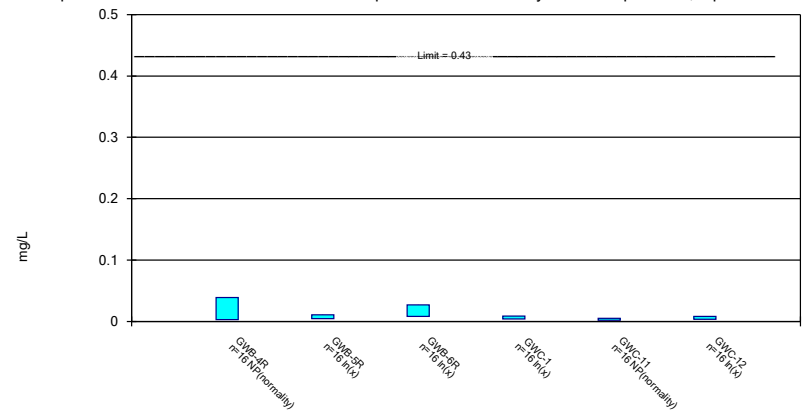
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

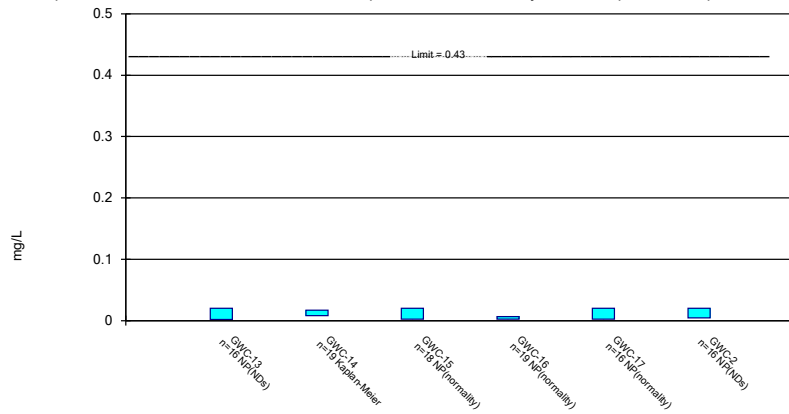
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 11/6/2022 10:02 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

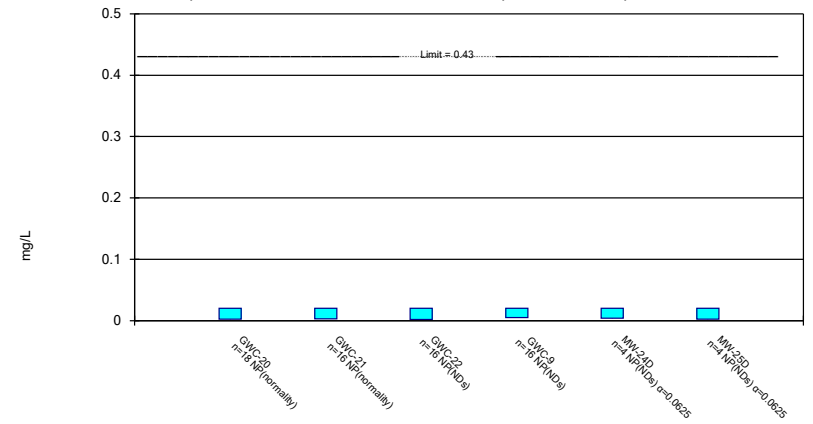
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

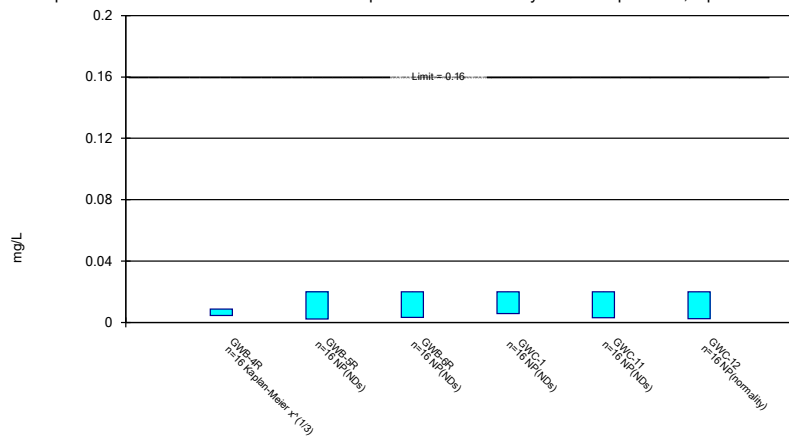
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Vanadium Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

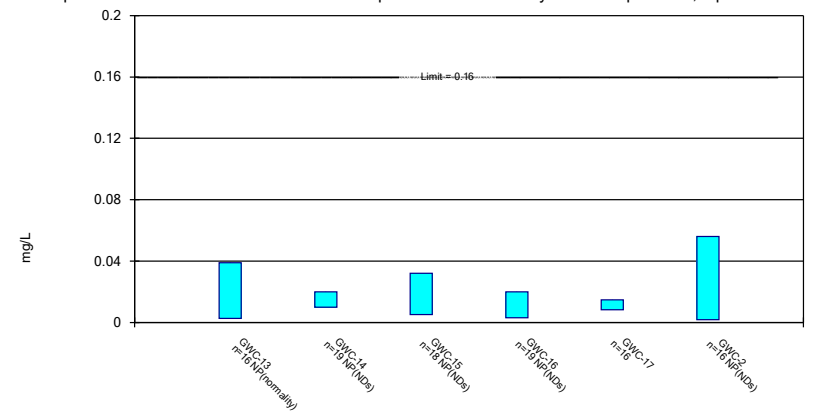
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

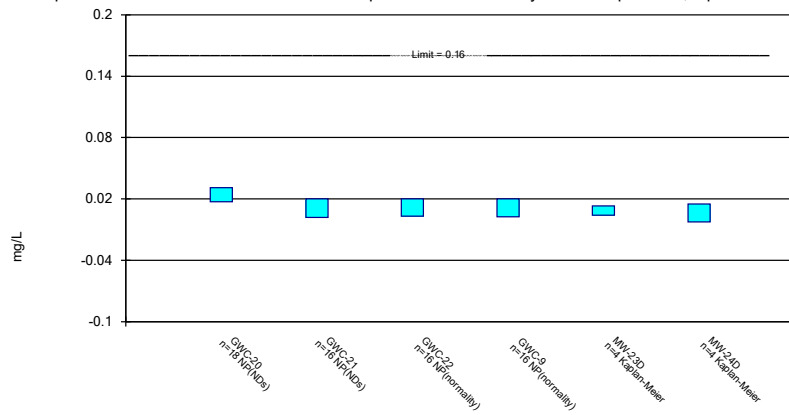
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

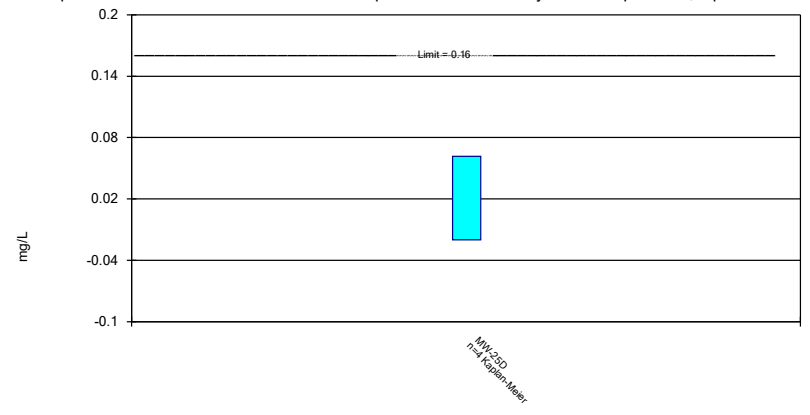
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.003		
1/18/2016	<0.003	<0.003	<0.003			<0.003
1/19/2016					<0.003	
7/26/2016					0.0005 (J)	
7/27/2016		<0.003		<0.003		<0.003
7/28/2016			<0.003			
7/29/2016	0.0003 (J)					
8/30/2016		<0.003	<0.003	<0.003		
8/31/2016					<0.003	<0.003
9/1/2016	<0.003					
10/25/2016				<0.003		
10/26/2016	<0.003	<0.003	<0.003		<0.003	<0.003
1/3/2017		<0.003				
1/4/2017				<0.003	<0.003	<0.003
1/5/2017			<0.003			
1/6/2017	<0.003					
4/4/2017	<0.003			<0.003		
4/5/2017						<0.003
4/6/2017		<0.003	<0.003		0.0006 (J)	
7/10/2017						<0.003
7/11/2017					0.0009 (J)	
7/12/2017	<0.003	<0.003	<0.003	<0.003		
10/3/2017		<0.003	<0.003	<0.003	<0.003	
10/4/2017	<0.003					<0.003
1/9/2018			<0.003			
1/10/2018		<0.003		<0.003		
1/11/2018	<0.003				0.0007 (J)	<0.003
7/10/2018		<0.003	<0.003	<0.003		
7/11/2018	<0.003				<0.003	<0.003
1/16/2019	<0.003	<0.003	<0.003	<0.003		
1/17/2019					<0.003	<0.003
3/25/2019	<0.003					
3/26/2019		<0.003	<0.003	<0.003		
3/27/2019					<0.003	<0.003
8/27/2019	<0.003		<0.003	<0.003	0.00033 (J)	<0.003
8/28/2019		0.00054 (J)				
10/8/2019					0.00046 (J)	
10/9/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/7/2020	<0.003	<0.003	<0.003	<0.003	0.00066 (J)	<0.003
8/17/2020						<0.003
8/18/2020					0.00064 (J)	
8/19/2020	<0.003	<0.003	<0.003	0.00061 (J)		
9/28/2020				0.00035 (J)		
9/29/2020					0.00051 (J)	<0.003
9/30/2020		0.0003 (J)	0.00059 (J)			
10/1/2020	<0.003					
3/10/2021	<0.003	<0.003	0.00029 (J)	0.00069 (J)	0.00076 (J)	0.0003 (J)
9/21/2021	<0.003	0.0013 (J)	<0.003		<0.003	<0.003
9/23/2021				0.0016 (J)		
2/2/2022	<0.003		<0.003			
2/3/2022		<0.003		<0.003	<0.003	<0.003
8/30/2022	<0.003	<0.003	<0.003			<0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.003	
9/1/2022				<0.003		
Mean	0.002871	0.002673	0.002756	0.002583	0.00186	0.002871
Std. Dev.	0.0005892	0.0008364	0.0007715	0.0009051	0.00123	0.0005892
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0013	0.00059	0.0016	0.0006	0.0003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-17	GWC-2	GWC-20	GWC-21
1/17/2016		<0.003		<0.003	<0.003	<0.003
1/18/2016	<0.003		<0.003			
7/26/2016	0.0006 (J)					
7/27/2016		<0.003		<0.003		
7/28/2016					0.0019 (J)	<0.003
7/29/2016			<0.003			
8/31/2016	<0.003			<0.003		
9/1/2016		<0.003	<0.003		<0.003	<0.003
10/25/2016		<0.003			<0.003	<0.003
10/26/2016	<0.003		<0.003	<0.003		
1/4/2017					<0.003	<0.003
1/5/2017	<0.003	<0.003	<0.003	<0.003		
4/3/2017		<0.003				
4/4/2017				<0.003	<0.003	<0.003
4/5/2017			<0.003			
4/6/2017	<0.003					
7/11/2017		<0.003			<0.003	
7/12/2017	<0.003					
7/13/2017			<0.003	<0.003		<0.003
10/2/2017		<0.003			<0.003	
10/3/2017				<0.003		<0.003
10/4/2017	<0.003		<0.003			
1/9/2018		<0.003				<0.003
1/10/2018	<0.003			<0.003	<0.003	
1/11/2018			<0.003			
7/9/2018					<0.003	
7/10/2018		<0.003		<0.003		<0.003
7/11/2018	<0.003		<0.003			
1/16/2019	<0.003		<0.003			
1/17/2019		<0.003				<0.003
1/21/2019				<0.003	<0.003	
3/25/2019					<0.003	
3/26/2019	<0.003	<0.003	<0.003			<0.003
7/30/2019				<0.003		
8/27/2019	<0.003	<0.003		<0.003		
8/28/2019			<0.003		<0.003	<0.003
10/8/2019	<0.003	<0.003				<0.003
10/9/2019			<0.003	<0.003	<0.003	
4/7/2020		<0.003				<0.003
4/8/2020	<0.003		<0.003	0.0013 (J)	<0.003	
8/17/2020	<0.003					
8/18/2020		<0.003	<0.003	<0.003	<0.003	<0.003
9/28/2020	<0.003					
9/29/2020				0.0016 (J)		
9/30/2020		<0.003	<0.003		<0.003	0.00033 (J)
3/11/2021			0.00039 (J)			
3/12/2021		0.0018 (J)			0.00065 (J)	
3/15/2021	<0.003			<0.003		
3/16/2021						<0.003
9/21/2021	<0.003					
9/22/2021			0.0014 (J)	<0.003	<0.003	<0.003
9/23/2021		<0.003				

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-17	GWC-2	GWC-20	GWC-21
2/1/2022			<0.003		<0.003	<0.003
2/2/2022				<0.003		
2/3/2022	<0.003	<0.003				
8/30/2022					<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003			
9/1/2022				<0.003		
Mean	0.002886	0.002943	0.0028	0.002852	0.002836	0.002873
Std. Dev.	0.0005237	0.0002619	0.000653	0.0004686	0.0005552	0.0005826
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0018	0.0014	0.0016	0.0019	0.00033

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-9
1/18/2016	<0.003	<0.003
7/28/2016		<0.003
7/29/2016	<0.003	
8/31/2016	<0.003	<0.003
10/26/2016	<0.003	
10/27/2016		0.0016 (J)
1/4/2017	<0.003	
1/6/2017		<0.003
4/6/2017	<0.003	<0.003
7/11/2017	<0.003	
7/12/2017		<0.003
10/4/2017	<0.003	<0.003
1/11/2018	<0.003	<0.003
7/11/2018	<0.003	<0.003
1/18/2019	<0.003	<0.003
3/27/2019	<0.003	<0.003
8/27/2019	0.00045 (J)	
8/28/2019		<0.003
10/9/2019	<0.003	<0.003
4/7/2020	0.00049 (J)	
4/8/2020		0.00033 (J)
8/18/2020	0.0022 (J)	
8/19/2020		<0.003
9/30/2020	0.0016 (J)	
10/1/2020		<0.003
3/10/2021	0.0004 (J)	<0.003
9/21/2021	<0.003	
9/22/2021		<0.003
2/2/2022		<0.003
2/3/2022	<0.003	
8/31/2022	<0.003	
9/1/2022		<0.003
Mean	0.00253	0.002806
Std. Dev.	0.0009363	0.0006442
Upper Lim.	0.003	0.003
Lower Lim.	0.0022	0.0016

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
1/17/2016				0.024 (O)		
1/18/2016	<0.005	<0.005	<0.005		<0.005	<0.005
7/26/2016						<0.005
7/27/2016		0.0008 (J)		0.0046 (J)	<0.005	
7/28/2016			0.0009 (J)			
7/29/2016	0.0014 (J)					
8/30/2016		<0.005	<0.005	0.0023 (J)		
8/31/2016					<0.005	<0.005
9/1/2016	0.0033 (J)					
10/25/2016				0.0035 (J)		
10/26/2016	0.0016 (J)	<0.005	<0.005		<0.005	<0.005
1/3/2017		<0.005				
1/4/2017				0.0018 (J)	<0.005	
1/5/2017			0.0021 (J)			<0.005
1/6/2017	<0.005					
4/4/2017	0.0021 (J)			0.0015 (J)		
4/5/2017					0.0006 (J)	
4/6/2017		0.0006 (J)	0.0011 (J)			<0.005
7/10/2017					0.0008 (J)	
7/12/2017	0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)		<0.005
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)		
10/4/2017	0.0018 (J)				0.0009 (J)	<0.005
1/9/2018			0.0017 (J)			
1/10/2018		0.0012 (J)		0.0023 (J)		0.0006 (J)
1/11/2018	0.0015 (J)				<0.005	
7/10/2018		0.0016 (J)	0.00063 (J)	0.0031 (J)		
7/11/2018	0.00095 (J)				<0.005	<0.005
1/16/2019	0.0024 (J)	0.0011 (J)	<0.005	0.0023 (J)		<0.005
1/17/2019					<0.005	
3/25/2019	0.0029 (J)					
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)		0.00058 (J)
3/27/2019					<0.005	
8/27/2019	0.0023 (J)		0.0035 (J)	0.0022 (J)	<0.005	<0.005
8/28/2019		0.0023 (J)				
10/8/2019						<0.005
10/9/2019	0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)	<0.005	
4/7/2020	0.0027 (J)	0.0011 (J)	<0.005	0.027	<0.005	
4/8/2020						<0.005
8/17/2020					<0.005	<0.005
8/19/2020	0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007		
9/28/2020				0.0058		<0.005
9/29/2020					<0.005	
9/30/2020		0.0017 (J)	0.004 (J)			
10/1/2020	0.0027 (J)					
3/10/2021	0.0025 (J)	0.0019 (J)	0.0054	0.0055	<0.005	
3/15/2021						<0.005
9/21/2021	0.0027 (J)	<0.005	0.0054		<0.005	<0.005
9/23/2021				0.0048 (J)		
2/2/2022	0.0036 (J)		0.01			
2/3/2022		0.0029 (J)		0.0057	0.0016 (J)	0.0025 (J)
8/30/2022	0.0049 (J)	0.00253 (J)	0.00716		<0.005	
8/31/2022						<0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
9/1/2022				0.00568		
Mean	0.002693	0.002535	0.003714	0.004764	0.004233	0.004461
Std. Dev.	0.00117	0.001726	0.002361	0.00551	0.001628	0.001397
Upper Lim.	0.003338	0.001983	0.004092	0.00526	0.005	0.005
Lower Lim.	0.002047	0.001062	0.001557	0.002364	0.0016	0.0025

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
1/17/2016	0.002 (J)	0.014	0.089		<0.005	0.34
1/18/2016				<0.005		
4/26/2016	0.00183 (J)		0.0731			
7/27/2016	0.0021 (J)	0.0303			<0.005	
7/28/2016			0.0627			0.209
7/29/2016				0.0009 (J)		
8/31/2016					<0.005	
9/1/2016	0.0024 (J)	0.0533	0.0551	<0.005		0.215
10/25/2016	<0.005	0.0551	0.0466			0.307
10/26/2016				<0.005	<0.005	
1/4/2017			0.0444			0.311
1/5/2017	0.0024 (J)	0.0437		<0.005	<0.005	
4/3/2017		0.0713				
4/4/2017	0.003 (J)				<0.005	0.317
4/5/2017			0.0591	0.0011 (J)		
7/11/2017	0.0019 (J)	0.0745				0.299
7/12/2017			0.0776			
7/13/2017				0.0016 (J)	<0.005	
10/2/2017	0.0026 (J)	0.0723				0.216
10/3/2017			0.0813		<0.005	
10/4/2017				0.0019 (J)		
1/9/2018	0.0021 (J)	0.0731				
1/10/2018			0.085		0.0006 (J)	0.347
1/11/2018				0.0015 (J)		
7/9/2018	0.0019 (J)					0.37
7/10/2018		0.09	0.067		<0.005	
7/11/2018				0.00082 (J)		
1/16/2019	0.0016 (J)			<0.005		
1/17/2019		0.13	0.079			
1/21/2019					<0.005	0.44
3/25/2019						0.41
3/26/2019	0.0023 (J)	0.1	0.089	0.0015 (J)		
7/30/2019					0.00039 (J)	
8/27/2019	0.0017 (J)	0.17			<0.005	
8/28/2019			0.091	0.0011 (J)		0.43
10/8/2019	0.0017 (J)	0.13	0.088			
10/9/2019				0.0011 (J)	<0.005	0.35
4/7/2020	0.0018 (J)	0.24	0.091			
4/8/2020				0.0013 (J)	0.00094 (J)	0.33
8/18/2020	0.0012 (J)	0.28	0.045	<0.005	<0.005	0.3
9/29/2020	<0.005				<0.005	
9/30/2020		0.24	0.044	0.0012 (J)		0.31
3/11/2021				0.0009 (J)		
3/12/2021		0.16				0.27
3/15/2021					<0.005	
3/16/2021	<0.005		0.064			
9/22/2021	0.0014 (J)		0.081	<0.005	<0.005	0.23
9/23/2021		0.21				
2/1/2022			0.095	<0.005		0.22
2/2/2022	0.0036 (J)				<0.005	
2/3/2022		0.23				
8/30/2022	<0.005					0.465

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2022		0.259		<0.005		
9/1/2022			0.0987		<0.005	
Mean	0.002615	0.1298	0.07303	0.002853	0.004378	0.3184
Std. Dev.	0.001262	0.08372	0.01792	0.00192	0.001565	0.07621
Upper Lim.	0.002219	0.176	0.08264	0.005	0.005	0.3604
Lower Lim.	0.001636	0.08366	0.06341	0.0011	0.00094	0.2763

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-25D
1/17/2016	0.0065			
1/18/2016		<0.005	<0.005	
7/28/2016	<0.005		<0.005	
7/29/2016		0.002 (J)		
8/31/2016		0.0017 (J)	<0.005	
9/1/2016	0.0039 (J)			
10/25/2016	<0.005			
10/26/2016		<0.005		
10/27/2016			<0.005	
1/4/2017	<0.005	<0.005		
1/6/2017			<0.005	
4/4/2017	0.0031 (J)			
4/6/2017		0.0006 (J)	<0.005	
7/11/2017		0.0012 (J)		
7/12/2017			<0.005	
7/13/2017	<0.005			
10/3/2017	<0.005			
10/4/2017		0.0025 (J)	<0.005	
1/9/2018	0.0033 (J)			
1/11/2018		0.0006 (J)	<0.005	
7/10/2018	0.0027 (J)			
7/11/2018		0.0011 (J)	<0.005	
1/17/2019	0.0022 (J)			
1/18/2019		<0.005	<0.005	
3/26/2019	0.0045 (J)			
3/27/2019		<0.005	<0.005	
8/27/2019		0.00044 (J)		
8/28/2019	0.002 (J)		<0.005	
10/8/2019	0.0028 (J)			
10/9/2019		<0.005	<0.005	
4/7/2020	<0.005	0.00043 (J)		
4/8/2020			0.00084 (J)	
8/18/2020	0.0059	<0.005		
8/19/2020			<0.005	
9/30/2020	0.0029 (J)	<0.005		
10/1/2020			<0.005	
1/20/2021				<0.005
3/10/2021		<0.005	<0.005	
3/11/2021				0.00092 (J)
3/16/2021	0.0098			
9/21/2021		<0.005		
9/22/2021	<0.005		<0.005	
9/23/2021				<0.005
2/1/2022	0.02			
2/2/2022			<0.005	
2/3/2022		<0.005		<0.005
8/30/2022	0.0271			
8/31/2022		<0.005		<0.005
9/1/2022			<0.005	
Mean	0.006271	0.00336	0.004802	0.004184
Std. Dev.	0.006103	0.001997	0.0009078	0.001825
Upper Lim.	0.0059	0.005	0.005	0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-25D
Lower Lim.	0.0029	0.0011	0.00084	0.00092

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.062		
1/18/2016	0.095	0.12	0.11			0.032
1/19/2016					0.048	
7/26/2016					0.051	
7/27/2016		0.112		0.0417		0.0191
7/28/2016			0.105			
7/29/2016	0.0883					
8/30/2016		0.135	0.106	0.0545		
8/31/2016					0.0565	0.019
9/1/2016	0.123					
10/25/2016				0.0504		
10/26/2016	0.0863	0.103	0.107		0.0591	0.0197
1/3/2017		0.118				
1/4/2017				0.0534	0.0598	0.0174
1/5/2017			0.107			
1/6/2017	0.0758					
4/4/2017	0.091			0.0549		
4/5/2017						0.0174
4/6/2017		0.162	0.111		0.0813	
7/10/2017						0.0172
7/11/2017					0.0302	
7/12/2017	0.0941	0.157	0.106	0.0614		
10/3/2017		0.127	0.105	0.0436	0.103	
10/4/2017	0.0994					0.0162
1/9/2018			0.0969			
1/10/2018		0.158		0.053		
1/11/2018	0.088				0.166	0.018
7/10/2018		0.31	0.087	0.059		
7/11/2018	0.071				0.12	0.014
1/16/2019	0.083	0.054	0.013 (J)	0.054		
1/17/2019					0.039	0.017
3/25/2019	0.077					
3/26/2019		0.057	0.012 (J)	0.055		
3/27/2019					0.053	0.017
8/27/2019	0.076		0.013	0.054	0.12	0.017
8/28/2019		0.1				
10/8/2019					0.13	
10/9/2019	0.076	0.13	0.014 (J)	0.058		0.019
4/7/2020	0.09	0.098	0.01 (J)	0.05	0.14	0.017
8/17/2020						0.018
8/18/2020					0.12	
8/19/2020	0.076	0.1	0.064	0.057		
9/28/2020				0.051		
9/29/2020					0.14	0.018
9/30/2020		0.16	0.092			
10/1/2020	0.077					
3/10/2021	0.07	0.096	0.027	0.052	0.13	0.028
9/21/2021	0.098	0.076	0.077		0.12	0.023
9/23/2021				0.062		
2/2/2022	0.17		0.026			
2/3/2022		0.062		0.051	0.17	0.025
8/30/2022	0.134	0.051	0.0266			0.0275

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					0.115	
9/1/2022				0.0583		
Mean	0.09233	0.1184	0.0674	0.0541	0.09771	0.01983
Std. Dev.	0.02394	0.05621	0.04169	0.005314	0.04325	0.004585
Upper Lim.	0.098	0.1426	0.106	0.05704	0.1216	0.023
Lower Lim.	0.076	0.0869	0.014	0.05117	0.07385	0.017

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.038	0.048	0.056		0.049
1/18/2016	0.026				0.13	
4/26/2016		0.025		0.0721		
7/26/2016	0.0236					
7/27/2016		0.0248	0.0487			0.0796
7/28/2016				0.0534		
7/29/2016					0.181	
8/31/2016	0.0273					0.0429
9/1/2016		0.0346	0.0403	0.0445	0.203	
10/25/2016		0.0248	0.0329	0.0464		
10/26/2016	0.0238				0.177	0.113 (O)
1/4/2017				0.0379		
1/5/2017	0.0218	0.0245	0.0392		0.142	0.0526
4/3/2017			0.0439			
4/4/2017		0.0342				0.0503
4/5/2017				0.0534	0.106	
4/6/2017	0.0204					
7/11/2017		0.0276	0.051			
7/12/2017	0.0161			0.0944		
7/13/2017					0.0686	0.0529
10/2/2017		0.0274	0.047			
10/3/2017				0.135 (O)		0.057
10/4/2017	0.0185				0.0589	
1/9/2018		0.0222	0.0431			
1/10/2018	0.0166			0.0603		0.0527
1/11/2018					0.0412	
7/9/2018		0.026				
7/10/2018			0.047	0.16 (O)		0.054
7/11/2018	0.019				0.049	
1/16/2019	0.019	0.028			0.063	
1/17/2019			0.042	0.13		
1/21/2019						0.05
3/26/2019	0.026	0.034	0.047	0.14	0.025	
7/30/2019						0.052
8/27/2019	0.024	0.067	0.049			0.053
8/28/2019				0.09	0.026	
10/8/2019	0.024	0.085	0.057	0.13		
10/9/2019					0.032	0.05
4/7/2020		0.073	0.033	0.13		
4/8/2020	0.027				0.055	0.061
8/17/2020	0.024					
8/18/2020		0.028	0.03	0.32	0.074	0.05
9/28/2020	0.029					
9/29/2020		0.026				0.049
9/30/2020			0.034	0.14	0.035	
3/11/2021					0.044	
3/12/2021			0.038			
3/15/2021	0.034					0.053
3/16/2021		0.037		0.16		
9/21/2021	0.037					
9/22/2021		0.11		0.26	0.058	0.047
9/23/2021			0.062			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				0.23	0.055	
2/2/2022		0.1				0.052
2/3/2022	0.038		0.061			
8/30/2022		0.0773				
8/31/2022	0.0379		0.055		0.0375	
9/1/2022				0.165		0.0508
Mean	0.02538	0.04429	0.0452	0.1207	0.0791	0.05294
Std. Dev.	0.006658	0.02732	0.009027	0.07768	0.05487	0.007254
Upper Lim.	0.02905	0.067	0.05018	0.1648	0.1004	0.053
Lower Lim.	0.02171	0.025	0.04022	0.07656	0.04728	0.05

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	0.08	0.079				
1/18/2016			0.062	0.2		
7/28/2016	0.164	0.0626		0.234		
7/29/2016			0.0575			
8/31/2016			0.0693	0.284		
9/1/2016	0.0976	0.077				
10/25/2016	0.0702	0.0217				
10/26/2016			0.0966			
10/27/2016				0.244		
1/4/2017	0.0999	0.0617	0.0975			
1/6/2017				0.305		
4/4/2017	0.136	0.0761				
4/6/2017			0.064	0.249		
7/11/2017	0.145		0.0778			
7/12/2017				0.256		
7/13/2017		0.0428				
10/2/2017	0.148					
10/3/2017		0.0376				
10/4/2017			0.156	0.356		
1/9/2018		0.0704				
1/10/2018	0.0788					
1/11/2018			0.0702	0.226		
7/9/2018	0.087					
7/10/2018		0.061				
7/11/2018			0.12	0.29		
1/17/2019		0.061				
1/18/2019			0.052	0.21		
1/21/2019	0.069					
3/25/2019	0.085					
3/26/2019		0.084				
3/27/2019			0.057	0.19		
8/27/2019			0.097			
8/28/2019	0.078	0.063		0.17		
10/8/2019		0.079				
10/9/2019	0.078		0.065	0.18		
4/7/2020		0.054	0.1			
4/8/2020	0.19			0.15		
8/18/2020	0.38	0.18	0.085			
8/19/2020				0.17		
9/30/2020	0.35	0.19	0.045			
10/1/2020				0.15		
3/10/2021			0.049	0.15		
3/11/2021					0.076	0.047
3/12/2021	0.34					
3/16/2021		0.18				
9/21/2021			0.036			
9/22/2021	0.42	0.046		0.15	0.076	0.038
2/1/2022	0.36	0.24				0.036
2/2/2022				0.15		
2/3/2022			0.038		0.079	
8/30/2022	0.21	0.191				
8/31/2022			0.0741		0.0765	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
9/1/2022				0.151		0.0267
Mean	0.1746	0.09323	0.07471	0.2126	0.07688	0.03693
Std. Dev.	0.1195	0.06186	0.02902	0.06074	0.001436	0.008328
Upper Lim.	0.2024	0.1145	0.09072	0.2461	0.079	0.05583
Lower Lim.	0.1006	0.05692	0.0587	0.1791	0.076	0.01802

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	0.03
9/23/2021	0.024
2/3/2022	0.024
8/31/2022	0.0216
Mean	0.0249
Std. Dev.	0.003583
Upper Lim.	0.03304
Lower Lim.	0.01676

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12	GWC-13
8/30/2016		0.0002 (J)	<0.0005			
8/31/2016				<0.0005	0.0011 (J)	<0.0005
9/1/2016	0.0004 (J)					
10/26/2016	0.0001 (J)	0.0001 (J)	<0.0005	<0.0005	0.0011 (J)	<0.0005
1/3/2017		0.0001 (J)				
1/4/2017				<0.0005	0.0009 (J)	
1/5/2017			<0.0005			<0.0005
1/6/2017	0.0001 (J)					
4/4/2017	0.0001 (J)					
4/5/2017					0.0008 (J)	
4/6/2017		0.0003 (J)	<0.0005	<0.0005		<0.0005
7/10/2017					0.0008 (J)	
7/11/2017				<0.0005		
7/12/2017	<0.0005	0.0002 (J)	<0.0005			<0.0005
10/3/2017		0.0002 (J)	<0.0005	<0.0005		
10/4/2017	0.0001 (J)				0.0006 (J)	<0.0005
1/9/2018			<0.0005			
1/10/2018		0.0003 (J)				<0.0005
1/11/2018	0.0001 (J)			<0.0005	0.0006 (J)	
7/10/2018		0.00028 (J)	<0.0005			
7/11/2018	<0.0005			<0.0005	0.00061 (J)	5.8E-05 (J)
8/27/2019	<0.0005		<0.0005	<0.0005	0.00047 (J)	<0.0005
8/28/2019		7.6E-05 (J)				
10/8/2019				<0.0005		<0.0005
10/9/2019	<0.0005	<0.0005	<0.0005		0.00046 (J)	
4/7/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00051 (J)	
4/8/2020						<0.0005
8/17/2020					0.00046 (J)	<0.0005
8/18/2020				<0.0005		
8/19/2020	<0.0005	<0.0005	5E-05 (J)			
9/28/2020						<0.0005
9/29/2020				<0.0005	0.00043 (J)	
9/30/2020		6.5E-05 (J)	4.6E-05 (J)			
10/1/2020	<0.0005					
3/10/2021	<0.0005	8.2E-05 (J)	<0.0005	4.7E-05 (J)	0.00054	
3/15/2021						<0.0005
9/21/2021	<0.0005	9.9E-05 (J)	<0.0005	<0.0005	0.00047 (J)	<0.0005
2/2/2022	<0.0005		<0.0005			
2/3/2022		0.00014 (J)		<0.0005	0.00056	<0.0005
8/30/2022	<0.0005	<0.0005	<0.0005		0.000663	
8/31/2022				<0.0005		<0.0005
Mean	0.0003765	0.0002436	0.0004468	0.0004734	0.0006514	0.000474
Std. Dev.	0.0001855	0.000165	0.0001501	0.0001099	0.0002157	0.0001072
Upper Lim.	0.0005	0.0001657	0.0005	0.0005	0.0007522	0.0005
Lower Lim.	0.0001	8.436E-05	5E-05	4.7E-05	0.0005148	5.8E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-16	GWC-17	GWC-2	GWC-22	GWC-9
8/31/2016				<0.0005	0.0002 (J)	0.0003 (J)
9/1/2016	0.0001 (J)	0.0001 (J)	0.0014 (J)			
10/25/2016	<0.0005	<0.0005				
10/26/2016			0.0016 (J)	0.0003 (J)	0.0002 (J)	
10/27/2016						0.0003 (J)
1/4/2017		9E-05 (J)			0.0001 (J)	
1/5/2017	<0.0005		0.0019 (J)	<0.0005		
1/6/2017						0.0002 (J)
4/4/2017	9E-05 (J)			9E-05 (J)		
4/5/2017		9E-05 (J)	0.0024 (J)			
4/6/2017					<0.0005	0.0003 (J)
7/11/2017	<0.0005				<0.0005	
7/12/2017		<0.0005				0.0003 (J)
7/13/2017			0.0034	<0.0005		
10/2/2017	<0.0005					
10/3/2017		<0.0005		<0.0005		
10/4/2017			0.0037		0.0001 (J)	0.0002 (J)
1/9/2018	<0.0005					
1/10/2018		0.0001 (J)		<0.0005		
1/11/2018			0.0033		<0.0005	0.0003 (J)
7/9/2018	6.2E-05 (J)					
7/10/2018		6E-05 (J)		<0.0005		
7/11/2018			0.0038		7E-05 (J)	0.0003 (J)
7/30/2019				<0.0005		
8/27/2019	<0.0005			<0.0005	9E-05 (J)	
8/28/2019		8E-05 (J)	0.0017 (J)			0.00022 (J)
10/8/2019	<0.0005	9.8E-05 (J)				
10/9/2019			0.0018 (J)	<0.0005	<0.0005	0.00023 (J)
4/7/2020	<0.0005	<0.0005			<0.0005	
4/8/2020			0.0017 (J)	8.8E-05 (J)		0.00019 (J)
8/18/2020	<0.0005	6.8E-05 (J)	0.0016 (J)	5.1E-05 (J)	7.6E-05 (J)	
8/19/2020						0.00022 (J)
9/29/2020	<0.0005			7.5E-05 (J)		
9/30/2020		8.9E-05 (J)	0.0013 (J)		<0.0005	
10/1/2020						0.0002 (J)
3/10/2021					<0.0005	0.00019 (J)
3/11/2021			0.0012			
3/15/2021				7.3E-05 (J)		
3/16/2021	<0.0005	<0.0005				
9/21/2021					<0.0005	
9/22/2021	<0.0005	6E-05 (J)	0.0017	<0.0005		0.00017 (J)
2/1/2022		<0.0005	0.002			
2/2/2022	<0.0005			<0.0005		0.00018 (J)
2/3/2022					<0.0005	
8/30/2022	<0.0005					
8/31/2022			0.00258		<0.0005	
9/1/2022		<0.0005		<0.0005		<0.0005
Mean	0.0004266	0.000255	0.002181	0.0003709	0.0003433	0.0002529
Std. Dev.	0.0001636	0.0002116	0.0008605	0.0001944	0.0001961	8.122E-05
Upper Lim.	0.0005	0.0005	0.00262	0.0005	0.0005	0.0003
Lower Lim.	0.0001	8E-05	0.001628	8.8E-05	9E-05	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	8.4E-05 (J)
9/23/2021	<0.0005
2/3/2022	<0.0005
8/31/2022	<0.0005
Mean	0.000396
Std. Dev.	0.000208
Upper Lim.	0.0005
Lower Lim.	8.4E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-1	GWC-11	GWC-14	GWC-20	GWC-22
8/30/2016		<0.001				
8/31/2016			0.0002 (J)			8E-05 (J)
9/1/2016	0.0002 (J)			0.0001 (J)	<0.001	
10/25/2016		<0.001		0.0002 (J)	<0.001	
10/26/2016	<0.001		0.0001 (J)			<0.001
1/4/2017		0.0001 (J)	0.0001 (J)		<0.001	0.0001 (J)
1/5/2017				0.0002 (J)		
1/6/2017	9E-05 (J)					
4/4/2017	9E-05 (J)	7E-05 (J)		0.0002 (J)	<0.001	
4/6/2017			0.0002 (J)			0.0001 (J)
7/11/2017			<0.001	0.0002 (J)	<0.001	<0.001
7/12/2017	<0.001	<0.001				
10/2/2017				<0.001	<0.001	
10/3/2017		<0.001	0.0003 (J)			
10/4/2017	<0.001					0.0002 (J)
1/9/2018				<0.001		
1/10/2018		<0.001			<0.001	
1/11/2018	0.0002 (J)		0.0006 (J)			0.0002 (J)
7/9/2018				0.00017 (J)	<0.001	
7/10/2018		<0.001				
7/11/2018	<0.001		0.0004 (J)			0.00023 (J)
8/27/2019	<0.001	<0.001	0.00044 (J)	<0.001		<0.001
8/28/2019					<0.001	
10/8/2019			0.00043 (J)	<0.001		
10/9/2019	<0.001	<0.001			<0.001	0.00012 (J)
4/7/2020	<0.001	<0.001	0.00051 (J)	<0.001		0.00054 (J)
4/8/2020					<0.001	
8/18/2020			0.00058 (J)	<0.001	<0.001	0.00024 (J)
8/19/2020	<0.001	<0.001				
9/28/2020		<0.001				
9/29/2020			0.00077 (J)	0.00012 (J)		
9/30/2020					<0.001	0.00024 (J)
10/1/2020	<0.001					
3/10/2021	<0.001	<0.001	0.0009			<0.001
3/12/2021					0.00018 (J)	
3/16/2021				<0.001		
9/21/2021	<0.001		0.00036 (J)			<0.001
9/22/2021				<0.001	0.00013 (J)	
9/23/2021		<0.001				
2/1/2022					0.0002 (J)	
2/2/2022	<0.001			<0.001		
2/3/2022		<0.001	0.00019 (J)			<0.001
8/30/2022	<0.001			<0.001	<0.001	
8/31/2022			0.000431 (J)			<0.001
9/1/2022		<0.001				
Mean	0.0007988	0.0008924	0.0004418	0.0006582	0.0008535	0.0005324
Std. Dev.	0.0003748	0.0003039	0.0002647	0.0004219	0.0003264	0.0004155
Upper Lim.	0.001	0.001	0.0006077	0.001	0.001	0.001
Lower Lim.	0.0002	0.0001	0.000276	0.00017	0.0002	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-25D
3/11/2021	<0.001	0.00019 (J)
9/22/2021	0.00027 (J)	
9/23/2021		<0.001
2/3/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
Mean	0.0008175	0.0007975
Std. Dev.	0.000365	0.000405
Upper Lim.	0.001	0.001
Lower Lim.	0.00027	0.00019

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.01		
1/18/2016	0.014	<0.01	0.0011 (J)			<0.01
1/19/2016					<0.01	
7/26/2016					0.0005 (J)	
7/27/2016		0.0006 (J)		0.0016 (J)		0.0014 (J)
7/28/2016			0.001 (J)			
7/29/2016	0.0077 (J)					
8/30/2016		<0.01	0.0013 (J)	0.0015 (J)		
8/31/2016					0.001 (J)	0.0012 (J)
9/1/2016	0.015					
10/25/2016				0.0018 (J)		
10/26/2016	0.0106	<0.01	0.0014 (J)		<0.01	0.0012 (J)
1/3/2017		0.001 (J)				
1/4/2017				0.0021 (J)	<0.01	0.0012 (J)
1/5/2017			0.002 (J)			
1/6/2017	0.0098 (J)					
4/4/2017	0.0101			0.002 (J)		
4/5/2017						0.0013 (J)
4/6/2017		0.0013 (J)	0.0034 (J)		0.0007 (J)	
7/10/2017						0.0014 (J)
7/11/2017					0.0006 (J)	
7/12/2017	0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)		
10/3/2017		0.0012 (J)	0.0022 (J)	0.0014 (J)	0.0007 (J)	
10/4/2017	0.0097 (J)					0.0011 (J)
1/9/2018			0.0019 (J)			
1/10/2018		0.0016 (J)		0.0017 (J)		
1/11/2018	0.0109				0.0098 (J)	0.001 (J)
7/10/2018		0.0055 (J)	0.0023 (J)	0.0021 (J)		
7/11/2018	0.0055 (J)				<0.01	<0.01
1/16/2019	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)		
1/17/2019					<0.01	0.0028 (J)
3/25/2019	0.002 (J)					
3/26/2019		0.072	0.017 (J)	0.0018 (J)		
3/27/2019					<0.01	<0.01
8/27/2019	0.0027 (J)		0.0097 (J)	0.0062 (J)	0.00092 (J)	0.00085 (J)
8/28/2019		0.0071 (J)				
10/8/2019					0.00091 (J)	
10/9/2019	0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)		0.00081 (J)
4/7/2020	0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)	0.00094 (J)	0.00082 (J)
8/17/2020						0.001 (J)
8/18/2020					0.0015 (J)	
8/19/2020	0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)		
9/28/2020				0.0024 (J)		
9/29/2020					0.0011 (J)	0.00085 (J)
9/30/2020		0.0018 (J)	0.0045 (J)			
10/1/2020	0.002 (J)					
3/10/2021	0.003 (J)	0.001 (J)	0.006	0.0023 (J)	0.0013 (J)	0.00091 (J)
9/21/2021	0.0018 (J)	<0.01	0.0035 (J)		<0.01	<0.01
9/23/2021				0.0023 (J)		
2/2/2022	0.003 (J)		0.0033 (J)			
2/3/2022		0.0014 (J)		0.0019 (J)	0.0011 (J)	0.0018 (J)
8/30/2022	<0.01	<0.01	0.00356 (J)			<0.01

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.01	
9/1/2022				<0.01		
Mean	0.006514	0.008143	0.005174	0.002929	0.004813	0.003316
Std. Dev.	0.004437	0.01523	0.005004	0.002547	0.004589	0.003853
Upper Lim.	0.0101	0.003715	0.006407	0.0024	0.01	0.0028
Lower Lim.	0.0022	0.001047	0.002325	0.0017	0.00091	0.00091

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.0012 (J)	<0.01	<0.01		<0.01
1/18/2016	<0.01				<0.01	
4/26/2016		<0.01		<0.01		
7/26/2016	<0.01					
7/27/2016		0.0008 (J)	0.0007 (J)			0.0008 (J)
7/28/2016				0.0006 (J)		
7/29/2016					0.0009 (J)	
8/31/2016	0.0011 (J)					<0.01
9/1/2016		0.0015 (J)	0.0011 (J)	0.0011 (J)	0.0011 (J)	
10/25/2016		<0.01	<0.01	<0.01		
10/26/2016	<0.01				<0.01	0.001 (J)
1/4/2017				<0.01		
1/5/2017	<0.01	0.001 (J)	<0.01		0.0012 (J)	<0.01
4/3/2017			0.0015 (J)			
4/4/2017		0.001 (J)				0.0008 (J)
4/5/2017				0.001 (J)	0.0015 (J)	
4/6/2017	0.0011 (J)					
7/11/2017		0.0008 (J)	0.0013 (J)			
7/12/2017	0.0007 (J)			0.0011 (J)		
7/13/2017					0.0012 (J)	0.0006 (J)
10/2/2017		0.0009 (J)	0.0013 (J)			
10/3/2017				0.0009 (J)		<0.01
10/4/2017	0.0008 (J)				0.0055 (J)	
1/9/2018		0.0006 (J)	0.0012 (J)			
1/10/2018	0.0007 (J)			0.0007 (J)		<0.01
1/11/2018					0.0009 (J)	
7/9/2018		<0.01				
7/10/2018			<0.01	<0.01		<0.01
7/11/2018	0.0019 (J)				<0.01	
1/16/2019	<0.01	<0.01			<0.01	
1/17/2019			<0.01	0.01 (J)		
1/21/2019						<0.01
3/26/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
7/30/2019						0.00065 (J)
8/27/2019	<0.01	0.001 (J)	0.0016 (J)			<0.01
8/28/2019				0.0011 (J)	0.0013 (J)	
10/8/2019	<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)		
10/9/2019					0.00081 (J)	0.00049 (J)
4/7/2020		0.00074 (J)	0.0014 (J)	<0.01		
4/8/2020	0.00058 (J)				0.00073 (J)	0.00069 (J)
8/17/2020	0.00077 (J)					
8/18/2020		0.00059 (J)	0.0018 (J)	0.0012 (J)	0.0011 (J)	<0.01
9/28/2020	0.00062 (J)					
9/29/2020		<0.01				<0.01
9/30/2020			0.0016 (J)	0.00098 (J)	0.00096 (J)	
3/11/2021					0.0009 (J)	
3/12/2021			0.0031 (J)			
3/15/2021	<0.01					0.0011 (J)
3/16/2021		<0.01		0.0012 (J)		
9/21/2021	<0.01					
9/22/2021		<0.01		0.0018 (J)	<0.01	<0.01
9/23/2021			0.0013 (J)			

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				<0.01	0.0014 (J)	
2/2/2022		<0.01				<0.01
2/3/2022	<0.01		0.0016 (J)			
8/30/2022		<0.01				
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022				<0.01		<0.01
Mean	0.006108	0.00503	0.004343	0.005121	0.004262	0.006482
Std. Dev.	0.004612	0.004648	0.004122	0.004563	0.004269	0.004596
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.00077	0.0008	0.0013	0.001	0.00096	0.0008

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
1/17/2016	<0.01	<0.01				
1/18/2016			<0.01	<0.01		
7/28/2016	0.0007 (J)	0.0005 (J)		0.0011 (J)		
7/29/2016			0.0007 (J)			
8/31/2016			<0.01	0.0024 (J)		
9/1/2016	<0.01	<0.01				
10/25/2016	<0.01	<0.01				
10/26/2016			<0.01			
10/27/2016				<0.01		
1/4/2017	<0.01	<0.01	<0.01			
1/6/2017				<0.01		
4/4/2017	0.0011 (J)	0.0008 (J)				
4/6/2017			0.0006 (J)	0.0019 (J)		
7/11/2017	0.0009 (J)		0.0005 (J)			
7/12/2017				0.0011 (J)		
7/13/2017		0.0006 (J)				
10/2/2017	0.0009 (J)					
10/3/2017		0.0005 (J)				
10/4/2017			0.0006 (J)	0.0011 (J)		
1/9/2018		0.0007 (J)				
1/10/2018	0.0008 (J)					
1/11/2018			<0.01	0.001 (J)		
7/9/2018	<0.01					
7/10/2018		<0.01				
7/11/2018			<0.01	<0.01		
1/17/2019		0.01				
1/18/2019			<0.01	<0.01		
1/21/2019	<0.01					
3/25/2019	<0.01					
3/26/2019		<0.01				
3/27/2019			<0.01	<0.01		
8/27/2019			0.00057 (J)			
8/28/2019	0.00089 (J)	0.00087 (J)		0.00089 (J)		
10/8/2019		0.00065 (J)				
10/9/2019	0.0011 (J)		0.00072 (J)	0.0009 (J)		
4/7/2020		<0.01	0.00049 (J)			
4/8/2020	0.001 (J)			0.0015 (J)		
8/18/2020	0.0011 (J)	0.0012 (J)	0.00056 (J)			
8/19/2020				0.0013 (J)		
9/30/2020	0.0013 (J)	0.00067 (J)	0.00064 (J)			
10/1/2020				0.0012 (J)		
3/10/2021			<0.01	0.0011 (J)		
3/11/2021					0.00069 (J)	0.0016 (J)
3/12/2021	0.0014 (J)					
3/16/2021		0.00075 (J)				
9/21/2021			<0.01			
9/22/2021	0.0013 (J)	<0.01		<0.01	<0.01	
9/23/2021						<0.01
2/1/2022	0.0036 (J)	<0.01			<0.01	
2/2/2022				0.0012 (J)		
2/3/2022			<0.01			<0.01
8/30/2022	<0.01	<0.01				

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
8/31/2022			<0.01			<0.01
9/1/2022				<0.01	<0.01	
Mean	0.004576	0.005583	0.00597	0.004604	0.007672	0.0079
Std. Dev.	0.004398	0.004749	0.004768	0.00435	0.004655	0.0042
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0009	0.00067	0.0006	0.0011	0.00069	0.0016

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12	GWC-14
8/30/2016		<0.001	<0.001			
8/31/2016				<0.001	0.0018 (J)	
9/1/2016	0.0024 (J)					<0.001
10/25/2016						<0.001
10/26/2016	0.0011 (J)	<0.001	<0.001	<0.001	0.0016 (J)	
1/3/2017		<0.001				
1/4/2017				<0.001	0.0014 (J)	
1/5/2017			<0.001			<0.001
1/6/2017	0.001 (J)					
4/4/2017	0.001 (J)					<0.001
4/5/2017					0.0013 (J)	
4/6/2017		<0.001	<0.001	<0.001		
7/10/2017					0.0013 (J)	
7/11/2017				<0.001		0.0003 (J)
7/12/2017	0.0008 (J)	<0.001	<0.001			
10/2/2017						<0.001
10/3/2017		<0.001	<0.001	<0.001		
10/4/2017	0.001 (J)				0.0011 (J)	
1/9/2018			<0.001			<0.001
1/10/2018		0.0004 (J)				
1/11/2018	0.0008 (J)			0.0003 (J)	0.0011 (J)	
7/9/2018						<0.001
7/10/2018		0.002 (J)	<0.001			
7/11/2018	<0.001			<0.001	0.00096 (J)	
8/27/2019	0.0011 (J)		0.00038 (J)	<0.001	0.0009 (J)	<0.001
8/28/2019		0.0024 (J)				
10/8/2019				<0.001		<0.001
10/9/2019	0.0015 (J)	0.0037 (J)	<0.001		0.00094 (J)	
4/7/2020	0.0009 (J)	0.00053 (J)	<0.001	<0.001	0.00077 (J)	<0.001
8/17/2020					0.0006 (J)	
8/18/2020				0.0004 (J)		<0.001
8/19/2020	0.00072 (J)	<0.001	<0.001			
9/29/2020				0.00055 (J)	0.00057 (J)	<0.001
9/30/2020		0.00056 (J)	<0.001			
10/1/2020	0.0005 (J)					
3/10/2021	0.00069 (J)	0.0057	<0.001	0.00082 (J)	0.00071 (J)	
3/16/2021						<0.001
9/21/2021	<0.001	0.019	0.0049 (J)	<0.001	0.00065 (J)	
9/22/2021						<0.001
2/2/2022	0.0027 (J)		0.07			<0.001
2/3/2022		0.019		<0.001	0.00072 (J)	
8/30/2022	0.00198	0.00401	0.0476		0.000786 (J)	<0.001
8/31/2022				0.000646 (J)		
Mean	0.001188	0.003782	0.007993	0.0008656	0.001012	0.0009588
Std. Dev.	0.0006122	0.005909	0.01955	0.0002376	0.0003624	0.0001698
Upper Lim.	0.001418	0.00401	0.0049	0.001	0.001239	0.001
Lower Lim.	0.0008127	0.00056	0.00038	0.000646	0.000785	0.0003

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/6/2022 10:03 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-22	GWC-9
8/31/2016		<0.001	0.001 (J)	0.0021 (J)
9/1/2016	0.0046 (J)			
10/26/2016	0.0046 (J)	0.0011 (J)	0.0009 (J)	
10/27/2016				0.0017 (J)
1/4/2017			0.0007 (J)	
1/5/2017	0.0062 (J)	<0.001		
1/6/2017				0.0017 (J)
4/4/2017		<0.001		
4/5/2017	0.007 (J)			
4/6/2017			<0.001	0.0017 (J)
7/11/2017			<0.001	
7/12/2017				0.0016 (J)
7/13/2017	0.0077 (J)	0.0003 (J)		
10/3/2017		0.0003 (J)		
10/4/2017	0.0073 (J)		0.0007 (J)	0.0015 (J)
1/10/2018		<0.001		
1/11/2018	0.0061 (J)		<0.001	0.0017 (J)
7/10/2018		<0.001		
7/11/2018	0.0064 (J)		<0.001	0.0017 (J)
7/30/2019		0.00032 (J)		
8/27/2019		<0.001	0.00077 (J)	
8/28/2019	0.0023 (J)			0.00099 (J)
10/9/2019	0.0024 (J)	<0.001	<0.001	0.00099 (J)
4/7/2020			0.00037 (J)	
4/8/2020	0.0024 (J)	0.00036 (J)		0.001 (J)
8/18/2020	0.0025 (J)	<0.001	<0.001	
8/19/2020				0.0011 (J)
9/29/2020		<0.001		
9/30/2020	0.0018 (J)		<0.001	
10/1/2020				0.00099 (J)
3/10/2021			<0.001	0.00096 (J)
3/11/2021	0.0019 (J)			
3/15/2021		<0.001		
9/21/2021			<0.001	
9/22/2021	0.0028 (J)	<0.001		0.00082 (J)
2/1/2022	0.0036 (J)			
2/2/2022		<0.001		0.00096 (J)
2/3/2022			<0.001	
8/31/2022	0.00358		<0.001	
9/1/2022		<0.001		0.00093 (J)
Mean	0.004305	0.0008544	0.0009082	0.00132
Std. Dev.	0.002077	0.0002951	0.0001762	0.0004016
Upper Lim.	0.005438	0.0011	0.001	0.0017
Lower Lim.	0.002894	0.00036	0.00077	0.00096

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/30/2016		1.81	2.19	2.36		
8/31/2016					2.2	2.61
9/1/2016	5.27					
10/25/2016				2.02		
10/26/2016	2.32	2.03	2.67		1.96	3.28
1/3/2017		1.85				
1/4/2017				2.1	1.88	3.77
1/5/2017			3.74			
1/6/2017	5.1					
4/4/2017	5			1.39 (U)		
4/5/2017						3.25
4/6/2017		2.66	2.36			
4/8/2017					0.893 (U)	
7/10/2017						1.55
7/11/2017					1.89	
7/12/2017	2.69	2.1	1.54	1.63		
10/3/2017		2	3.63	1.84	4.73	
10/4/2017	4.82					1.68
1/9/2018			2.07			
1/10/2018		2.55		2.11		
1/11/2018	4.48				7.49	2.94
7/10/2018		3.14	1.63	1.29		
7/11/2018	2.69				5.88	2.03
8/27/2019	2.97		4.63	2.41	5.09	2.09
8/28/2019		3.74				
10/8/2019					6.39	
10/9/2019	2.17	7.23	5.45	3.13		3.11
4/7/2020	2.44	3.57	6.25	1.97	7.87	2.18
8/17/2020						2.25
8/18/2020					6.76	
8/19/2020	3.1	2.49	4.53	1.91		
9/28/2020				1.29		
9/29/2020					8.3	0.845 (U)
9/30/2020		4.45	6.39			
10/1/2020	2.6					
3/10/2021	2.11	4.67	4.61	1.7	7.55	1.77
9/21/2021	2.45	3.1	5.07		4.35	1.24 (U)
9/23/2021				1.48		
2/2/2022	3.17		4.79			
2/3/2022		2.65		1	4.04	0.957
8/30/2022	5.57	3.36	3.2			3.37
8/31/2022					6.34	
9/1/2022				0.911 (U)		
Mean	3.468	3.141	3.809	1.797	4.918	2.29
Std. Dev.	1.248	1.362	1.562	0.5585	2.425	0.8921
Upper Lim.	5	3.835	4.788	2.147	6.438	2.849
Lower Lim.	2.44	2.314	2.83	1.447	3.399	1.731

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/31/2016	1.23					1.01
9/1/2016		1.28	2.45	1.99	5.19	
10/25/2016		1.54	1.04 (U)	1.98		
10/26/2016	0.641 (U)				4.25	0.725 (U)
1/4/2017				1.72		
1/5/2017	0.657 (U)	0.715 (U)	1.36		3.55	0.735 (U)
4/3/2017			0.697 (U)			
4/4/2017		0.699 (U)				0.87 (U)
4/5/2017				1.72	4.39	
4/6/2017	0.439 (U)					
7/11/2017		1.12	0.754 (U)			
7/12/2017	0.414 (U)			1.11		
7/13/2017					2.44	0.42 (U)
10/2/2017		0.855 (U)	1.52			
10/3/2017				2.13		0.995 (U)
10/4/2017	1.33				4.95	
1/9/2018		0.861 (U)	1.17			
1/10/2018	1.21			1.74		0.698 (U)
1/11/2018					3.53	
7/9/2018		0.693 (U)				
7/10/2018			1.26	1.97		1.01
7/11/2018	1.4 (U)				3.13	
8/27/2019	1.27	1.32	1.75			0.787 (U)
8/28/2019				2.04	2.01	
10/8/2019	1.62	1.41	1.52	1.89		
10/9/2019					2.91	0.22 (U)
4/7/2020		1.41	1.82	4.17		
4/8/2020	1.08 (U)				2.79	1.13 (U)
8/17/2020	1.42					
8/18/2020		0.731 (U)	1.84	4.24	3.11	1.09 (U)
9/28/2020	1.28					
9/29/2020		0.331 (U)				1 (U)
9/30/2020			2.14	2.47	3.09	
3/11/2021					2.77	
3/12/2021			0.607 (U)			
3/15/2021	0.769 (U)					0.804 (U)
3/16/2021		0.0831 (U)		2.15		
9/21/2021	2.09					
9/22/2021		1.94 (U)		3.06	2.36	0.769 (U)
9/23/2021			1.64			
2/1/2022				2.73	2.51	
2/2/2022		0.881 (U)				0.854 (U)
2/3/2022	1.18		0.58 (U)			
8/30/2022		2.62				
8/31/2022	1.9		2.88		2.72	
9/1/2022				1.64 (U)		2.09
Mean	1.172	1.088	1.472	2.279	3.276	0.8945
Std. Dev.	0.4722	0.6063	0.6494	0.847	0.92	0.3858
Upper Lim.	1.468	1.467	1.879	2.705	3.853	1.09
Lower Lim.	0.8765	0.7077	1.065	1.753	2.7	0.725

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
8/31/2016			5.96	3.3		
9/1/2016	2.21	1.05				
10/25/2016	1.51 (U)	1.2				
10/26/2016			7.42			
10/27/2016				2.7		
1/4/2017	2.56	2.11	6.07			
1/6/2017				4.45		
4/4/2017	1.77	2.02				
4/6/2017			3	3.1		
7/11/2017	2.76		4.2			
7/12/2017				2.73		
7/13/2017		0.576 (U)				
10/2/2017	4.15					
10/3/2017		0.86				
10/4/2017			7.16	8.16		
1/9/2018		1.43				
1/10/2018	1.96					
1/11/2018			3.57	2.31		
7/9/2018	1.11					
7/10/2018		1.63				
7/11/2018			7.57	3.31		
8/27/2019			7.04			
8/28/2019	1.13 (U)	1.4 (U)		1.91		
10/8/2019		1.88				
10/9/2019	2.28		3.68	3.09		
4/7/2020		1.8	7.66			
4/8/2020	4.19			1.92		
8/18/2020	6.86	3.27	7.65			
8/19/2020				2.34		
9/30/2020	5.62	3.83	2.79			
10/1/2020				3.3		
3/10/2021			2.53	2.08		
3/11/2021					1.55	1.29
3/12/2021	5.17					
3/16/2021		2.88				
9/21/2021			1.25 (U)			
9/22/2021	6.84	0.959 (U)		2.08	1.4	0.982 (U)
2/1/2022	5.11	2.51				0.36 (U)
2/2/2022				0.967 (U)		
2/3/2022			1.4		1.21	
8/30/2022	4.95	2.56				
8/31/2022			3.07		1.79	
9/1/2022				2.35		3.54
Mean	3.54	1.88	4.825	2.947	1.488	1.543
Std. Dev.	1.945	0.8982	2.333	1.554	0.245	1.386
Upper Lim.	4.759	2.443	6.161	3.524	2.044	4.691
Lower Lim.	2.321	1.317	3.134	2.026	0.9313	-1.605

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	0.353 (U)
9/23/2021	1.15
2/3/2022	0.278 (U)
8/31/2022	0.645 (U)
Mean	0.6065
Std. Dev.	0.3954
Upper Lim.	1.504
Lower Lim.	-0.2912

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
8/30/2016		0.04 (J)	0.09 (J)	0.22 (J)		
8/31/2016					0.7	<0.1
9/1/2016	<0.1					
10/25/2016				<0.1		
10/26/2016	0.05 (J)	0.05 (J)	0.24 (J)		0.91	0.55
1/3/2017		0.08 (J)				
1/4/2017				0.18 (J)	0.51	
1/5/2017			0.11 (J)			0.09 (J)
1/6/2017	0.08 (J)					
4/4/2017	<0.1			<0.1		
4/5/2017					0.71	
4/6/2017		0.006 (J)	0.3			<0.1
7/10/2017					0.88	
7/12/2017	0.38	0.05 (J)	0.15 (J)	0.04 (J)		<0.1
10/3/2017		0.11 (J)	0.11 (J)	<0.1		
10/4/2017	<0.1				0.37	<0.1
1/9/2018			<0.1			
1/10/2018		<0.1		<0.1		<0.1
1/11/2018	<0.1				1.4	
7/10/2018		0.2 (J)	<0.1	<0.1		
7/11/2018	<0.1				0.62	<0.1
1/16/2019	1.2	<0.1	0.053 (J)	<0.1		<0.1
1/17/2019					1.2	
3/25/2019	0.064 (J)					
3/26/2019		<0.1	0.046 (J)	0.051 (J)		0.052 (J)
3/27/2019					0.036 (J)	
8/27/2019	0.031 (J)		0.13 (J)	<0.1	0.3	<0.1
8/28/2019		0.097 (J)				
10/8/2019						<0.1
10/9/2019	<0.1	<0.1	<0.1	<0.1	<0.1	
4/7/2020	<0.1	<0.1	<0.1	<0.1	0.27 (J)	
4/8/2020						<0.1
8/17/2020					0.19	<0.1
8/19/2020	0.17	<0.1	<0.1	<0.1		
9/28/2020				<0.1		<0.1
9/29/2020					0.16	
9/30/2020		<0.1	<0.1			
10/1/2020	<0.1					
3/10/2021	<0.1	<0.1	<0.1	<0.1	0.14	
3/15/2021						<0.1
9/21/2021	<0.1	<0.1	<0.1		0.31	<0.1
9/23/2021				<0.1		
2/2/2022	<0.1		<0.1			
2/3/2022		0.081 (J)		<0.1	0.36	<0.1
8/30/2022	<0.1	0.0428 (J)	<0.1		0.273	
8/31/2022						0.051 (J)
9/1/2022				<0.1		
Mean	0.1671	0.0872	0.1173	0.1048	0.4968	0.1181
Std. Dev.	0.26	0.03977	0.05903	0.03827	0.3833	0.1057
Upper Lim.	0.17	0.11	0.13	0.18	0.7212	0.55
Lower Lim.	0.08	0.05	0.09	0.051	0.2723	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2016					0.07 (J)	
9/1/2016	0.25 (J)	<0.1	0.55	0.68		<0.1
10/25/2016	0.43	0.5	0.36			<0.1
10/26/2016				0.68	0.62	
1/4/2017			0.1 (J)			0.04 (J)
1/5/2017	0.21 (J)	0.22 (J)		0.73	0.17 (J)	
4/3/2017		<0.1				
4/4/2017	0.45				0.08 (J)	0.02 (J)
4/5/2017			0.2 (J)	1.6		
7/11/2017	0.41	0.06 (J)				0.14 (J)
7/12/2017			0.04 (J)			
7/13/2017				1.7	0.06 (J)	
10/2/2017	<0.1	<0.1				<0.1
10/3/2017			0.86		0.06 (J)	
10/4/2017				1.8		
1/9/2018	<0.1	<0.1				
1/10/2018			<0.1		<0.1	<0.1
1/11/2018				1.5		
7/9/2018	<0.1					<0.1
7/10/2018		0.15 (J)	<0.1		<0.1	
7/11/2018				1.8		
1/16/2019	<0.1			1.4		
1/17/2019		<0.1	<0.1			
1/21/2019					<0.1	<0.1
3/25/2019						0.043 (J)
3/26/2019	0.13 (J)	0.13 (J)	0.11 (J)	0.89		
7/30/2019					0.083 (J)	
8/27/2019	<0.1	<0.1			<0.1	
8/28/2019			<0.1	0.61		<0.1
10/8/2019	<0.1	<0.1	<0.1			
10/9/2019				<0.1	<0.1	<0.1
4/7/2020	<0.1	<0.1	<0.1			
4/8/2020				0.55	<0.1	<0.1
8/18/2020	<0.1	<0.1	<0.1	0.51	<0.1	<0.1
9/29/2020	<0.1				<0.1	
9/30/2020		<0.1	<0.1	0.15		<0.1
3/11/2021				0.42		
3/12/2021		<0.1				<0.1
3/15/2021					<0.1	
3/16/2021	<0.1		<0.1			
9/22/2021	<0.1		<0.1	0.79	<0.1	<0.1
9/23/2021		<0.1				
2/1/2022			<0.1	0.68		<0.1
2/2/2022	<0.1				<0.1	
2/3/2022		<0.1				
8/30/2022	<0.1					<0.1
8/31/2022		<0.1		0.442		
9/1/2022			0.0374 (J)		<0.1	
Mean	0.1674	0.1295	0.1767	0.8964	0.1233	0.09174
Std. Dev.	0.124	0.09513	0.2046	0.5551	0.1224	0.02744
Upper Lim.	0.25	0.13	0.2	1.162	0.17	0.14
Lower Lim.	0.1	0.06	0.1	0.5173	0.08	0.043

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-23D	MW-25D
8/31/2016		0.04 (J)	0.55		
9/1/2016	<0.1				
10/25/2016	<0.1				
10/26/2016		0.12 (J)			
10/27/2016			0.26 (J)		
1/4/2017	<0.1	0.06 (J)			
1/6/2017			0.25 (J)		
4/4/2017	<0.1				
4/6/2017		<0.1	0.16 (J)		
7/11/2017		0.03 (J)			
7/12/2017			0.2 (J)		
7/13/2017	<0.1				
10/3/2017	<0.1				
10/4/2017		0.12 (J)	0.22 (J)		
1/9/2018	<0.1				
1/11/2018		<0.1	0.98		
7/10/2018	<0.1				
7/11/2018		<0.1	0.14 (J)		
1/17/2019	<0.1				
1/18/2019		<0.1	0.24 (J)		
3/26/2019	0.071 (J)				
3/27/2019		<0.1	0.13 (J)		
8/27/2019		0.1			
8/28/2019	<0.1		0.088 (J)		
10/8/2019	<0.1				
10/9/2019		<0.1	0.068 (J)		
4/7/2020	<0.1	<0.1			
4/8/2020			0.058 (J)		
8/18/2020	<0.1	<0.1			
8/19/2020			0.092 (J)		
9/30/2020	<0.1	<0.1			
10/1/2020			<0.1		
1/20/2021					0.11
1/21/2021				<0.1	
3/10/2021		<0.1	0.066 (J)		
3/11/2021				<0.1	0.12
3/16/2021	<0.1				
9/21/2021		<0.1			
9/22/2021	<0.1		0.13	<0.1	
9/23/2021					0.096 (J)
2/1/2022	<0.1				
2/2/2022			<0.1		
2/3/2022		<0.1		<0.1	0.077 (J)
8/30/2022	<0.1				
8/31/2022		<0.1		0.0791 (J)	0.187
9/1/2022			0.0783 (J)		
Mean	0.09847	0.09316	0.2058	0.09582	0.118
Std. Dev.	0.006653	0.02358	0.2196	0.009347	0.04182
Upper Lim.	0.1	0.12	0.2313	0.1	0.1881
Lower Lim.	0.071	0.1	0.09769	0.0791	0.04793

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.002		
1/18/2016	0.0055 (J)	<0.002	<0.002			0.0034 (J)
1/19/2016					<0.002	
7/26/2016					0.0001 (J)	
7/27/2016		<0.002		<0.002		0.0001 (J)
7/28/2016			<0.002			
7/29/2016	0.003 (J)					
8/30/2016		<0.002	<0.002	<0.002		
8/31/2016					0.0002 (J)	0.0001 (J)
9/1/2016	0.0166 (O)					
10/25/2016				<0.002		
10/26/2016	0.0057	0.0002 (J)	<0.002		0.0001 (J)	0.0001 (J)
1/3/2017		0.0001 (J)				
1/4/2017				<0.002	0.0002 (J)	<0.002
1/5/2017			0.0003 (J)			
1/6/2017	0.0053					
4/4/2017	0.0092			<0.002		
4/5/2017						0.0003 (J)
4/6/2017		0.0003 (J)	0.0002 (J)		0.0003 (J)	
7/10/2017						0.0003 (J)
7/11/2017					0.0002 (J)	
7/12/2017	0.006	0.0002 (J)	0.0002 (J)	<0.002		
10/3/2017		0.0002 (J)	0.0001 (J)	<0.002	0.0003 (J)	
10/4/2017	0.0057					0.0001 (J)
1/9/2018			0.0003 (J)			
1/10/2018		0.0003 (J)		0.0001 (J)		
1/11/2018	0.0085				0.0003 (J)	0.0002 (J)
7/10/2018		<0.002	<0.002	<0.002		
7/11/2018	0.0029 (J)				<0.002	<0.002
1/16/2019	<0.002	<0.002	<0.002	<0.002		
1/17/2019					0.00028 (J)	<0.002
3/25/2019	<0.002					
3/26/2019		<0.002	<0.002	<0.002		
3/27/2019					0.00029 (J)	<0.002
8/27/2019	0.001 (J)		0.0011 (J)	<0.002	0.00021 (J)	<0.002
8/28/2019		0.0011 (J)				
10/8/2019					0.00028 (J)	
10/9/2019	0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002		6.6E-05 (J)
4/7/2020	0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)	0.00036 (J)	8.1E-05 (J)
8/17/2020						4.9E-05 (J)
8/18/2020					0.00035 (J)	
8/19/2020	0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002		
9/28/2020				4.3E-05 (J)		
9/29/2020					0.00032 (J)	3.7E-05 (J)
9/30/2020		0.0012 (J)	8E-05 (J)			
10/1/2020	0.00026 (J)					
3/10/2021	0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)	0.00042 (J)	6.8E-05 (J)
9/21/2021	<0.002	<0.002	<0.002		<0.002	<0.002
9/23/2021				<0.002		
2/2/2022	<0.002		<0.002			
2/3/2022		<0.002		<0.002	<0.002	<0.002
8/30/2022	<0.002	<0.002	<0.002			<0.002

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022						
9/1/2022				<0.002	<0.002	
Mean	0.003249	0.001221	0.001118	0.001636	0.0006767	0.0009953
Std. Dev.	0.002759	0.0008915	0.0008882	0.0007683	0.0007619	0.001073
Upper Lim.	0.004315	0.002	0.002	0.002	0.00042	0.002
Lower Lim.	0.001028	0.0002	0.0002	0.00012	0.00021	8.1E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		<0.002	<0.002	<0.002		<0.002
1/18/2016	<0.002				<0.002	
4/26/2016		<0.002		<0.002		
7/26/2016	<0.002					
7/27/2016		<0.002	<0.002			<0.002
7/28/2016				<0.002		
7/29/2016					<0.002	
8/31/2016	<0.002					<0.002
9/1/2016		<0.002	<0.002	<0.002	<0.002	
10/25/2016		<0.002	<0.002	0.0002 (J)		
10/26/2016	<0.002				<0.002	<0.002
1/4/2017				0.0001 (J)		
1/5/2017	0.0002 (J)	<0.002	<0.002		<0.002	<0.002
4/3/2017			0.0003 (J)			
4/4/2017		0.0001 (J)				0.0002 (J)
4/5/2017				0.0002 (J)	0.0009 (J)	
4/6/2017	0.0005 (J)					
7/11/2017		8E-05 (J)	0.0001 (J)			
7/12/2017	0.0005 (J)			0.0001 (J)		
7/13/2017					<0.002	0.0003 (J)
10/2/2017		0.0001 (J)	0.0002 (J)			
10/3/2017				0.0001 (J)		<0.002
10/4/2017	0.0007 (J)				0.0001 (J)	
1/9/2018		<0.002	0.0002 (J)			
1/10/2018	0.0009 (J)			0.0002 (J)		8E-05 (J)
1/11/2018					0.0001 (J)	
7/9/2018		<0.002				
7/10/2018			<0.002	<0.002		<0.002
7/11/2018	0.0015 (J)				<0.002	
1/16/2019	0.00061 (J)	<0.002			<0.002	
1/17/2019			<0.002	<0.002		
1/21/2019						<0.002
3/26/2019	<0.002	<0.002	<0.002	<0.002	<0.002	
7/30/2019						0.0002 (J)
8/27/2019	0.0001 (J)	0.00051 (J)	0.00033 (J)			<0.002
8/28/2019				0.0001 (J)	<0.002	
10/8/2019	0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)		
10/9/2019					0.00015 (J)	6.4E-05 (J)
4/7/2020		<0.002	8.6E-05 (J)	0.00023 (J)		
4/8/2020	0.00017 (J)				8.4E-05 (J)	<0.002
8/17/2020	7.6E-05 (J)					
8/18/2020		<0.002	9E-05 (J)	0.00017 (J)	0.00014 (J)	<0.002
9/28/2020	6.4E-05 (J)					
9/29/2020		<0.002				<0.002
9/30/2020			4.7E-05 (J)	9.1E-05 (J)	6E-05 (J)	
3/11/2021					0.00019 (J)	
3/12/2021			5.3E-05 (J)			
3/15/2021	0.00013 (J)					4.1E-05 (J)
3/16/2021		<0.002		7.3E-05 (J)		
9/21/2021	<0.002					
9/22/2021		<0.002		<0.002	<0.002	<0.002
9/23/2021			<0.002			

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				<0.002	<0.002	
2/2/2022		<0.002				<0.002
2/3/2022	<0.002		<0.002			
8/30/2022		<0.002				
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022				<0.002		<0.002
Mean	0.001028	0.001672	0.00112	0.0009847	0.00132	0.001471
Std. Dev.	0.0008476	0.0007159	0.0009478	0.0009495	0.0009033	0.000859
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00013	0.00051	0.0001	0.0001	0.00014	0.0002

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	<0.002	<0.002				
1/18/2016			<0.002	<0.002		
7/28/2016	<0.002	<0.002		<0.002		
7/29/2016			0.0004 (J)			
8/31/2016			0.0003 (J)	0.0007 (J)		
9/1/2016	<0.002	<0.002				
10/25/2016	0.0001 (J)	<0.002				
10/26/2016			0.0003 (J)			
10/27/2016				<0.002		
1/4/2017	<0.002	<0.002	0.0003 (J)			
1/6/2017				<0.002		
4/4/2017	7E-05 (J)	9E-05 (J)				
4/6/2017			0.0003 (J)	0.0001 (J)		
7/11/2017	<0.002		0.0002 (J)			
7/12/2017				<0.002		
7/13/2017		7E-05 (J)				
10/2/2017	<0.002					
10/3/2017		0.0001 (J)				
10/4/2017			0.0008 (J)	9E-05 (J)		
1/9/2018		9E-05 (J)				
1/10/2018	0.0002 (J)					
1/11/2018			0.0009 (J)	0.0002 (J)		
7/9/2018	<0.002					
7/10/2018		<0.002				
7/11/2018			0.001 (J)	<0.002		
1/17/2019		<0.002				
1/18/2019			0.0012 (J)	<0.002		
1/21/2019	<0.002					
3/25/2019	<0.002					
3/26/2019		<0.002				
3/27/2019			0.00047 (J)	<0.002		
8/27/2019			0.003 (J)			
8/28/2019	6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)		
10/8/2019		0.00016 (J)				
10/9/2019	0.00018 (J)		0.00032 (J)	<0.002		
4/7/2020		<0.002	0.00067 (J)			
4/8/2020	<0.002			0.00021 (J)		
8/18/2020	<0.002	0.00027 (J)	0.00072 (J)			
8/19/2020				9.6E-05 (J)		
9/30/2020	<0.002	5.4E-05 (J)	0.00023 (J)			
10/1/2020				3.8E-05 (J)		
3/10/2021			0.00016 (J)	0.00012 (J)		
3/11/2021					5.7E-05 (J)	9.4E-05 (J)
3/12/2021	<0.002					
3/16/2021		<0.002				
9/21/2021			<0.002			
9/22/2021	<0.002	<0.002		<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				<0.002
2/2/2022				<0.002		
2/3/2022			<0.002		<0.002	
8/30/2022	<0.002	<0.002				
8/31/2022			<0.002		<0.002	

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
9/1/2022				<0.002		<0.002
Mean	0.001553	0.001286	0.0009176	0.00122	0.001514	0.001524
Std. Dev.	0.0008197	0.0009331	0.0008104	0.0009321	0.0009715	0.000953
Upper Lim.	0.002	0.002	0.0007979	0.002	0.002	0.002
Lower Lim.	0.0002	0.0001	0.0002964	0.0001	5.7E-05	9.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	9.5E-05 (J)
9/23/2021	<0.002
2/3/2022	<0.002
8/31/2022	<0.002
Mean	0.001524
Std. Dev.	0.0009525
Upper Lim.	0.002
Lower Lim.	9.5E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-12	GWC-13	GWC-17	GWC-9
8/30/2016		0.0042 (J)				
8/31/2016			<0.03	<0.03		<0.05 (O)
9/1/2016	0.0092 (J)				0.0066 (J)	
10/26/2016	0.0046 (J)	<0.03	<0.03	<0.03	0.0065 (J)	
10/27/2016						0.0023 (J)
1/3/2017		0.0024 (J)				
1/4/2017			<0.03			
1/5/2017				<0.03	0.0062 (J)	
1/6/2017	0.0042 (J)					0.0021 (J)
4/4/2017	0.0056 (J)					
4/5/2017			0.0012 (J)		0.007 (J)	
4/6/2017		0.0051 (J)		<0.03		0.0021 (J)
7/10/2017			<0.03			
7/12/2017	0.0035 (J)	0.0031 (J)		<0.03		0.0017 (J)
7/13/2017					0.0069 (J)	
10/3/2017		0.0027 (J)				
10/4/2017	0.0041 (J)		<0.03	<0.03	0.0082 (J)	0.0021 (J)
1/10/2018		0.0041 (J)		<0.03		
1/11/2018	0.0052 (J)		<0.03		0.0061 (J)	0.0022 (J)
7/10/2018		0.005 (J)				
7/11/2018	0.0039 (J)		0.00098 (J)	<0.03	0.0075 (J)	0.0019 (J)
8/27/2019	0.013 (J)		0.00094 (J)	<0.03		
8/28/2019		<0.03			0.0041 (J)	0.0018 (J)
10/8/2019				<0.03		
10/9/2019	0.013 (J)	<0.03	0.0011 (J)		0.0046 (J)	0.0018 (J)
4/7/2020	0.014 (J)	<0.03	0.00094 (J)			
4/8/2020				<0.03	0.0051 (J)	0.0018 (J)
8/17/2020			0.00091 (J)	<0.03		
8/18/2020					0.0065 (J)	
8/19/2020	0.014 (J)	<0.03				0.0019 (J)
9/28/2020				<0.03		
9/29/2020			0.00086 (J)			
9/30/2020		<0.03			0.0041 (J)	
10/1/2020	0.013 (J)					0.0019 (J)
3/10/2021	0.012 (J)	<0.03	0.00095 (J)			0.0018 (J)
3/11/2021					0.0036 (J)	
3/15/2021				<0.03		
9/21/2021	0.016 (J)	<0.03	0.00091 (J)	0.00087 (J)		
9/22/2021					0.005 (J)	0.0015 (J)
2/1/2022					0.0061 (J)	
2/2/2022	0.015 (J)					0.0017 (J)
2/3/2022		<0.03	0.001 (J)	0.00077 (J)		
8/30/2022	0.0175	<0.03	<0.03			
8/31/2022				<0.03	0.00688 (J)	
9/1/2022						<0.03
Mean	0.009871	0.01921	0.01293	0.02657	0.00594	0.003662
Std. Dev.	0.005	0.01331	0.01472	0.009691	0.001306	0.007026
Upper Lim.	0.015	0.03	0.03	0.03	0.006758	0.0022
Lower Lim.	0.0042	0.0041	0.00094	0.00087	0.005122	0.0017

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/31/2016	<0.0002					<0.0002
9/1/2016		<0.0002	<0.0002	<0.0002	<0.0002	
10/25/2016		<0.0002	<0.0002	<0.0002		
10/26/2016	<0.0002				<0.0002	<0.0002
1/4/2017				<0.0002		
1/5/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
4/3/2017			<0.0002			
4/4/2017		<0.0002				<0.0002
4/5/2017				<0.0002	<0.0002	
4/6/2017	0.00013 (J)					
7/11/2017		<0.0002	<0.0002			
7/12/2017	<0.0002			<0.0002		
7/13/2017					<0.0002	<0.0002
10/2/2017		<0.0002	<0.0002			
10/3/2017				<0.0002		<0.0002
10/4/2017	<0.0002				<0.0002	
1/9/2018		<0.0002	<0.0002			
1/10/2018	<0.0002			<0.0002		<0.0002
1/11/2018					<0.0002	
7/9/2018		<0.0002				
7/10/2018			<0.0002	<0.0002		<0.0002
7/11/2018	<0.0002				<0.0002	
1/16/2019	<0.0002	<0.0002			<0.0002	
1/17/2019			<0.0002	<0.0002		
1/21/2019						<0.0002
7/30/2019						<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002			<0.0002
8/28/2019				<0.0002	<0.0002	
8/17/2020	<0.0002					
8/18/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)					
9/22/2021		0.00011 (J)		0.0001 (J)	0.00011 (J)	0.0001 (J)
9/23/2021			0.0001 (J)			
2/1/2022				<0.0002	<0.0002	
2/2/2022		<0.0002				<0.0002
2/3/2022	<0.0002		<0.0002			
8/30/2022		<0.0002				
8/31/2022	<0.0002		<0.0002		<0.0002	
9/1/2022				<0.0002		<0.0002
Mean	0.0001879	0.0001936	0.0001929	0.0001929	0.0001936	0.0001933
Std. Dev.	3.142E-05	2.405E-05	2.673E-05	2.673E-05	2.405E-05	2.582E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.0001	0.0001	0.00011	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016			<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002		
10/25/2016	<0.0002	<0.0002		
10/26/2016			<0.0002	
10/27/2016				<0.0002
1/4/2017	<0.0002	<0.0002	<0.0002	
1/6/2017				<0.0002
4/4/2017	<0.0002	<0.0002		
4/6/2017			<0.0002	<0.0002
7/11/2017	<0.0002		<0.0002	
7/12/2017				<0.0002
7/13/2017		<0.0002		
10/2/2017	<0.0002			
10/3/2017		<0.0002		
10/4/2017			<0.0002	5E-05 (J)
1/9/2018		<0.0002		
1/10/2018	<0.0002			
1/11/2018			<0.0002	<0.0002
7/9/2018	<0.0002			
7/10/2018		<0.0002		
7/11/2018			<0.0002	<0.0002
1/17/2019		<0.0002		
1/18/2019			<0.0002	<0.0002
1/21/2019	<0.0002			
8/27/2019			<0.0002	
8/28/2019	<0.0002	<0.0002		<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	
8/19/2020				<0.0002
9/21/2021			0.0001 (J)	
9/22/2021	0.00011 (J)	0.00011 (J)		0.00011 (J)
2/1/2022	<0.0002	<0.0002		
2/2/2022				<0.0002
2/3/2022			<0.0002	
8/30/2022	<0.0002	<0.0002		
8/31/2022			<0.0002	
9/1/2022				<0.0002
Mean	0.0001936	0.0001936	0.0001929	0.0001829
Std. Dev.	2.405E-05	2.405E-05	2.673E-05	4.514E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00011	0.0001	0.00011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/30/2016		<0.001	<0.001	0.175		
8/31/2016					<0.001	<0.001
9/1/2016	0.035					
10/25/2016				0.242		
10/26/2016	0.0267	<0.001	<0.001		<0.001	<0.001
1/3/2017		<0.001				
1/4/2017				0.167	<0.001	<0.001
1/5/2017			<0.001			
1/6/2017	0.0278					
4/4/2017	0.0265			0.172		
4/5/2017						<0.001
4/6/2017		<0.001	<0.001		<0.001	
7/10/2017						<0.001
7/11/2017					<0.001	
7/12/2017	0.0209	<0.001	<0.001	0.182		
10/3/2017		<0.001	<0.001	0.162	<0.001	
10/4/2017	0.0181					<0.001
1/9/2018			<0.001			
1/10/2018		<0.001		0.117		
1/11/2018	0.0237				0.0018 (J)	<0.001
7/10/2018		<0.001	<0.001	0.11		
7/11/2018	0.024				<0.001	<0.001
8/27/2019	0.1		0.0026 (J)	0.06	<0.001	<0.001
8/28/2019		0.0012 (J)				
10/8/2019					<0.001	
10/9/2019	0.1	<0.001	<0.001	0.06		<0.001
4/7/2020	0.13	<0.001	<0.001	0.014	<0.001	<0.001
8/17/2020						<0.001
8/18/2020					0.00077 (J)	
8/19/2020	0.16	<0.001	0.001 (J)	0.061		
9/28/2020				0.059		
9/29/2020					<0.001	<0.001
9/30/2020		<0.001	0.00097 (J)			
10/1/2020	0.15					
3/10/2021	0.12	<0.001	0.0013 (J)	0.057	<0.001	<0.001
9/21/2021	0.12	<0.001	<0.001		<0.001	<0.001
9/23/2021				0.06		
2/2/2022	0.11		0.00085 (J)			
2/3/2022		<0.001		0.038	<0.001	<0.001
8/30/2022	0.154	<0.001	0.000649 (J)			0.000205 (J)
8/31/2022					0.000512 (J)	
9/1/2022				0.0343		
Mean	0.07922	0.001012	0.001081	0.1041	0.001005	0.0009532
Std. Dev.	0.05491	4.851E-05	0.0004098	0.06687	0.0002412	0.0001928
Upper Lim.	0.13	0.0012	0.0013	0.146	0.0018	0.001
Lower Lim.	0.024	0.001	0.001	0.06224	0.00077	0.000205

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
8/31/2016	<0.001					
9/1/2016		0.0027 (J)	0.132	0.08	<0.001	0.296
10/25/2016		0.0028 (J)	0.117	0.08		0.395
10/26/2016	<0.001				<0.001	
1/4/2017				0.0786		0.229
1/5/2017	<0.001	0.0022 (J)	0.109		<0.001	
4/3/2017			0.0994			
4/4/2017		0.0022 (J)				0.147
4/5/2017				0.113	<0.001	
4/6/2017	<0.001					
7/11/2017		0.0024 (J)	0.0938			0.136
7/12/2017	<0.001			0.178		
7/13/2017					<0.001	
10/2/2017		0.0025 (J)	0.103			0.13
10/3/2017				0.201		
10/4/2017	<0.001				<0.001	
1/9/2018		0.0038 (J)	0.106			
1/10/2018	<0.001			0.161		0.229
1/11/2018					<0.001	
7/9/2018		0.01				0.13
7/10/2018			0.088	0.14		
7/11/2018	<0.001				<0.001	
8/27/2019	<0.001	0.028	0.095			
8/28/2019				0.22	0.004 (J)	0.11
10/8/2019	<0.001	0.034	0.091	0.2		
10/9/2019					0.0036 (J)	0.071
4/7/2020		0.014	0.07	0.25		
4/8/2020	0.0056 (J)				0.0024 (J)	0.06
8/17/2020	<0.001					
8/18/2020		0.017	0.12	0.15	0.00092 (J)	0.097
9/28/2020	<0.001					
9/29/2020		0.0089 (J)				
9/30/2020			0.11	0.15	0.0041 (J)	0.33
3/11/2021					0.0038 (J)	
3/12/2021			0.098			0.53
3/15/2021	<0.001					
3/16/2021		0.0054 (J)		0.31		
9/21/2021	<0.001					
9/22/2021		0.018		0.22	0.0053 (J)	0.5
9/23/2021			0.094			
2/1/2022				0.18	0.003 (J)	0.77
2/2/2022		0.015				
2/3/2022	<0.001		0.086			
8/30/2022		0.0133				0.309
8/31/2022	<0.001		0.0786		0.00252	
9/1/2022				0.154		
Mean	0.001271	0.01072	0.09946	0.1686	0.002214	0.2629
Std. Dev.	0.001116	0.009545	0.01545	0.06266	0.001477	0.1946
Upper Lim.	0.0056	0.01488	0.1091	0.2078	0.0038	0.3536
Lower Lim.	0.001	0.004383	0.08978	0.1293	0.001	0.137

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	MW-24D	MW-25D
9/1/2016	0.0686		
10/25/2016	0.0018 (J)		
1/4/2017	0.0222		
4/4/2017	0.0476		
7/13/2017	0.0105		
10/3/2017	0.0031 (J)		
1/9/2018	0.09		
7/10/2018	0.047		
8/28/2019	0.07		
10/8/2019	0.078		
4/7/2020	0.012		
8/18/2020	0.069		
9/30/2020	0.028		
1/20/2021			0.0011 (J)
1/21/2021		0.0014 (J)	
3/11/2021		0.0035 (J)	0.0015 (J)
3/16/2021	0.024		
9/22/2021	0.0019 (J)	0.0032 (J)	
9/23/2021			<0.001
2/1/2022	0.042	0.0024 (J)	
2/3/2022			<0.001
8/30/2022	0.049		
8/31/2022			0.000863 (J)
9/1/2022		0.00174	
Mean	0.0391	0.002448	0.001093
Std. Dev.	0.02886	0.0009047	0.0002428
Upper Lim.	0.05718	0.003964	0.001454
Lower Lim.	0.02102	0.000932	0.0006211

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.023		
1/18/2016	<0.005	<0.005	<0.005			<0.005
1/19/2016					0.023	
7/26/2016					0.0056 (J)	
7/27/2016		<0.005		0.002 (J)		0.0025 (J)
7/28/2016			<0.005			
7/29/2016	0.0036 (J)					
8/30/2016		<0.005	<0.005	0.002 (J)		
8/31/2016					0.0084 (J)	0.0019 (J)
9/1/2016	0.0067 (J)					
10/25/2016				0.0022 (J)		
10/26/2016	0.0042 (J)	<0.005	<0.005		0.0052 (J)	0.002 (J)
1/3/2017		<0.005				
1/4/2017				0.0016 (J)	0.0062 (J)	<0.005
1/5/2017			0.0014 (J)			
1/6/2017	0.0042 (J)					
4/4/2017	0.0043 (J)			0.0052 (J)		
4/5/2017						<0.005
4/6/2017		<0.005	<0.005		0.0195	
7/10/2017						<0.005
7/11/2017					<0.005	
7/12/2017	0.0033 (J)	<0.005	<0.005	0.0024 (J)		
10/3/2017		<0.005	<0.005	<0.005	0.0079 (J)	
10/4/2017	0.0038 (J)					<0.005
1/9/2018			<0.005			
1/10/2018		<0.005		0.0018 (J)		
1/11/2018	0.0029 (J)				0.0054 (J)	<0.005
7/10/2018		0.0018 (J)	0.0016 (J)	0.0026 (J)		
7/11/2018	0.0015 (J)				0.0022 (J)	<0.005
1/16/2019	<0.005	<0.005	<0.005	0.0018 (J)		
1/17/2019					<0.005	<0.005
3/25/2019	<0.005					
3/26/2019		<0.005	0.05 (J)	0.0023 (J)		
3/27/2019					0.01 (J)	<0.005
8/27/2019	<0.005		0.0033 (J)	0.0016 (J)	<0.005	<0.005
8/28/2019		0.0033 (J)				
10/8/2019					<0.005	
10/9/2019	<0.005	0.0073 (J)	<0.005	0.0024 (J)		<0.005
4/7/2020	0.0025 (J)	<0.005	<0.005	0.0013 (J)	0.0021 (J)	<0.005
8/17/2020						<0.005
8/18/2020					0.0028 (J)	
8/19/2020	<0.005	<0.005	<0.005	0.002 (J)		
9/28/2020				<0.005		
9/29/2020					0.0024 (J)	<0.005
9/30/2020		<0.005	0.0023 (J)			
10/1/2020	<0.005					
3/10/2021	0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)	0.0044 (J)	0.003 (J)
9/21/2021	<0.005	<0.005	0.0016 (J)		0.0038 (J)	<0.005
9/23/2021				0.0018 (J)		
2/2/2022	<0.005		0.0017 (J)			
2/3/2022		<0.005		0.0022 (J)	0.019	<0.005
8/30/2022	0.00265 (J)	<0.005	0.00277 (J)			<0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					0.00344 (J)	
9/1/2022				0.00252 (J)		
Mean	0.004131	0.004924	0.00617	0.003491	0.007207	0.004495
Std. Dev.	0.001264	0.0009823	0.01014	0.004609	0.005946	0.001084
Upper Lim.	0.003863	0.006	0.005	0.0026	0.007591	0.005
Lower Lim.	0.0026	0.0033	0.0023	0.0018	0.003421	0.003

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
1/17/2016	<0.005	<0.005	0.0031 (J)		<0.005	<0.005
1/18/2016				<0.005		
4/26/2016	0.00428 (J)		0.00497 (J)			
7/27/2016	0.0038 (J)	<0.005			0.002 (J)	
7/28/2016			0.0076 (J)			<0.005
7/29/2016				0.0011 (J)		
8/31/2016					<0.005	
9/1/2016	0.0056 (J)	<0.005	0.0052 (J)	0.0012 (J)		<0.005
10/25/2016	0.0023 (J)	<0.005	0.0085 (J)			0.0014 (J)
10/26/2016				0.0013 (J)	0.0035 (J)	
1/4/2017			0.0048 (J)			0.0014 (J)
1/5/2017	0.0038 (J)	<0.005		0.0012 (J)	<0.005	
4/3/2017		<0.005				
4/4/2017	0.0064 (J)				<0.005	<0.005
4/5/2017			0.0068 (J)	<0.005		
7/11/2017	0.0044 (J)	<0.005				<0.005
7/12/2017			0.0048 (J)			
7/13/2017				0.0018 (J)	<0.005	
10/2/2017	0.004 (J)	<0.005				<0.005
10/3/2017			0.0051 (J)		<0.005	
10/4/2017				0.0042 (J)		
1/9/2018	0.0019 (J)	0.0019 (J)				
1/10/2018			0.0018 (J)		<0.005	<0.005
1/11/2018				<0.005		
7/9/2018	0.0029 (J)					<0.005
7/10/2018		0.0086 (J)	0.0045 (J)		<0.005	
7/11/2018				0.0016 (J)		
1/16/2019	0.0016 (J)			<0.005		
1/17/2019		0.0029 (J)	0.0031 (J)			
1/21/2019					<0.005	0.0014 (J)
3/25/2019						<0.005
3/26/2019	0.0022 (J)	0.0074 (J)	0.0033 (J)	<0.005		
7/30/2019					<0.005	
8/27/2019	0.0035 (J)	0.0092 (J)			<0.005	
8/28/2019			0.004 (J)	<0.005		0.0014 (J)
10/8/2019	0.0026 (J)	0.014	0.0023 (J)			
10/9/2019				<0.005	<0.005	<0.005
4/7/2020	0.005 (J)	0.0029 (J)	<0.005			
4/8/2020				<0.005	<0.005	0.0013 (J)
8/18/2020	0.0029 (J)	0.0022 (J)	0.0058 (J)	0.002 (J)	<0.005	<0.005
9/29/2020	0.0051 (J)				<0.005	
9/30/2020		<0.005	0.0037 (J)	<0.005		<0.005
3/11/2021				0.0016 (J)		
3/12/2021		0.0064				<0.005
3/15/2021					<0.005	
3/16/2021	0.0034 (J)		0.0044 (J)			
9/22/2021	0.0034 (J)		0.0031 (J)	<0.005	<0.005	0.0024 (J)
9/23/2021		0.0016 (J)				
2/1/2022			0.0024 (J)	<0.005		<0.005
2/2/2022	0.0038 (J)				<0.005	
2/3/2022		0.0031 (J)				
8/30/2022	0.00544					0.00192 (J)

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2022		0.00192 (J)		<0.005		
9/1/2022			0.00334 (J)		<0.005	
Mean	0.003787	0.005101	0.004437	0.003619	0.004786	0.003868
Std. Dev.	0.001284	0.002916	0.001692	0.001743	0.0007171	0.001656
Upper Lim.	0.004476	0.004932	0.005345	0.005	0.005	0.005
Lower Lim.	0.003098	0.002125	0.003529	0.0016	0.0035	0.00192

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22
1/17/2016	0.021	
1/18/2016		<0.005
7/28/2016	0.0341	
7/29/2016		0.0022 (J)
8/31/2016		0.0014 (J)
9/1/2016	0.0297	
10/25/2016	0.0095 (J)	
10/26/2016		0.001 (J)
1/4/2017	0.022	<0.005
4/4/2017	0.0236	
4/6/2017		<0.005
7/11/2017		<0.005
7/13/2017	0.013	
10/3/2017	0.01 (J)	
10/4/2017		0.0023 (J)
1/9/2018	0.0162	
1/11/2018		<0.005
7/10/2018	0.016	
7/11/2018		<0.005
1/17/2019	0.011	
1/18/2019		<0.005
3/26/2019	0.022	
3/27/2019		<0.005
8/27/2019		<0.005
8/28/2019	0.019	
10/8/2019	0.019	
10/9/2019		<0.005
4/7/2020	0.012	<0.005
8/18/2020	0.013	<0.005
9/30/2020	0.0061 (J)	<0.005
3/10/2021		<0.005
3/16/2021	0.0055	
9/21/2021		<0.005
9/22/2021	0.0027 (J)	
2/1/2022	0.0054	
2/3/2022		<0.005
8/30/2022	0.00648	
8/31/2022		<0.005
Mean	0.01511	0.004376
Std. Dev.	0.008357	0.00134
Upper Lim.	0.01972	0.005
Lower Lim.	0.0105	0.0023

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-1	GWC-11	GWC-12	GWC-14
8/30/2016		<0.002	<0.002			
8/31/2016				<0.002	<0.002	
9/1/2016	<0.002					<0.002
10/25/2016			<0.002			<0.002
10/26/2016	<0.002	<0.002		<0.002	0.0003 (J)	
1/3/2017		<0.002				
1/4/2017			<0.002	<0.002	<0.002	
1/5/2017						<0.002
1/6/2017	<0.002					
4/4/2017	7E-05 (J)		5E-05 (J)			7E-05 (J)
4/5/2017					0.0002 (J)	
4/6/2017		<0.002		6E-05 (J)		
7/10/2017					0.0002 (J)	
7/11/2017				<0.002		6E-05 (J)
7/12/2017	<0.002	<0.002	<0.002			
10/2/2017						<0.002
10/3/2017		<0.002	<0.002	7E-05 (J)		
10/4/2017	<0.002				0.0002 (J)	
1/9/2018						<0.002
1/10/2018		<0.002	<0.002			
1/11/2018	7E-05 (J)			0.0001 (J)	0.0002 (J)	
7/9/2018						<0.002
7/10/2018		<0.002	<0.002			
7/11/2018	<0.002			<0.002	<0.002	
8/27/2019	<0.002		<0.002	<0.002	0.00011 (J)	<0.002
8/28/2019		5.7E-05 (J)				
10/8/2019				9.8E-05 (J)		<0.002
10/9/2019	<0.002	0.00031 (J)	5.4E-05 (J)		0.00014 (J)	
4/7/2020	<0.002	<0.002	5.4E-05 (J)	0.00019 (J)	0.00013 (J)	<0.002
8/17/2020					<0.002	
8/18/2020				0.00021 (J)		<0.002
8/19/2020	<0.002	<0.002	<0.002			
9/28/2020			<0.002			
9/29/2020				0.00017 (J)	<0.002	<0.002
9/30/2020		<0.002				
10/1/2020	<0.002					
3/10/2021	<0.002	<0.002	<0.002	0.00022 (J)	<0.002	
3/16/2021						<0.002
9/21/2021	<0.002	<0.002		<0.002	<0.002	
9/22/2021						<0.002
9/23/2021			<0.002			
2/2/2022	<0.002					<0.002
2/3/2022		<0.002	<0.002	<0.002	<0.002	
8/30/2022	<0.002	<0.002			<0.002	<0.002
8/31/2022				<0.002		
9/1/2022			<0.002			
Mean	0.001773	0.001786	0.001656	0.001125	0.001146	0.001772
Std. Dev.	0.000641	0.0006049	0.0007652	0.000958	0.0009346	0.0006426
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	7E-05	0.00031	5.4E-05	0.0001	0.00014	7E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-2	GWC-21	GWC-22
8/31/2016			<0.002		<0.002
9/1/2016	<0.002	<0.002		<0.002	
10/25/2016	<0.002			<0.002	
10/26/2016		<0.002	<0.002		<0.002
1/4/2017	<0.002			<0.002	<0.002
1/5/2017		<0.002	<0.002		
4/4/2017			<0.002	5E-05 (J)	
4/5/2017	6E-05 (J)	0.0001 (J)			
4/6/2017					<0.002
7/11/2017					<0.002
7/12/2017	<0.002				
7/13/2017		<0.002	<0.002	<0.002	
10/3/2017	<0.002		<0.002	<0.002	
10/4/2017		0.0001 (J)			0.0001 (J)
1/9/2018				<0.002	
1/10/2018	5E-05 (J)		<0.002		
1/11/2018		0.0001 (J)			6E-05 (J)
7/10/2018	<0.002		<0.002	<0.002	
7/11/2018		<0.002			<0.002
7/30/2019			0.00011 (J)		
8/27/2019			<0.002		8.6E-05 (J)
8/28/2019	<0.002	6.6E-05 (J)		<0.002	
10/8/2019	<0.002			<0.002	
10/9/2019		7.6E-05 (J)	<0.002		<0.002
4/7/2020	<0.002			<0.002	6.5E-05 (J)
4/8/2020		5.6E-05 (J)	<0.002		
8/18/2020	<0.002	<0.002	<0.002	<0.002	0.00017 (J)
9/29/2020			<0.002		
9/30/2020	<0.002	<0.002		<0.002	<0.002
3/10/2021					<0.002
3/11/2021		<0.002			
3/15/2021			<0.002		
3/16/2021	<0.002			<0.002	
9/21/2021					<0.002
9/22/2021	<0.002	<0.002	<0.002	<0.002	
2/1/2022	<0.002	<0.002		<0.002	
2/2/2022			<0.002		
2/3/2022					<0.002
8/30/2022				<0.002	
8/31/2022		<0.002			<0.002
9/1/2022	<0.002		<0.002		
Mean	0.001771	0.001323	0.001895	0.001885	0.00144
Std. Dev.	0.0006459	0.0009444	0.0004455	0.0004729	0.0008944
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	6E-05	7.6E-05	0.00011	5E-05	0.0001

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.0046 (J)		
1/18/2016	0.049	0.0069	0.0044 (J)			0.0058
1/19/2016					0.0025 (J)	
7/26/2016					0.0027 (J)	
7/27/2016		0.0046 (J)		0.0064 (J)		0.0058 (J)
7/28/2016			0.0038 (J)			
7/29/2016	0.0388					
1/3/2017		<0.02				
1/4/2017				<0.02	<0.02	<0.02
1/5/2017			0.0077 (J)			
1/6/2017	0.0341					
4/4/2017	0.0371			0.0061 (J)		
4/5/2017						0.0039 (J)
4/6/2017		0.0063 (J)	0.0069 (J)		0.0025 (J)	
7/10/2017						0.0062 (J)
7/11/2017					0.0027 (J)	
7/12/2017	0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)		
1/9/2018			0.0086 (J)			
1/10/2018		0.0077 (J)		0.0056 (J)		
1/11/2018	0.0327				0.0019 (J)	0.0025 (J)
7/10/2018		0.016	0.0098 (J)	0.0056 (J)		
7/11/2018	0.02				0.0021 (J)	0.0059 (J)
1/16/2019	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)		
1/17/2019					0.0021 (J)	<0.02
3/25/2019	0.004 (J)					
3/26/2019		0.0058 (J)	0.086	0.0051 (J)		
3/27/2019					0.0023 (J)	0.0049 (J)
10/8/2019					<0.02	
10/9/2019	<0.02	0.033 (J)	0.018 (J)	<0.02		0.0021 (J)
4/7/2020	0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)	<0.02	0.0024 (J)
9/28/2020				0.0042 (J)		
9/29/2020					0.0023 (J)	0.0046 (J)
9/30/2020		0.0037 (J)	0.018			
10/1/2020	0.0047 (J)					
3/10/2021	0.0054 (J)	0.0026 (J)	0.027	0.005 (J)	0.0023 (J)	0.0055 (J)
9/21/2021	0.0027 (J)	0.0039 (J)	0.015		0.002 (J)	0.0051 (J)
9/23/2021				0.0042 (J)		
2/2/2022	0.0031 (J)		0.0099 (J)			
2/3/2022		0.0046 (J)		0.0028 (J)	0.0031 (J)	0.0052 (J)
8/30/2022	0.00943 (J)	0.0138 (J)	0.0192 (J)			0.00949 (J)
8/31/2022					0.00481 (J)	
9/1/2022				0.00748 (J)		
Mean	0.01918	0.008994	0.02263	0.006849	0.005832	0.006837
Std. Dev.	0.01676	0.00808	0.02488	0.005337	0.007061	0.005433
Upper Lim.	0.0388	0.01088	0.02669	0.008409	0.00481	0.008356
Lower Lim.	0.0031	0.004351	0.008142	0.00372	0.0021	0.003653

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.028	0.0013 (J)	0.0029 (J)		<0.02
1/18/2016	0.0011 (J)				0.0019 (J)	
4/26/2016		0.0181		0.00296 (J)		
7/26/2016	<0.02					
7/27/2016		0.0189	<0.02			<0.02
7/28/2016				0.0026 (J)		
7/29/2016					0.0031 (J)	
10/25/2016		0.0206	<0.02	<0.02		
1/4/2017				<0.02		
1/5/2017	<0.02	0.0172	<0.02		<0.02	<0.02
4/3/2017			0.002 (J)			
4/4/2017		0.0235				<0.02
4/5/2017				0.0033 (J)	0.0029 (J)	
4/6/2017	<0.02					
7/11/2017		0.0136	0.0022 (J)			
7/12/2017	0.0016 (J)			0.0037 (J)		
7/13/2017					0.0037 (J)	<0.02
10/2/2017		0.0175	0.0022 (J)			
10/3/2017				0.0036 (J)		
1/9/2018		0.0103	0.0021 (J)			
1/10/2018	0.0019 (J)			0.0029 (J)		<0.02
1/11/2018					0.0026 (J)	
7/9/2018		0.0078 (J)				
7/10/2018			0.0025 (J)	0.0025 (J)		<0.02
7/11/2018	0.0097 (J)				0.0032 (J)	
1/16/2019	<0.02	0.0043 (J)			<0.02	
1/17/2019			<0.02	0.0021 (J)		
1/21/2019						0.0024 (J)
3/26/2019	0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)	0.0024 (J)	
7/30/2019						<0.02
10/8/2019	<0.02	<0.02	<0.02	<0.02		
10/9/2019					<0.02	<0.02
4/7/2020		0.0026 (J)	<0.02	<0.02		
4/8/2020	<0.02				<0.02	<0.02
9/28/2020	<0.02					
9/29/2020		<0.02				<0.02
9/30/2020			0.0028 (J)	0.0028 (J)	<0.02	
3/11/2021					<0.02	
3/12/2021			0.0037 (J)			
3/15/2021	<0.02					<0.02
3/16/2021		<0.02		0.0034 (J)		
9/21/2021	<0.02					
9/22/2021		0.0052 (J)		0.0025 (J)	<0.02	<0.02
9/23/2021			0.0022 (J)			
2/1/2022				0.0021 (J)	0.0022 (J)	
2/2/2022		0.004 (J)				<0.02
2/3/2022	<0.02		0.0023 (J)			
8/30/2022		0.00933 (J)				
8/31/2022	<0.02		0.00476 (J)		0.00599 (J)	
9/1/2022				0.0065 (J)		0.0045 (J)
Mean	0.01482	0.01406	0.00837	0.006719	0.0105	0.01793
Std. Dev.	0.008138	0.007586	0.008492	0.007108	0.008699	0.005666

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
Upper Lim.	0.02	0.01685	0.02	0.0065	0.02	0.02
Lower Lim.	0.0019	0.008245	0.0022	0.0026	0.0024	0.0045

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
1/17/2016	0.0025 (J)	0.0039 (J)				
1/18/2016			<0.02	<0.02		
7/28/2016	0.0024 (J)	0.0022 (J)		<0.02		
7/29/2016			0.0052 (J)			
10/25/2016	<0.02					
1/4/2017	<0.02	<0.02	<0.02			
1/6/2017				<0.02		
4/4/2017	0.0024 (J)	0.003 (J)				
4/6/2017			<0.02	<0.02		
7/11/2017	0.003 (J)		0.0016 (J)			
7/12/2017				0.0013 (J)		
7/13/2017		0.0019 (J)				
10/2/2017	0.0028 (J)					
1/9/2018		0.0046 (J)				
1/10/2018	0.0026 (J)					
1/11/2018			0.0012 (J)	<0.02		
7/9/2018	<0.02					
7/10/2018		0.0031 (J)				
7/11/2018			0.0025 (J)	<0.02		
1/17/2019		0.0022 (J)				
1/18/2019			<0.02	<0.02		
1/21/2019	0.0031 (J)					
3/25/2019	0.0024 (J)					
3/26/2019		0.0041 (J)				
3/27/2019			0.002 (J)	<0.02		
10/8/2019		<0.02				
10/9/2019	<0.02		<0.02	<0.02		
4/7/2020		<0.02	0.0014 (J)			
4/8/2020	<0.02			0.0015 (J)		
9/30/2020	0.0029 (J)	0.0029 (J)	<0.02			
10/1/2020				<0.02		
3/10/2021			<0.02	<0.02		
3/11/2021					<0.02	0.0024 (J)
3/12/2021	0.0038 (J)					
3/16/2021		0.003 (J)				
9/21/2021			<0.02			
9/22/2021	0.0033 (J)	<0.02		<0.02	<0.02	
9/23/2021						<0.02
2/1/2022	0.0039 (J)	0.0036 (J)			<0.02	
2/2/2022				<0.02		
2/3/2022			<0.02			<0.02
8/30/2022	0.00647 (J)	0.00715 (J)				
8/31/2022			0.00396 (J)			<0.02
9/1/2022				0.00514 (J)	0.00414 (J)	
Mean	0.007865	0.007603	0.01237	0.01675	0.01603	0.0156
Std. Dev.	0.007799	0.007491	0.008989	0.00704	0.00793	0.0088
Upper Lim.	0.02	0.02	0.02	0.02	0.02	0.02
Lower Lim.	0.0025	0.0029	0.0016	0.00514	0.00414	0.0024

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.02		
1/18/2016	0.0092	<0.02	0.0029			0.0025
1/19/2016					0.0029	
7/26/2016					<0.02	
7/27/2016		0.0015 (J)		<0.02		0.0021 (J)
7/28/2016			<0.02			
7/29/2016	0.003 (J)					
1/3/2017		<0.02				
1/4/2017				<0.02	<0.02	0.0025 (J)
1/5/2017			<0.02			
1/6/2017	0.0104					
4/4/2017	0.0132			<0.02		
4/5/2017						0.0026 (J)
4/6/2017		0.0023 (J)	0.0032 (J)		0.004 (J)	
7/10/2017						0.0023 (J)
7/11/2017					<0.02	
7/12/2017	0.0046 (J)	<0.02	0.002 (J)	<0.02		
1/9/2018			0.0036 (J)			
1/10/2018		0.0022 (J)		0.0014 (J)		
1/11/2018	0.0095 (J)				0.0018 (J)	0.0031 (J)
7/10/2018		<0.02	0.0055 (J)	0.0021 (J)		
7/11/2018	0.0028 (J)				<0.02	0.0036 (J)
1/16/2019	0.0052 (J)	<0.02	<0.02	<0.02		
1/17/2019					<0.02	0.0032 (J)
3/25/2019	0.0078 (J)					
3/26/2019		<0.02	<0.02	<0.02		
3/27/2019					<0.02	0.0031 (J)
10/8/2019					0.0061 (J)	
10/9/2019	0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)		0.0057 (J)
4/7/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/28/2020				0.0092 (J)		
9/29/2020					0.0031 (J)	0.0074 (J)
9/30/2020		<0.02	<0.02			
10/1/2020	0.0064 (J)					
3/10/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/21/2021	<0.02	<0.02	<0.02		<0.02	<0.02
9/23/2021				<0.02		
2/2/2022	<0.02		<0.02			
2/3/2022		<0.02		<0.02	<0.02	<0.02
8/30/2022	<0.02	<0.02	0.0132 (J)			0.0262
8/31/2022					<0.02	
9/1/2022				0.00578 (J)		
Mean	0.01116	0.01588	0.01415	0.01526	0.01487	0.009019
Std. Dev.	0.006702	0.007495	0.007714	0.007441	0.007904	0.008732
Upper Lim.	0.008677	0.02	0.02	0.02	0.02	0.02
Lower Lim.	0.004539	0.0023	0.0032	0.0057	0.0031	0.0025

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		<0.02	<0.02	<0.02		<0.02
1/18/2016	0.0017 (J)				0.012	
4/26/2016		<0.02		<0.02		
7/26/2016	0.0028 (J)					
7/27/2016		<0.02	<0.02			0.0018 (J)
7/28/2016				<0.02		
7/29/2016					0.0086 (J)	
10/25/2016		<0.02	<0.02	<0.02		
1/4/2017				0.0025 (J)		
1/5/2017	0.0021 (J)	<0.02	<0.02		0.016	<0.02
4/3/2017			<0.02			
4/4/2017		<0.02				0.0015 (J)
4/5/2017				0.0025 (J)	0.0175	
4/6/2017	0.0027 (J)					
7/11/2017		<0.02	<0.02			
7/12/2017	0.0043 (J)			0.002 (J)		
7/13/2017					0.0126	0.0014 (J)
10/2/2017		0.0026 (J)	<0.02			
10/3/2017				<0.02		
1/9/2018		0.0018 (J)	<0.02			
1/10/2018	0.0021 (J)			0.0016 (J)		<0.02
1/11/2018					0.012	
7/9/2018		<0.02				
7/10/2018			<0.02	0.0031 (J)		<0.02
7/11/2018	0.0039 (J)				0.011	
1/16/2019	0.047	<0.02			0.0094 (J)	
1/17/2019			<0.02	<0.02		
1/21/2019						<0.02
3/26/2019	0.03	<0.02	<0.02	<0.02	0.0057 (J)	
7/30/2019						0.0067 (J)
10/8/2019	0.053	0.0052 (J)	0.0051 (J)	0.01		
10/9/2019					0.011	0.005 (J)
4/7/2020		<0.02	<0.02	<0.02		
4/8/2020	0.023				<0.02	<0.02
9/28/2020	0.016					
9/29/2020		<0.02				0.056
9/30/2020			0.032	0.0051 (J)	0.0043 (J)	
3/11/2021					0.0056 (J)	
3/12/2021			<0.02			
3/15/2021	0.039					<0.02
3/16/2021		<0.02		<0.02		
9/21/2021	0.036					
9/22/2021		0.01		<0.02	<0.02	<0.02
9/23/2021			<0.02			
2/1/2022				<0.02	0.011	
2/2/2022		<0.02				<0.02
2/3/2022	0.037		<0.02			
8/30/2022		<0.02				
8/31/2022	0.0266		0.00395 (J)		0.0068 (J)	
9/1/2022				0.0119 (J)		0.0125 (J)
Mean	0.02045	0.01682	0.01895	0.01362	0.01147	0.01656
Std. Dev.	0.01819	0.006502	0.005959	0.008076	0.004888	0.01312

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
Upper Lim.	0.039	0.02	0.032	0.02	0.01465	0.056
Lower Lim.	0.0027	0.01	0.0051	0.0031	0.008288	0.0018

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	<0.02	<0.02				
1/18/2016			<0.02	0.0059		
7/28/2016	<0.02	<0.02		0.0019 (J)		
7/29/2016			0.0129			
10/25/2016	<0.02					
1/4/2017	<0.02	<0.02	0.006 (J)			
1/6/2017				0.0026 (J)		
4/4/2017	<0.02	0.0015 (J)				
4/6/2017			0.0031 (J)	0.0047 (J)		
7/11/2017	<0.02		0.0029 (J)			
7/12/2017				0.003 (J)		
7/13/2017		0.002 (J)				
10/2/2017	<0.02					
1/9/2018		0.0016 (J)				
1/10/2018	0.0034 (J)					
1/11/2018			0.0106	0.0046 (J)		
7/9/2018	<0.02					
7/10/2018		<0.02				
7/11/2018			0.0057 (J)	0.0033 (J)		
1/17/2019		<0.02				
1/18/2019			0.0024 (J)	0.0025 (J)		
1/21/2019	<0.02					
3/25/2019	<0.02					
3/26/2019		<0.02				
3/27/2019			<0.02	0.0026 (J)		
10/8/2019		0.0071 (J)				
10/9/2019	0.0049 (J)		0.0079 (J)	0.0054 (J)		
4/7/2020		<0.02	<0.02			
4/8/2020	<0.02			<0.02		
9/30/2020	0.031	0.0096 (J)	<0.02			
10/1/2020				0.025		
3/10/2021			<0.02	<0.02		
3/11/2021					0.0067 (J)	0.0025 (J)
3/12/2021	<0.02					
3/16/2021		<0.02				
9/21/2021			<0.02			
9/22/2021	<0.02	<0.02		<0.02	<0.02	<0.02
2/1/2022	<0.02	<0.02				<0.02
2/2/2022				<0.02		
2/3/2022			<0.02		<0.02	
8/30/2022	0.0171 (J)	0.00814 (J)				
8/31/2022			<0.02		0.0106 (J)	
9/1/2022				0.0163 (J)		0.0102 (J)
Mean	0.01869	0.01437	0.01322	0.009862	0.01432	0.01317
Std. Dev.	0.005951	0.007802	0.007473	0.008504	0.006744	0.008485
Upper Lim.	0.031	0.02	0.02	0.02	0.01308	0.01509
Lower Lim.	0.0171	0.002	0.0031	0.0026	0.004223	-0.002391

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 11/6/2022 10:04 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	0.0054 (J)
9/23/2021	<0.02
2/3/2022	0.051
8/31/2022	0.0161 (J)
Mean	0.02312
Std. Dev.	0.01958
Upper Lim.	0.06176
Lower Lim.	-0.02013

FIGURE K.

Appendix IV Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/5/2022, 6:52 PM

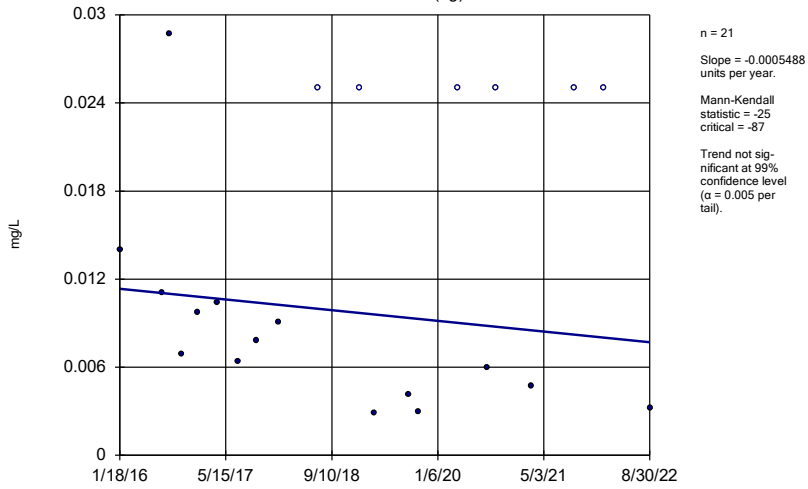
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.03505	172	87	Yes	21	0	n/a	n/a	0.01	NP

Appendix IV Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/5/2022, 6:52 PM

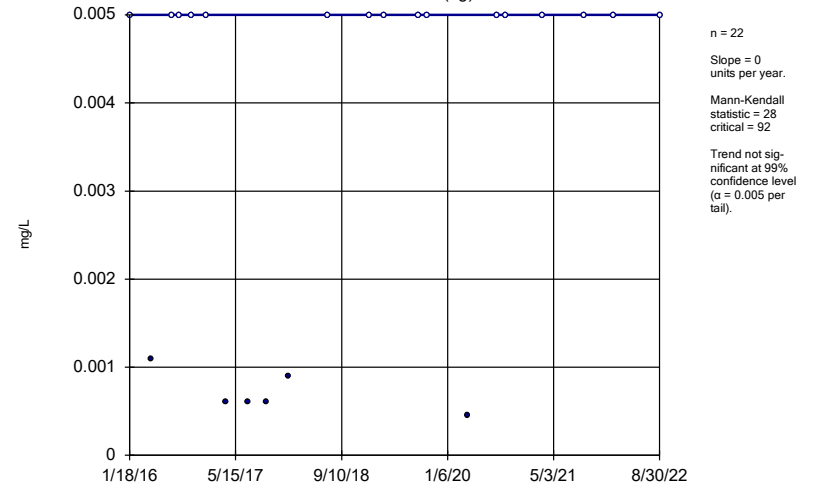
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0005488	-25	-87	No	21	28.57	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	28	92	No	22	72.73	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03505	172	87	Yes	21	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	0.003681	65	92	No	22	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.003801	24	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	9	63	No	17	76.47	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-16	0.01903	57	63	No	17	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-20	0.005248	4	63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator GWA-7 (bg)



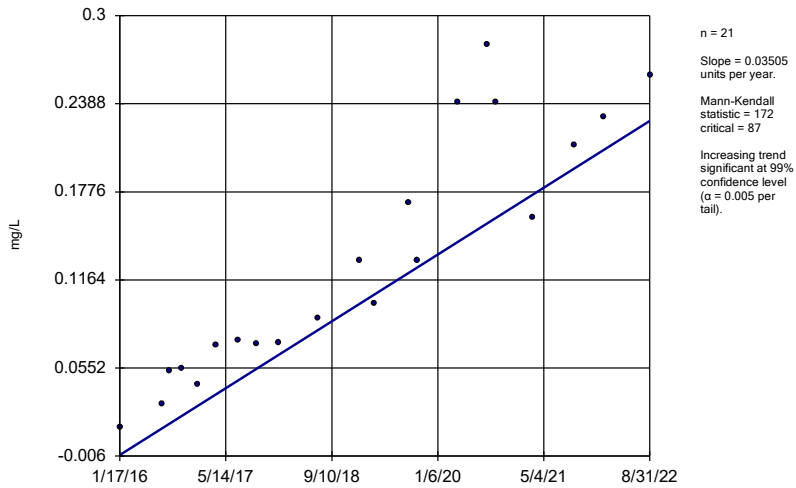
Constituent: Arsenic Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-8 (bg)



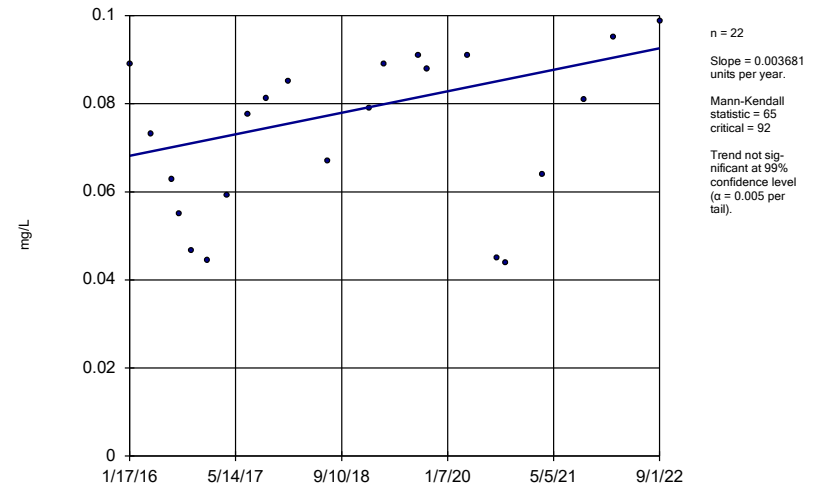
Constituent: Arsenic Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-15



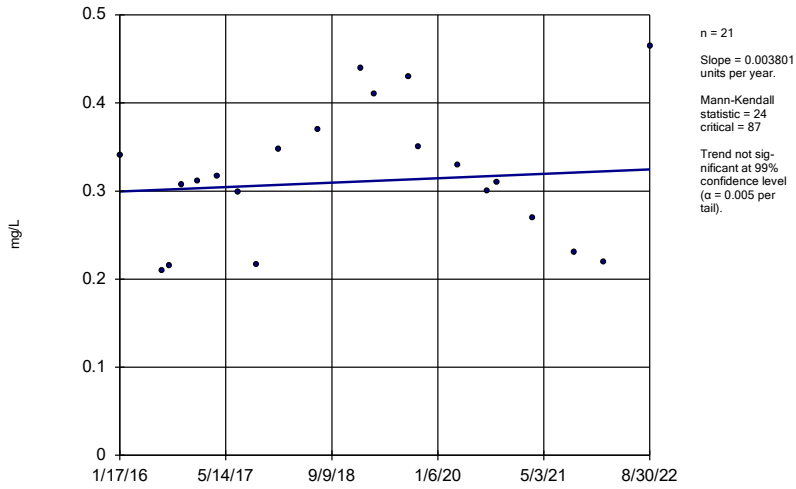
Constituent: Arsenic Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-16



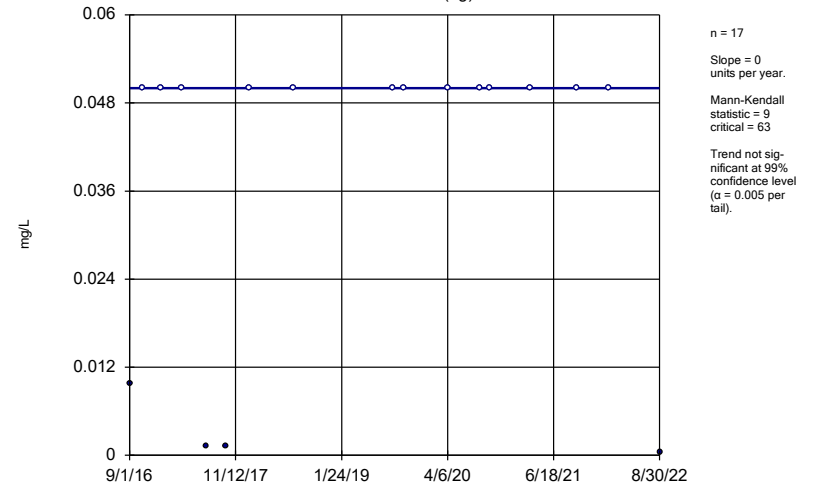
Constituent: Arsenic Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-20



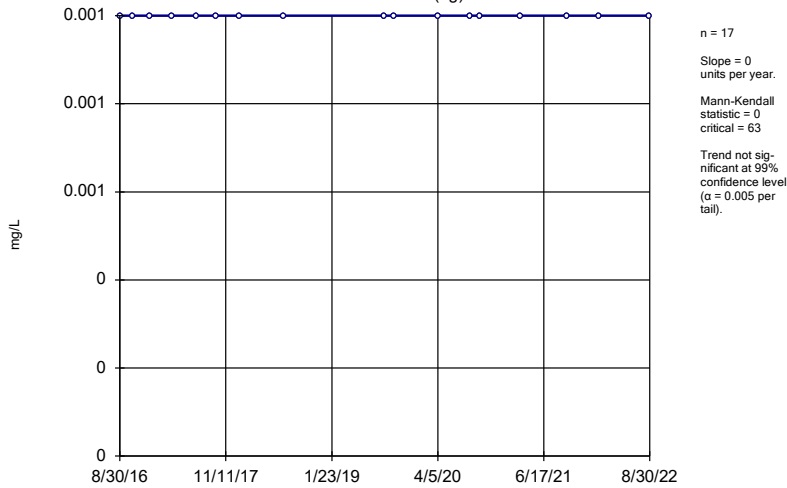
Constituent: Arsenic Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-7 (bg)



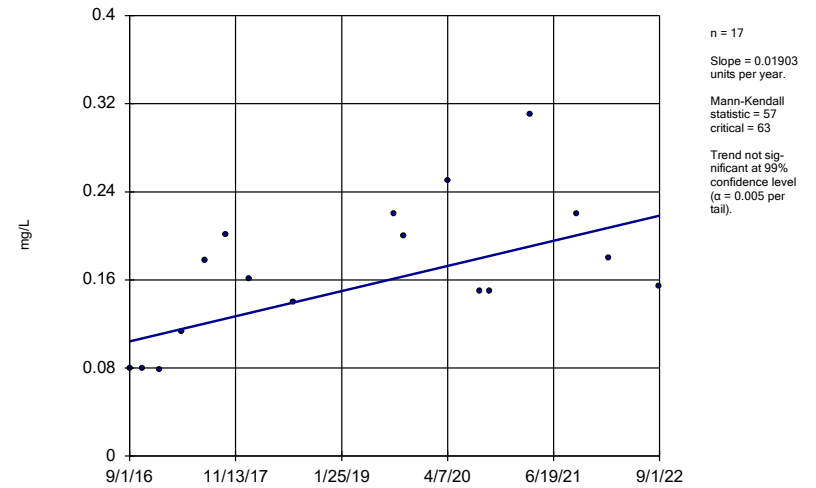
Constituent: Molybdenum Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWA-8 (bg)



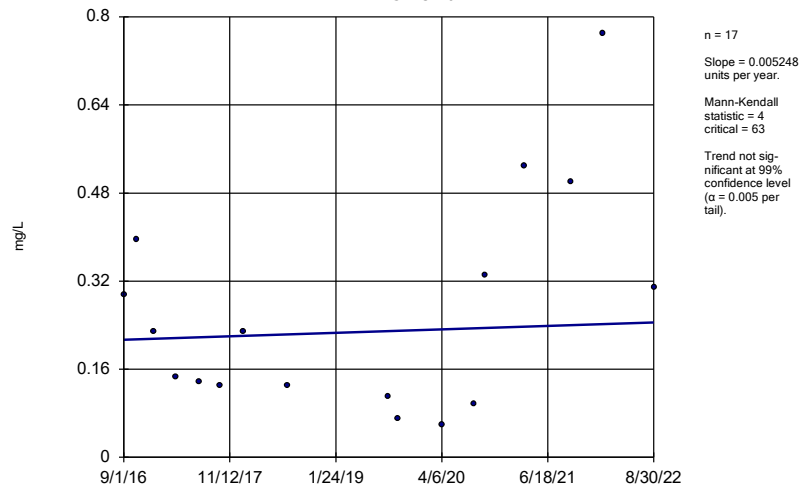
Constituent: Molybdenum Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-16



Constituent: Molybdenum Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator GWC-20



Constituent: Molybdenum Analysis Run 11/5/2022 6:48 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

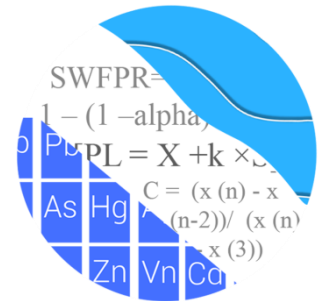
APPENDIX C

*Statistical Analysis Reports
January 2023 Monitoring Event*

GROUNDWATER STATS CONSULTING

July 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Kraft's Grumman Road Landfill
Statistical Analysis – February 2023 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the groundwater statistical analysis of the February 2023 sample event for Georgia Power Company's Plant Kraft's Grumman Road Landfill. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed at most wells for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-7 and GWA-8
- **Downgradient wells:** GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-2, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
- **Assessment wells:** MW-23D, MW-24D, and MW-25D

Assessment wells were installed in late 2020 and were first sampled in early 2021 for all constituents except mercury, which was first sampled in September 2021. These assessment wells currently have limited samples available; however, data are evaluated

with confidence intervals for well/constituent pairs when a minimum of four observations are available. Note that sampling has ceased at assessment wells MW-26D and MW-27D; therefore, no analysis was required.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The program monitors the constituents listed below. Georgia EPD Appendix II and CCR Appendix IV constituents overlap with the exception of vanadium and zinc, which are required for Georgia EPD. The terms "parameters" and "constituents" are used interchangeably throughout.

- **Georgia EPD Appendix I** (Detection Monitoring) – antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc
- **CCR Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix II/CCR Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for all parameters at each well are provided for the purpose of screening data at these wells (Figure A). Additionally, time series plots of all parameters at upgradient wells are included to more easily display concentrations upgradient of the facility (Figure A). 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Due to varying detection limits in background data sets as a result of improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. Of particular note is the reporting limits for metals at upgradient well GWA-7. Due to higher dilutions required for some metal analyses for this well, the reporting limits may vary between sampling events and are sometimes considerably higher than corresponding

reporting limits for other wells. On the other hand, some detected observations are recorded at extremely low concentrations for this well, below the MCL of 0.01 mg/L for arsenic, as an example. Therefore, the most recent reporting limit substitution of 0.005 mg/L is used for this well as for all other wells.

Data at all wells were originally evaluated during 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. However, interwell methods are currently implemented in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells. Power curves were provided along with the previous screening and demonstrated that the selected statistical methods 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.

Summary of Statistical Methods – Detection Monitoring

Georgia EPD Appendix I Constituents:

Semi-Annual Sampling

Interwell Prediction Limits with 1 of 2 resample plan

Constituents Downgradient: 8

Downgradient wells: 16

CCR Appendix III Constituents:

Semi-Annual Sampling

Interwell Prediction Limits with 1 of 2 resample plan

Constituents Downgradient: 7

Downgradient wells: 16

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 false positive rate associated with the parametric limits is based on an annual rate of 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA,

2009), data are analyzed using either parametric or non-parametric prediction limits, along with the following methodology for handling non-detects:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15%, 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. Due to varying detection limits, the following substitution of 0.03 mg/L was made for lithium.
- 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 interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Summary of Background Screening – Georgia EPD Appendix I Constituents – Conducted in August 2019

Outlier Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey's box plot method, several outliers were identified. A summary of those findings was submitted with the August 2019 report. As a general rule, when the most

recent values are identified as outliers, values are not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Additionally, values that were not identified by Tukey's test but that are much higher than the remaining measurements were flagged as appropriate in order to obtain conservative prediction limits that are capable of detecting future changes. As mentioned above, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Testing

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. This step would apply to upgradient wells GWA-7 and GWA-8 only since pooled data from these wells are used to construct interwell prediction limits. While this was not required, when any records of data are truncated for the reasons above, a summary report will be provided to show the date

ranges used in construction of the statistical limits. A summary of the trend analyses was submitted with the screening report.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for all constituents which would suggest intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Summary of Background Screening – CCR Appendices III and IV Parameters – Conducted in March 2019

Outlier and Trend Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. A summary of those findings was included with the screening report. When the most recent values are identified as outliers, values were not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation

Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported non-detects. A summary of all flagged values follows this letter (Figure C).

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

The results of the Sen's Slope/Mann Kendall trend analyses showed a number of statistically significant increasing and decreasing trends for the Appendix III parameters. Most of the statistically significant trends identified, particularly those in upgradient wells GWA-7 and GWA-8 from which data are used in construction of the interwell prediction limits, were relatively low in magnitude when compared to average concentrations. Also, the background period was short in 2019, making it difficult to determine whether an apparent trend represents a long-term change or simply normal year-to-year variation; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The ANOVA identified no variation among upgradient well data for fluoride, making interwell analyses the most appropriate statistical method for this constituent. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS which suggests the use of intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Statistical Analysis of Georgia EPD Appendix I Constituents – February 2023

All Appendix I parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed from carefully screened pooled upgradient well data through February 2023 for antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc (Figure D). The February 2023 sample at each downgradient well is compared to these background limits.

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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed. A summary table and complete graphical results of the interwell prediction limits follow this letter and include a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, GWC-20, and GWC-21
- Barium: GWC-20 and GWC-21

Trend Tests – Appendix I Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient well data 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. When trends are present in upgradient wells it is an indication of natural variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing Trends:

- Arsenic: GWC-15
- Barium: GWC-20

Decreasing Trends:

- Arsenic: GWA-8 (upgradient)
- Barium: GWA-8 (upgradient)

Note that while the trend test identified statistically significant decreasing trend for arsenic in upgradient well GWA-8, the slope is displayed as zero which represents the median slopes of all the possible pairwise slopes. The zero median slopes result from the large number of non-detects in the record, and the negative test statistics result from a few trace values being recorded in the latter part of the records. Both a summary and complete graphical presentation of the trend test results follow this letter.

Statistical Analysis of CCR Appendix III Parameters – February 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using pooled upgradient well data through February 2023 to develop background limits for boron, calcium, chloride, fluoride, pH, sulfate, and TDS (Figure F). 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 would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. The February 2023 sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Summary tables of the prediction limits follow this letter. Exceedances were identified for the following well/constituent pairs:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21
- Chloride: GWC-17

- Fluoride: GWC-17
- pH: GWC-12 (lower limit) and GWC-15 (upper limit)
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, and GWC-21

Trend Tests – Appendix III Exceedances

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen’s Slope/Mann Kendall trend test 99% confidence level along with upgradient wells for the same constituents (Figure G). 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. Such patterns are an indication of variability in groundwater unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing Trends:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-16, GWC-20, and GWC-21
- Sulfate: GWB-5R, GWB-6R, GWC-11, and GWC-16

Decreasing Trends:

- Calcium: GWA-7 (upgradient) and GWC-12
- Chloride: GWA-7 (upgradient)
- Fluoride: GWA-8 (upgradient)
- pH: GWA-7 (upgradient)
- Sulfate: GWA-7, GWA-8 (both upgradient), and GWC-12

Statistical Analysis of Georgia EPD Appendix II and CCR Appendix IV – February 2023

For Appendix II and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix II and IV parameters are reassessed for outliers during each analysis. A historically high reporting limit of 0.025 mg/L for cobalt at upgradient well GWA-7 was previously flagged in order to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective and are more representative of present-day groundwater

quality conditions. No additional outliers were flagged during this analysis. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits (UTLs) are calculated using Sanitas software, from all historical pooled upgradient well data for Appendix II and IV constituents (Figure H). The UTLs serve as site-specific background limits for each constituent. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution, i.e., barium and combined radium 226 + 228. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits are used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix II and IV constituents for this sample event (Figure I).

Confidence Intervals

To complete the statistical comparison of current sampling data to GWPS, confidence intervals were constructed using Sanitas software using data from 2016 through the present for each of the Appendix II and IV constituents in each downgradient well (Figure J). As mentioned above, any well/constituent pairs containing 100% non-detects

since 2016 were not required for statistical analyses. The confidence intervals were then compared to the GWPS as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

In the cases of combined radium at MW-24D and zinc at MW-25D, the parametric lower confidence limits resulted in a negative number. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases and may be found at the end of Figure J. This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

A summary of the confidence intervals follows this letter and exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWC-16 and GWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure K). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- Arsenic: GWC-15

Decreasing trends:

- Arsenic: GWA-7 (upgradient)

SUMMARY

Based on the statistical analyses described in this letter, the following statistical exceedances were noted:

Prediction Limits (Detection Monitoring Parameters)

Georgia EPD Appendix I:

- Arsenic: GWC-15, GWC-16, GWC-20, and GWC-21
- Barium: GWC-20 and GWC-21

CCR Appendix III:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12 (lower limit) and GWC-15 (upper limit)
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, and GWC-21

Confidence Intervals (Assessment Monitoring Parameters)

Georgia EPD Appendix II and CCR Appendix IV:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWC-16 and GWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Kraft's Grumman Road Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects - Appendix I

Analysis Run 4/20/2023 11:54 AM View: 100% NDs AI
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Antimony (mg/L)
MW-23D, MW-24D, MW-25D

Arsenic (mg/L)
GWC-11, MW-23D, MW-24D

Chromium (mg/L)
MW-23D

Selenium (mg/L)
GWC-13, MW-23D, MW-24D, MW-25D

Vanadium (mg/L)
MW-23D

100% Non-Detects Appendix II & IV Downgradient & Assessment

Analysis Run 5/8/2023 10:34 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Antimony (mg/L)

GWC-14, GWC-16, MW-23D, MW-24D, MW-25D

Arsenic (mg/L)

GWC-11, MW-23D, MW-24D

Beryllium (mg/L)

GWC-1, GWC-15, GWC-20, GWC-21, MW-23D, MW-24D

Cadmium (mg/L)

GWB-5R, GWB-6R, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-2, GWC-21, GWC-9, MW-24D

Chromium (mg/L)

MW-23D

Cobalt (mg/L)

GWC-1, GWC-13, GWC-15, GWC-16, GWC-20, GWC-21, MW-23D, MW-24D, MW-25D

Fluoride (mg/L)

GWC-11, MW-24D

Lithium (mg/L)

GWB-6R, GWC-1, GWC-11, GWC-14, GWC-15, GWC-16, GWC-2, GWC-20, GWC-21, GWC-22, MW-23D, MW-24D, MW-25D

Molybdenum (mg/L)

GWC-2, GWC-9, MW-23D

Selenium (mg/L)

GWC-13, GWC-9, MW-23D, MW-24D, MW-25D

Thallium (mg/L)

GWB-6R, GWC-13, GWC-15, GWC-20, GWC-9, MW-23D, MW-24D, MW-25D

Vanadium (mg/L)

MW-23D

Interwell Prediction Limits Appendix I - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	2/2/2023	0.207	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	2/1/2023	0.115	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	2/1/2023	0.389	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	2/2/2023	0.0323	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWC-20	0.1788	n/a	2/1/2023	0.194	Yes	127	-2.485	0.3647	0	None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1788	n/a	2/2/2023	0.196	Yes	127	-2.485	0.3647	0	None	ln(x)	0.0004115	Param Inter 1 of 2

Interwell Prediction Limits Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	2/1/2023	0.00286J	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	2/2/2023	0.00556	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	2/1/2023	0.00295J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	2/1/2023	0.0042J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	2/2/2023	0.00433J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	2/2/2023	0.00261J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	2/2/2023	0.207	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	2/1/2023	0.115	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	2/1/2023	0.389	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	2/2/2023	0.0323	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.1788	n/a	2/2/2023	0.101	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWB-5R	0.1788	n/a	2/1/2023	0.101	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWB-6R	0.1788	n/a	2/1/2023	0.0233	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-1	0.1788	n/a	2/2/2023	0.0466	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-11	0.1788	n/a	2/1/2023	0.146	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-12	0.1788	n/a	2/1/2023	0.0256	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-13	0.1788	n/a	2/1/2023	0.0367	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-14	0.1788	n/a	2/2/2023	0.0617	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-15	0.1788	n/a	2/2/2023	0.0557	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-16	0.1788	n/a	2/1/2023	0.163	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-17	0.1788	n/a	2/1/2023	0.0262	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-2	0.1788	n/a	2/2/2023	0.0461	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-20	0.1788	n/a	2/1/2023	0.194	Yes	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1788	n/a	2/2/2023	0.196	Yes	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-22	0.1788	n/a	2/2/2023	0.0456	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-9	0.1788	n/a	2/1/2023	0.128	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	2/2/2023	0.00502J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	2/1/2023	0.00655J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	2/1/2023	0.00365J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	2/1/2023	0.00503J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2

Interwell Prediction Limits Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-12	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6R	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	2/2/2023	0.00466J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	2/1/2023	0.00187J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	2/1/2023	0.00182J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	2/2/2023	0.0022J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	2/1/2023	0.00333J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	2/2/2023	0.0035J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	2/2/2023	0.00542	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	2/2/2023	0.021	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	2/1/2023	0.0255	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	2/1/2023	0.0201	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	2/2/2023	0.00497J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	2/1/2023	0.00373J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	2/1/2023	0.0056J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	2/1/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	2/2/2023	0.00594J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	2/2/2023	0.00453J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	2/1/2023	0.00361J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	2/1/2023	0.005J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	2/2/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	2/1/2023	0.00526J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	2/2/2023	0.00537J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	2/2/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	2/1/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	2/1/2023	0.0121J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	2/1/2023	0.00334J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	2/1/2023	0.025	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	2/1/2023	0.00583J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2

Trend Tests - Appendix I - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:23 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-8 (bg)	0	-2.702	-2.58	Yes	75	92	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005887	8.433	2.58	Yes	55	45.45	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002887	-9.162	-2.58	Yes	74	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.01413	349	176	Yes	34	0	n/a	n/a	0.01	NP

Trend Tests - Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:23 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	0	0.1807	2.58	No	54	55.56	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.702	-2.58	Yes	75	92	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005887	8.433	2.58	Yes	55	45.45	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.0007971	-1.989	-2.58	No	74	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.01129	135	176	No	34	2.941	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-21	0	-3	-161	No	32	46.88	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0	-0.06147	-2.58	No	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002887	-9.162	-2.58	Yes	74	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.01413	349	176	Yes	34	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	-0.000932	-21	-167	No	33	0	n/a	n/a	0.01	NP

Interwell Prediction Limits Appendix III - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	2/2/2023	91.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	2/1/2023	38.3	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	2/1/2023	60.4	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	2/1/2023	187	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	2/1/2023	67.5	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	2/2/2023	137	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	2/2/2023	131	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	2/1/2023	294	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	2/1/2023	86.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	2/1/2023	183	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	2/2/2023	123	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	2/1/2023	470	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	2/1/2023	0.604	Yes	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	2/1/2023	3.93	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	2/2/2023	6.65	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	2/2/2023	337	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	2/1/2023	190	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	2/1/2023	842	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	2/1/2023	1090	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	2/1/2023	527	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	2/2/2023	220	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	2/1/2023	1160	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	2/1/2023	547	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	2/1/2023	596	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	2/2/2023	447	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2

Interwell Prediction Limits Appendix III - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method	
Boron (mg/L)	GWB-4R	21.8	n/a	2/2/2023	5.35	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	2/1/2023	6.19	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	2/1/2023	8.23	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	2/2/2023	0.599	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	2/1/2023	4.49	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	2/1/2023	10.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	2/1/2023	0.208	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	2/2/2023	0.0451	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	2/2/2023	0.679	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	2/1/2023	17.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	2/1/2023	1.83	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	2/2/2023	0.022	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	2/1/2023	11.9	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	2/2/2023	5.15	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	2/2/2023	0.302	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	2/1/2023	0.0186	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	2/2/2023	91.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	2/1/2023	38.3	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	2/1/2023	60.4	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	2/2/2023	35.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	2/1/2023	187	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	2/1/2023	67.5	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	2/1/2023	2.89	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	2/2/2023	137	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	2/2/2023	131	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	2/1/2023	294	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	2/1/2023	86.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	2/2/2023	0.143J	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	2/1/2023	183	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	2/2/2023	123	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	2/2/2023	21.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	2/1/2023	4.44	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	2/2/2023	82.4	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	2/1/2023	172	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	2/1/2023	51.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	2/2/2023	6.47	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	2/1/2023	138	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	2/1/2023	64.5	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	2/1/2023	6.17	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	2/2/2023	18.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	2/2/2023	4.69	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	2/1/2023	47.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	2/1/2023	470	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	2/2/2023	5.42	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	2/1/2023	15.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	2/2/2023	23.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	2/2/2023	18.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	2/1/2023	18.8	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	2/1/2023	0.0546J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	2/1/2023	0.231	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	2/1/2023	0.0423J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	2/1/2023	0.0702J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	2/1/2023	0.604	Yes	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	2/1/2023	0.0994J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	2/2/2023	5.99	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	2/1/2023	5.81	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	2/1/2023	5.54	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	2/2/2023	5.78	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2

Interwell Prediction Limits Appendix III - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-11	6.43	4.23	2/1/2023	4.71	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	2/1/2023	3.93	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.23	2/1/2023	4.86	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	2/2/2023	5.98	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	2/2/2023	6.65	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.23	2/1/2023	5.23	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	2/1/2023	4.74	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	2/2/2023	4.6	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	2/1/2023	6.01	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	2/2/2023	5.71	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	2/2/2023	4.63	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	2/1/2023	4.57	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	2/2/2023	337	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	2/1/2023	190	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	2/1/2023	842	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	2/2/2023	35.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	2/1/2023	1090	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	2/1/2023	527	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	2/1/2023	34.5	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	2/2/2023	220	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	2/2/2023	34.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	2/1/2023	1160	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	2/1/2023	547	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	2/2/2023	11.9	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	2/1/2023	596	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	2/2/2023	447	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	2/2/2023	71.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	2/1/2023	25.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	3660	n/a	2/2/2023	1180	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	3660	n/a	2/1/2023	1240	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	3660	n/a	2/1/2023	1570	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	3660	n/a	2/2/2023	166	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	3660	n/a	2/1/2023	2010	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	3660	n/a	2/1/2023	694	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	3660	n/a	2/1/2023	37	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	3660	n/a	2/2/2023	566	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	3660	n/a	2/2/2023	440	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	3660	n/a	2/1/2023	2010	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	3660	n/a	2/1/2023	1470	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	3660	n/a	2/2/2023	5ND	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	3660	n/a	2/1/2023	2290	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	3660	n/a	2/2/2023	775	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	3660	n/a	2/2/2023	113	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	3660	n/a	2/1/2023	59	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2

Trend Tests - Appendix III Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:33 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-7 (bg)	-0.5878	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.76	99	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	9.584	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	7.457	94	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	18.29	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-8.464	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.72	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	28.25	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	17.02	70	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-21.96	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.009757	-88	-81	Yes	20	15	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.04349	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.11	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.41	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	48.12	79	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	109.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	102.1	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-114.2	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	115	105	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Appendix III Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:33 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-7 (bg)	-0.5878	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-0.9647	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.76	99	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	9.584	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	7.457	94	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	18.29	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-8.464	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.578	13	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.447	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.72	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-2.95	-19	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	28.25	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	17.02	70	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-21.96	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.3413	-32	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-59.36	-42	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.008919	-36	-81	No	20	30	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.009757	-88	-81	Yes	20	15	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1267	-71	-81	No	20	5	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.04349	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.02934	53	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	-0.009155	-27	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04584	49	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.11	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.41	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	6.293	31	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	48.12	79	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	109.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	102.1	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-114.2	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-34.54	-45	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	115	105	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	5.415	2	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	98.16	49	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	45.44	64	68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:26 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	129	95.35	n/a	0.001338	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0287	n/a	n/a	n/a	129	76.74	n/a	0.001338	NP Inter(NDs)
Barium (mg/L)	n/a	0.1659	n/a	n/a	n/a	127	0	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.0017	n/a	n/a	n/a	49	51.02	n/a	0.08099	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	47	95.74	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	n/a	n/a	128	61.72	n/a	0.001408	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0102	n/a	n/a	n/a	47	46.81	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	11.77	n/a	n/a	n/a	33	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.49	n/a	n/a	n/a	40	22.5	n/a	0.1285	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	125	74.4	n/a	0.001642	NP Inter(NDs)
Lithium (mg/L)	n/a	0.01	n/a	n/a	n/a	36	75	n/a	0.1578	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	30	83.33	n/a	0.2146	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0098	n/a	n/a	n/a	36	86.11	n/a	0.1578	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	n/a	n/a	129	82.95	n/a	0.001338	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	68	94.12	n/a	0.03056	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.425	n/a	n/a	n/a	123	61.79	n/a	0.00182	NP Inter(NDs)
Zinc (mg/L)	n/a	0.16	n/a	n/a	n/a	121	28.93	n/a	0.002016	NP Inter(normality)

GRUMMAN ROAD LANDFILL GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.029	0.029
Barium, Total (mg/L)	2		0.17	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.01	0.01
Combined Radium, Total (pCi/L)	5		11.77	11.77
Fluoride, Total (mg/L)	4		0.49	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.0098	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.43	0.43
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1781	0.08861	0.029	Yes	22	0.1333	0.08334	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08509	0.06462	0.029	Yes	23	0.07485	0.01957	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3623	0.2809	0.029	Yes	22	0.3216	0.07588	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2038	0.1297	0.1	Yes	18	0.1668	0.06128	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3563	0.1467	0.1	Yes	18	0.2696	0.1909	0	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	22	0.002688	0.0008192	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	22	0.002767	0.0007547	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	22	0.002602	0.0008878	81.82	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00064	0.006	No	22	0.001912	0.001225	54.55	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	22	0.002891	0.0005117	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	22	0.002945	0.0002558	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	22	0.002802	0.0006374	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	22	0.002859	0.0004584	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	22	0.002843	0.000543	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	22	0.002879	0.0005692	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	22	0.002552	0.0009192	77.27	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	22	0.002815	0.00063	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003179	0.002012	0.029	No	22	0.002596	0.001087	9.091	None	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.002121	0.001131	0.029	No	22	0.002554	0.001687	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003572	0.001552	0.029	No	22	0.008281	0.009537	22.73	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.005204	0.002437	0.029	No	21	0.004743	0.005371	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	22	0.004268	0.001597	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	22	0.004485	0.001368	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002249	0.001669	0.029	No	23	0.002615	0.001233	17.39	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.1781	0.08861	0.029	Yes	22	0.1333	0.08334	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08509	0.06462	0.029	Yes	23	0.07485	0.01957	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	22	0.002951	0.001929	45.45	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	22	0.004406	0.001533	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3623	0.2809	0.029	Yes	22	0.3216	0.07588	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0059	0.0031	0.029	No	22	0.007455	0.00814	31.82	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0012	0.029	No	22	0.003435	0.00198	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	22	0.004811	0.0008869	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	6	0.00432	0.001666	83.33	None	No	0.0155	NP (NDs)
Barium (mg/L)	GWB-4R	0.098	0.076	2	No	22	0.09272	0.02344	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1404	0.08761	2	No	22	0.1176	0.05498	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.0233	2	No	22	0.0654	0.04176	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05668	0.05085	2	No	22	0.05376	0.005427	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1232	0.07658	2	No	22	0.0999	0.04345	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.023	0.017	2	No	22	0.0201	0.00464	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02962	0.02218	2	No	22	0.0259	0.006931	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.026	2	No	23	0.04505	0.02694	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05055	0.04079	2	No	22	0.04567	0.00909	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1648	0.08061	2	No	21	0.1227	0.07628	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.09677	0.04565	2	No	22	0.0767	0.05472	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.049	2	No	21	0.05261	0.007226	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.202	0.1036	2	No	22	0.1755	0.1167	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1194	0.05978	2	No	22	0.0979	0.06422	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.08895	0.05783	2	No	22	0.07339	0.02899	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.242	0.1755	2	No	22	0.2088	0.06196	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.079	0.06	2	No	5	0.0735	0.007649	0	None	No	0.031	NP (normality)
Barium (mg/L)	MW-24D	0.04917	0.02063	2	No	5	0.0349	0.008516	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03019	0.01977	2	No	5	0.02498	0.003108	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	18	0.0003833	0.0001823	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.000099	0.004	No	18	0.0002579	0.0001711	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	18	0.0004498	0.0001462	88.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	18	0.0004748	0.0001068	94.44	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007441	0.0005215	0.004	No	18	0.0006504	0.0002093	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	18	0.0004754	0.0001042	94.44	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	18	0.0004307	0.0001597	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	18	0.0002686	0.0002133	44.44	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.002582	0.001653	0.004	No	18	0.002174	0.0008353	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.000088	0.004	No	19	0.0003777	0.0001913	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	18	0.000352	0.0001938	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	18	0.0002369	0.00004932	5.556	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	5	0.0004168	0.000186	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.0002	0.005	No	18	0.00081	0.0003667	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	18	0.0008983	0.0002959	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005911	0.0002908	0.005	No	18	0.0004409	0.0002482	5.556	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.00017	0.005	No	18	0.0006772	0.0004171	61.11	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.0002	0.005	No	18	0.0008617	0.0003185	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	18	0.0005583	0.0004179	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	5	0.000854	0.0003265	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	GWB-4R	0.00789	0.003572	0.1	No	22	0.006219	0.004278	4.545	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.003984	0.001154	0.1	No	22	0.00807	0.01486	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006246	0.002384	0.1	No	22	0.005105	0.004895	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0024	0.0017	0.1	No	22	0.002568	0.001376	13.64	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00092	0.1	No	22	0.005049	0.004613	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.0028	0.00091	0.1	No	22	0.00362	0.004021	27.27	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	22	0.006285	0.004577	59.09	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0008	0.1	No	23	0.005246	0.004658	47.83	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	22	0.0046	0.004199	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	23	0.005333	0.004573	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	22	0.004523	0.004342	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	22	0.006642	0.004548	63.64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	22	0.004596	0.004293	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0007	0.1	No	22	0.005784	0.004729	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	22	0.006154	0.004732	59.09	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	22	0.00485	0.004398	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	5	0.008138	0.004164	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	5	0.00832	0.003757	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	18	0.001809	0.00202	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.0057	0.002	0.01	No	18	0.005289	0.005284	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0228	0.0049	0.01	No	18	0.0117	0.0181	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.000646	0.01	No	18	0.00355	0.002117	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001214	0.0007818	0.01	No	18	0.0009977	0.0003568	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.005269	0.002871	0.01	No	18	0.004213	0.002052	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.01	No	19	0.0008621	0.0002887	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.01	No	18	0.0009133	0.0001723	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00096	0.01	No	18	0.001293	0.0004063	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.44	11.77	No	18	3.597	1.328	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.797	2.368	11.77	No	18	3.149	1.321	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.802	2.94	11.77	No	18	3.871	1.538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.305	1.482	11.77	No	18	1.893	0.6801	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.401	3.541	11.77	No	18	4.971	2.363	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.802	1.753	11.77	No	18	2.277	0.867	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.632	0.8994	11.77	No	18	1.266	0.6052	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.457	0.7427	11.77	No	18	1.1	0.5905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.014	1.116	11.77	No	18	1.565	0.7426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.768	1.81	11.77	No	18	2.329	0.8481	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.795	2.708	11.77	No	18	3.252	0.8987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.09	0.725	11.77	No	18	0.9065	0.3777	0	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.849	2.479	11.77	No	18	3.664	1.959	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.573	1.394	11.77	No	18	1.983	0.9744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.026	3.195	11.77	No	18	4.786	2.269	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.671	2.12	11.77	No	18	3.015	1.535	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.475	0.8806	11.77	No	5	1.678	0.4759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.54	0.36	11.77	No	5	1.738	1.278	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	MW-25D	3.093	0.01701	11.77	No	5	1.081	1.115	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.5	0.17	4	No	20	0.4238	0.2602	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	20	0.08557	0.03939	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	20	0.1165	0.05759	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.051	4	No	20	0.1046	0.03727	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.6991	0.2729	4	No	20	0.486	0.3753	5	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	20	0.1143	0.1043	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.21	0.1	4	No	20	0.164	0.1216	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	20	0.128	0.09283	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.11	0.1	4	No	20	0.1714	0.2006	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.191	0.5773	4	No	20	0.8843	0.5406	5	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.083	4	No	20	0.1222	0.1193	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	20	0.09215	0.02677	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	20	0.09855	0.006485	95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	20	0.0935	0.023	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2151	0.08774	4	No	20	0.1955	0.218	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.1	0.0586	4	No	6	0.08962	0.01734	66.67	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1785	0.06886	4	No	6	0.1237	0.03989	0	None	No	0.01	Param.
Lead (mg/L)	GWB-4R	0.003335	0.0007709	0.015	No	21	0.00319	0.002703	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	22	0.001256	0.0008858	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	22	0.001158	0.0008869	50	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	22	0.001653	0.0007538	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.00042	0.00021	0.015	No	22	0.0007368	0.0007953	27.27	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	22	0.001041	0.001069	40.91	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00017	0.015	No	22	0.001072	0.0008528	40.91	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	23	0.001687	0.0007028	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	22	0.00116	0.0009438	54.55	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	23	0.001029	0.0009515	47.83	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00015	0.015	No	22	0.001351	0.0008933	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	22	0.001495	0.0008459	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	22	0.001573	0.0008056	77.27	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00016	0.015	No	22	0.001319	0.0009233	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007822	0.000301	0.015	No	22	0.0009668	0.0008239	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.00012	0.015	No	22	0.001255	0.0009247	59.09	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	5	0.001611	0.0008689	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	5	0.001619	0.0008524	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	5	0.001619	0.0008519	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	GWB-4R	0.015	0.0042	0.04	No	18	0.01034	0.005251	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	18	0.01981	0.01316	61.11	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	18	0.01388	0.01484	44.44	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	18	0.02676	0.009436	88.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006677	0.005134	0.04	No	18	0.005906	0.001275	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0022	0.0017	0.04	No	17	0.003447	0.004353	11.76	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	15	0.0001833	0.0000452	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	16	0.0001867	0.00003645	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	15	0.0001829	0.00004648	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	15	0.0001827	0.00004713	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	15	0.0001887	0.00003044	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	15	0.000184	0.00004372	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.15	0.024	0.1	No	18	0.08587	0.06029	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	18	0.0009939	0.00008925	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.00097	0.1	No	18	0.006551	0.004468	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1327	0.05591	0.1	No	18	0.1008	0.06643	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.0018	0.1	No	18	0.007983	0.003891	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	18	0.0009558	0.0001874	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	18	0.001256	0.001084	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01504	0.004822	0.1	No	18	0.01105	0.009367	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1078	0.08837	0.1	No	18	0.09809	0.01607	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2038	0.1297	0.1	Yes	18	0.1668	0.06128	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.003	0.1	No	18	0.00636	0.003478	44.44	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3563	0.1467	0.1	Yes	18	0.2696	0.1909	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05583	0.02194	0.1	No	18	0.03888	0.02801	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	18	0.000963	0.000157	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.003563	0.0008934	0.1	No	6	0.002228	0.0009718	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.001311	0.0007407	0.1	No	6	0.001077	0.0002205	50	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GWB-4R	0.00398	0.002723	0.05	No	22	0.004155	0.001238	40.91	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	22	0.004785	0.001159	77.27	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.0023	0.05	No	22	0.0087	0.009991	54.55	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	22	0.003433	0.004507	9.091	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.008498	0.003621	0.05	No	22	0.00794	0.005863	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	22	0.004518	0.001064	81.82	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004322	0.003011	0.05	No	23	0.003666	0.001253	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.004789	0.002124	0.05	No	22	0.005096	0.002846	45.45	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.005153	0.003335	0.05	No	23	0.004244	0.001738	8.696	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	22	0.003682	0.001726	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	22	0.004795	0.0007013	90.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	22	0.003919	0.001634	68.18	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01918	0.01015	0.05	No	22	0.01467	0.008413	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	22	0.004405	0.001315	81.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	18	0.001786	0.0006241	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	18	0.001798	0.000589	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	18	0.001675	0.0007468	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	18	0.001173	0.0009521	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.00014	0.002	No	18	0.001193	0.0009288	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	18	0.001785	0.0006257	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	18	0.001784	0.000629	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	18	0.001361	0.0009299	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	18	0.001892	0.0004596	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	18	0.001471	0.0008777	72.22	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0371	0.0037	0.43	No	17	0.0184	0.0166	5.882	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWB-5R	0.0107	0.004383	0.43	No	17	0.009082	0.008465	5.882	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02616	0.008613	0.43	No	17	0.02248	0.0241	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.005859	0.004088	0.43	No	17	0.004974	0.001413	11.76	None	No	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00481	0.0021	0.43	No	17	0.003944	0.002976	17.65	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.0059	0.0039	0.43	No	17	0.004999	0.001717	11.76	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-13	0.02	0.0029	0.43	No	17	0.01513	0.007979	70.59	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01622	0.008095	0.43	No	20	0.01216	0.007157	15	None	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.01	0.0022	0.43	No	19	0.00501	0.00358	31.58	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	20	0.01256	0.01923	20	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.01	0.0026	0.43	No	17	0.006058	0.003534	41.18	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.0045	0.43	No	17	0.01805	0.005509	88.24	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.01	0.0025	0.43	No	19	0.005096	0.003178	26.32	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.00418	0.002548	0.43	No	17	0.005119	0.003062	23.53	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-22	0.02	0.002	0.43	No	17	0.01282	0.008899	58.82	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.00514	0.43	No	17	0.01694	0.006862	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	5	0.01683	0.007093	80	Kaplan-Meier	No	0.031	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	5	0.01648	0.007871	80	Kaplan-Meier	No	0.031	NP (NDs)
Zinc (mg/L)	GWB-4R	0.02	0.0052	0.16	No	17	0.01168	0.006834	35.29	None	No	0.01	NP (normality)
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	17	0.01612	0.007325	76.47	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.0121	0.0036	0.16	No	17	0.008735	0.003916	52.94	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-1	0.02	0.00578	0.16	No	17	0.01554	0.007295	70.59	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.004	0.16	No	17	0.01517	0.007754	70.59	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.01	0.0025	0.16	No	17	0.006332	0.005993	23.53	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.037	0.0027	0.16	No	17	0.02072	0.01765	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	20	0.01698	0.006369	80	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	19	0.019	0.005796	84.21	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	20	0.01393	0.007989	60	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01187	0.006878	0.16	No	17	0.009372	0.003981	11.76	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.056	0.005	0.16	No	17	0.01676	0.01274	58.82	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	19	0.01876	0.005791	78.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.0071	0.16	No	17	0.0147	0.007677	64.71	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0057	0.16	No	17	0.01362	0.00742	52.94	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	17	0.01046	0.008594	29.41	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01246	0.004661	0.16	No	5	0.00988	0.001974	40	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	5	0.01454	0.007957	60	Kaplan-Meier	No	0.031	NP (NDs)
Zinc (mg/L)	MW-25D	0.051	0.0054	0.16	No	5	0.0225	0.01702	40	None	No	0.031	NP (selected)

Trend Tests - Appendix IV - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	-0.001187	-142	-92	Yes	22	27.27	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03313	181	92	Yes	22	0	n/a	n/a	0.01	NP

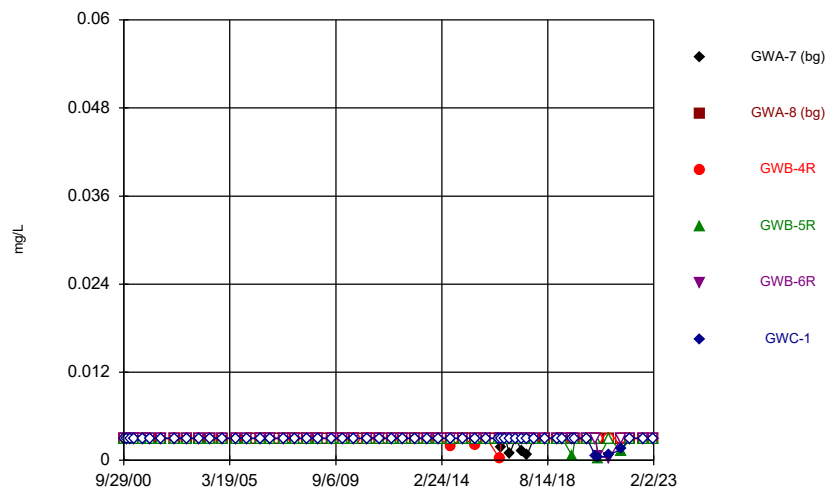
Trend Tests - Appendix IV - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	-0.001187	-142	-92	Yes	22	27.27	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	34	98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03313	181	92	Yes	22	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	0.004368	87	98	No	23	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.006929	37	92	No	22	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-8	-68	No	18	72.22	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-16	0.01332	48	68	No	18	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-20	0.02137	13	68	No	18	0	n/a	n/a	0.01	NP

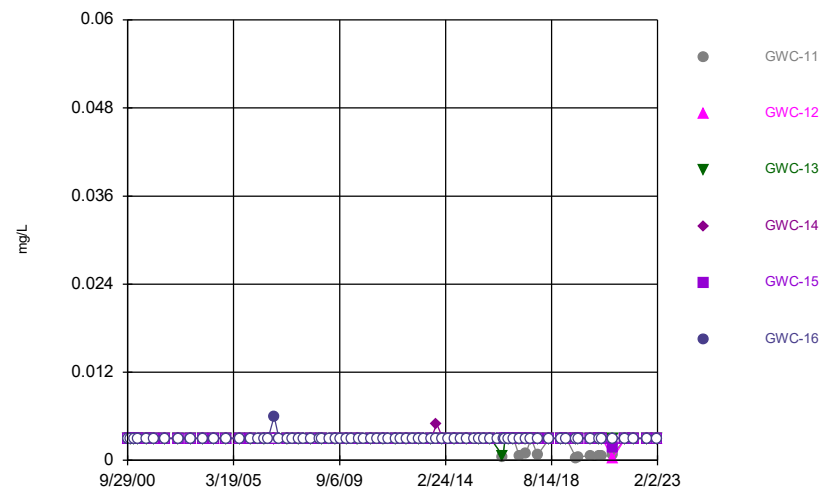
FIGURE A.

Time Series



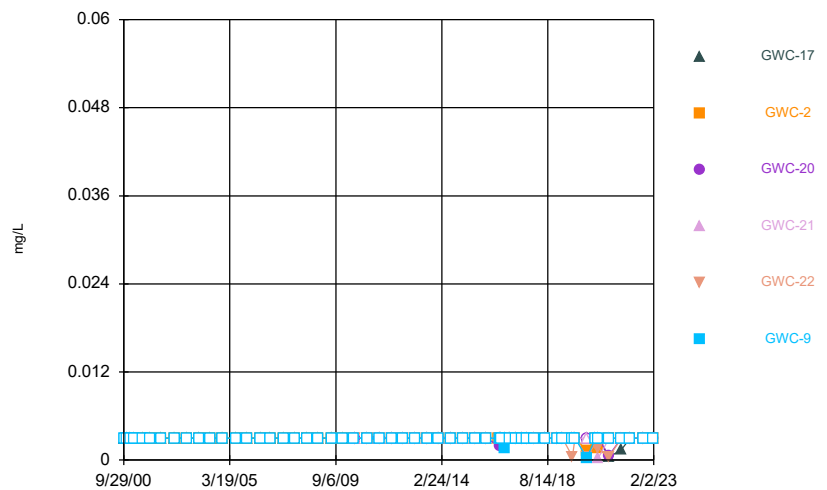
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



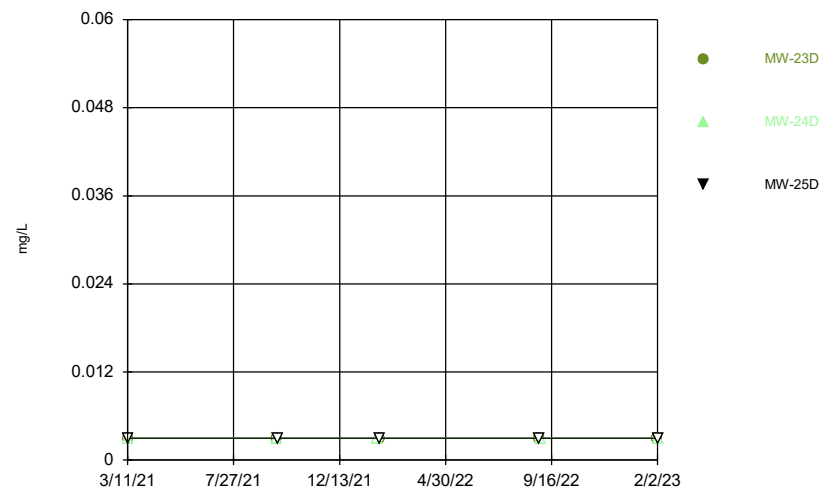
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



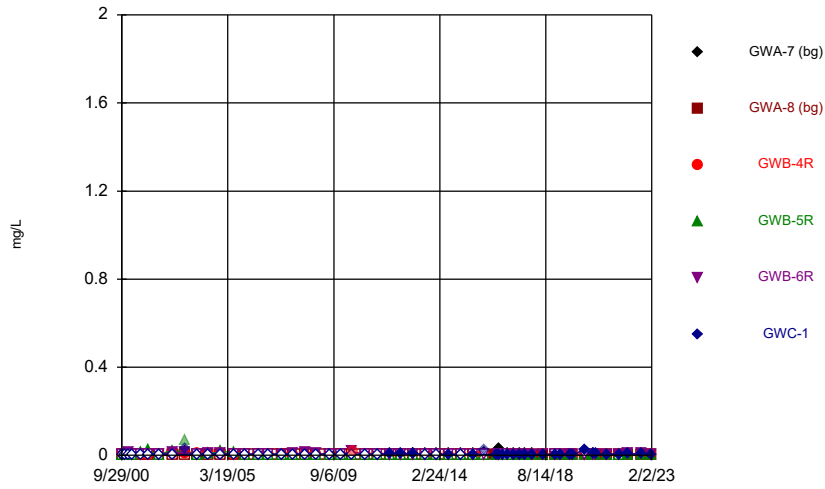
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Time Series



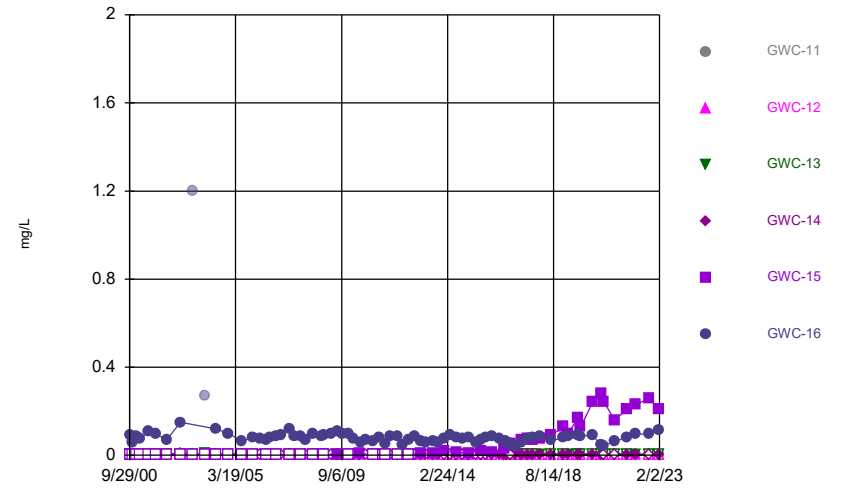
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Time Series



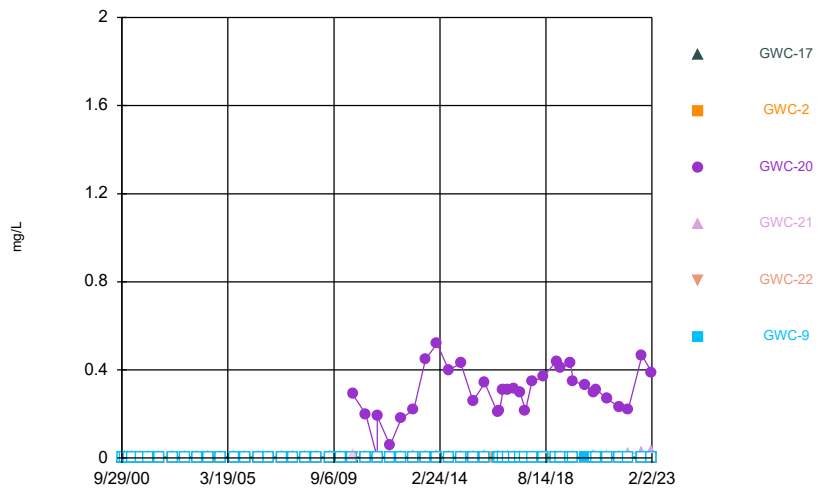
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



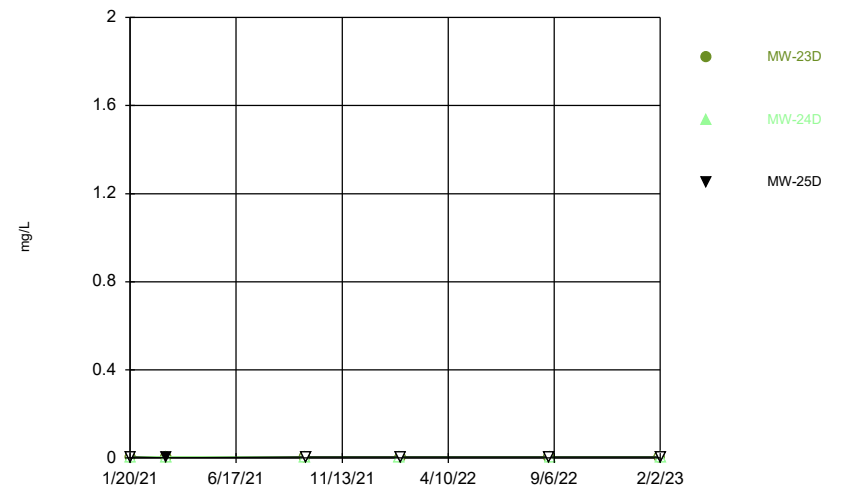
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Time Series



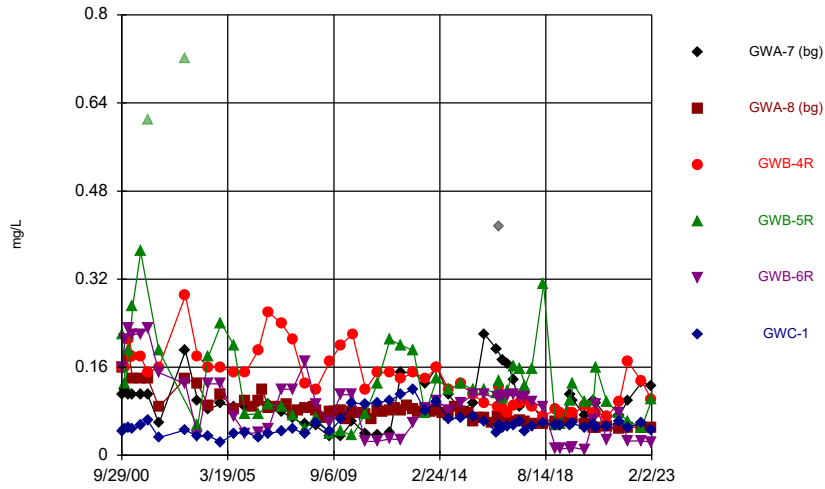
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

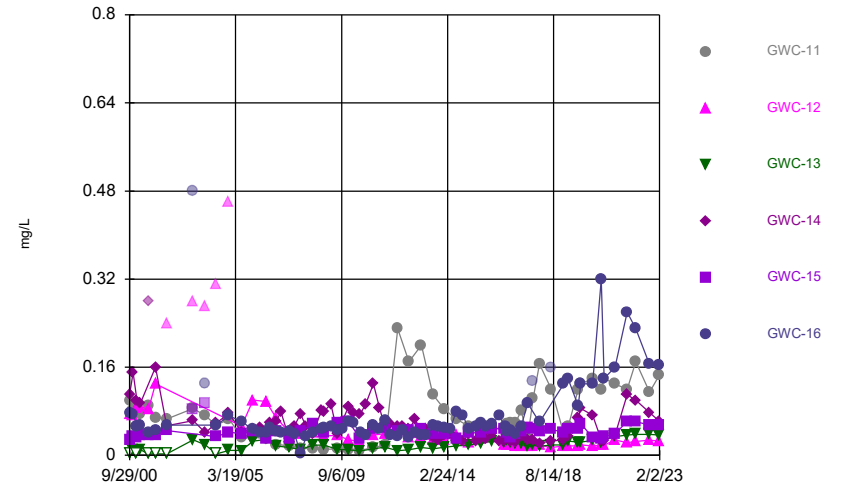
Time Series



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

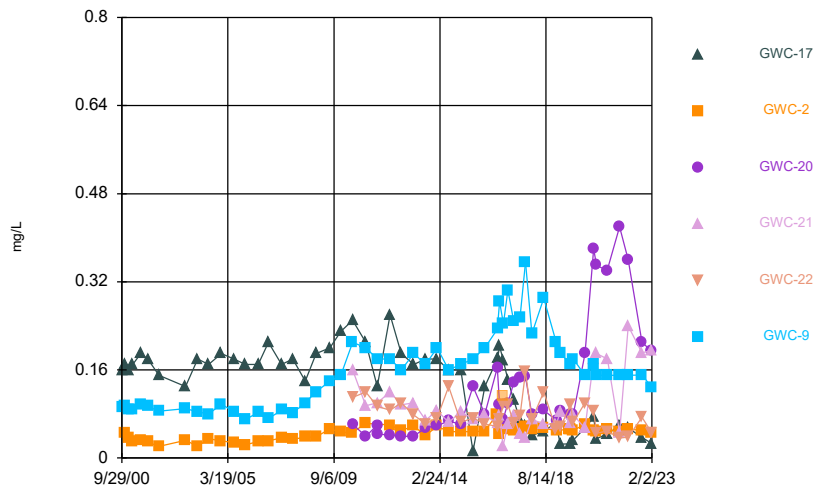
Hollow symbols indicate censored values.

Time Series



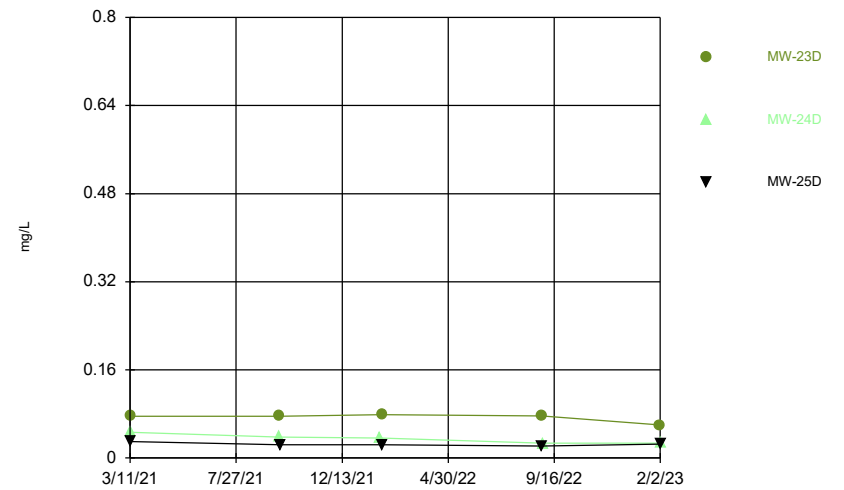
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Time Series



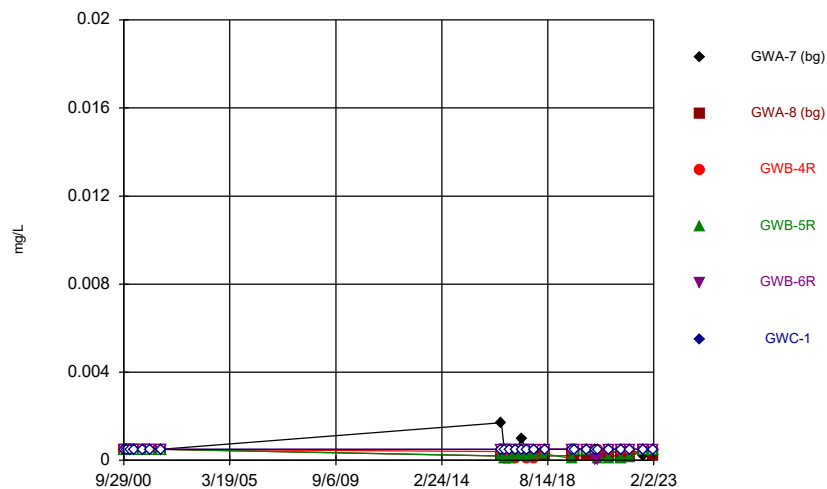
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Time Series



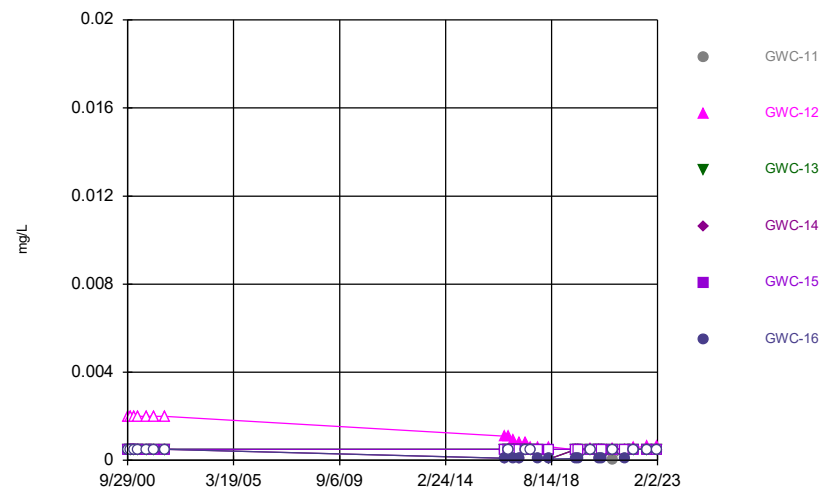
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Time Series



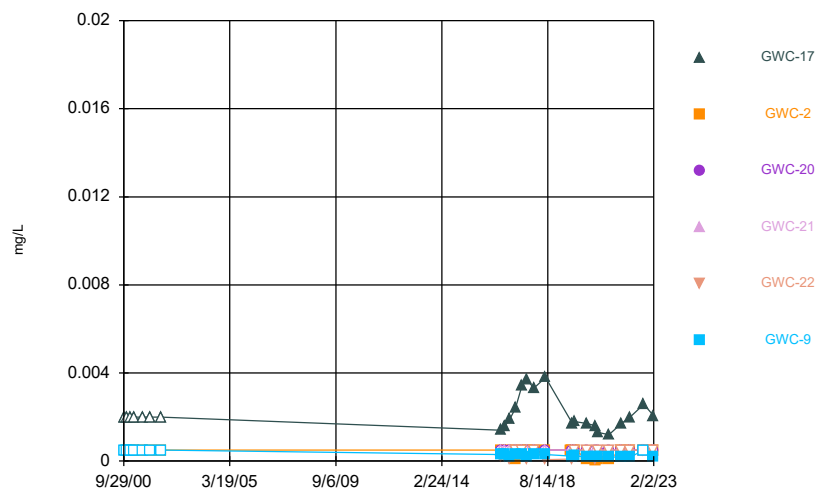
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Time Series



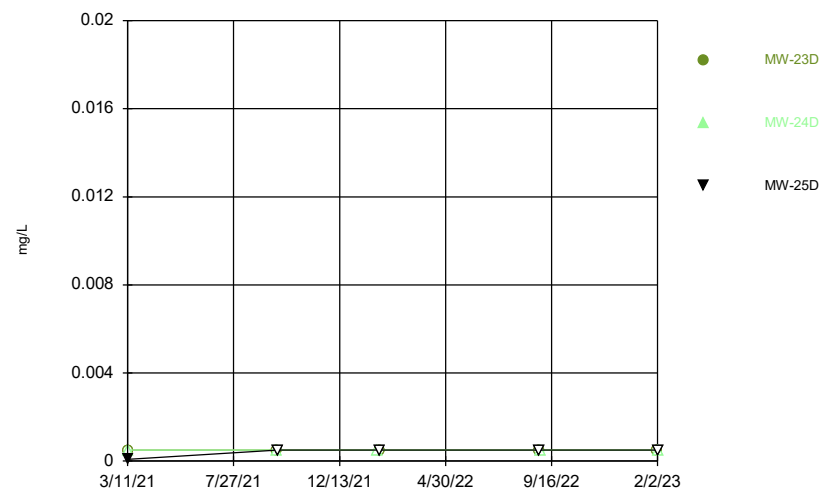
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Time Series



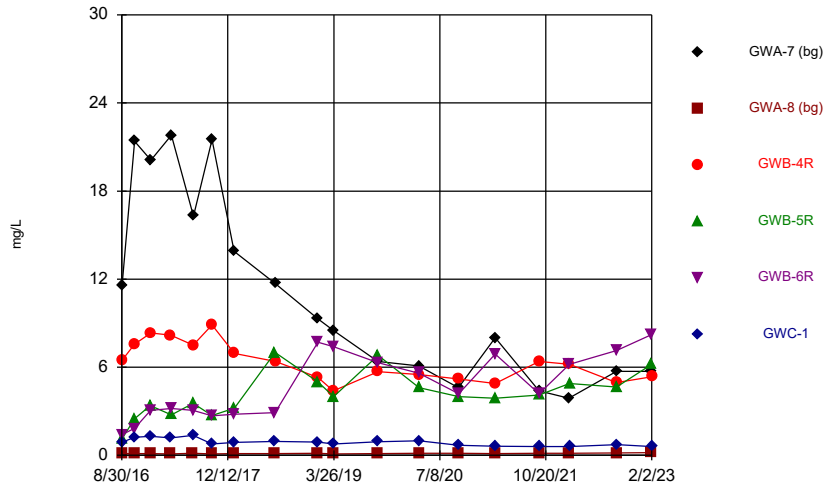
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Time Series



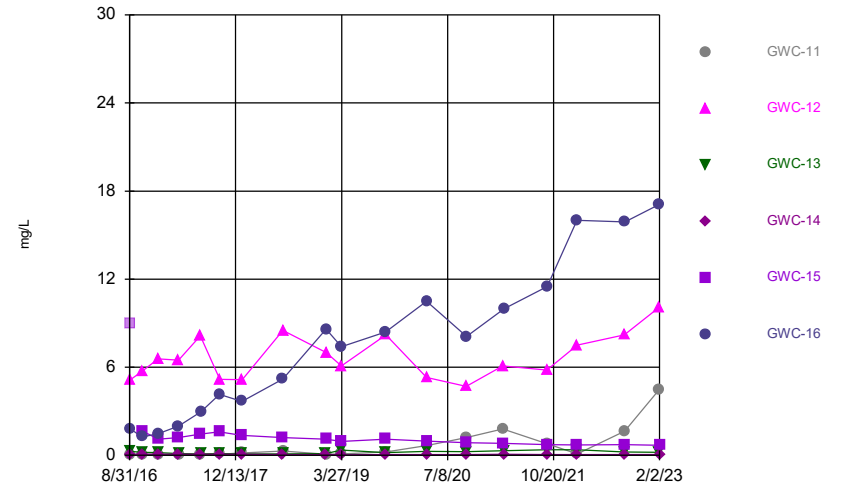
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Time Series



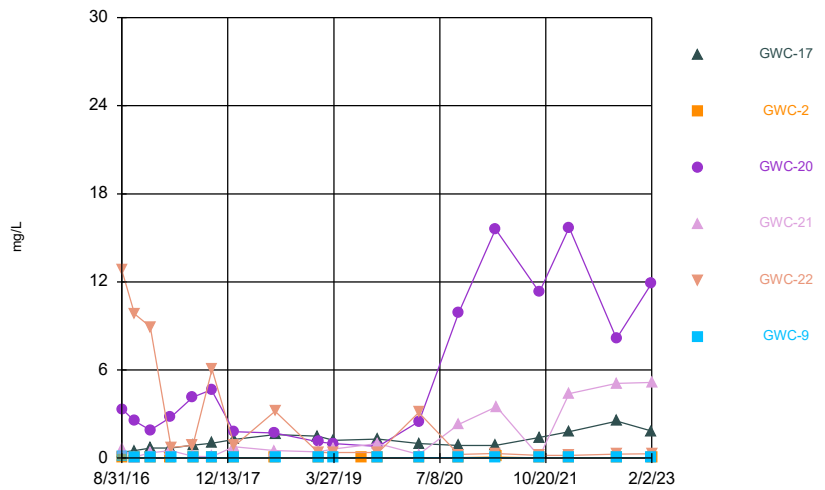
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Time Series



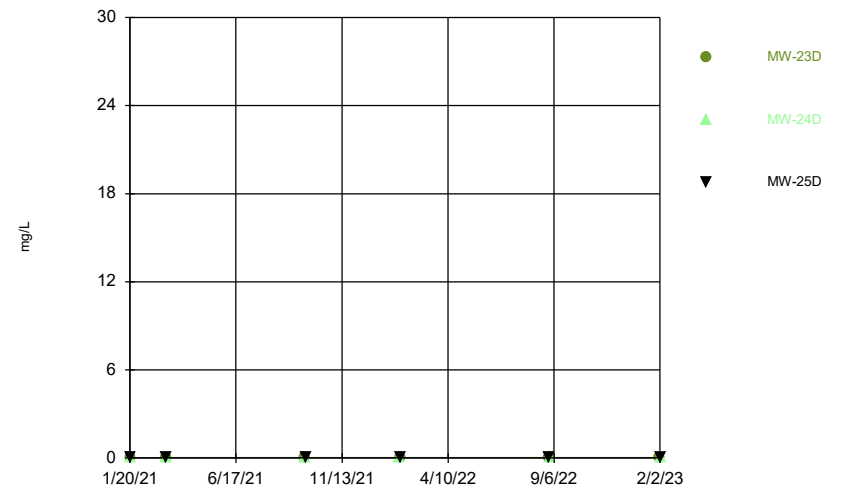
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Time Series



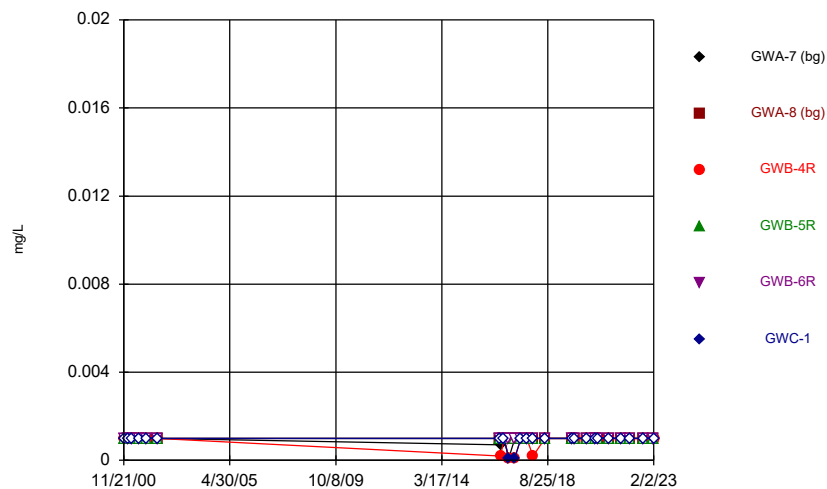
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Time Series



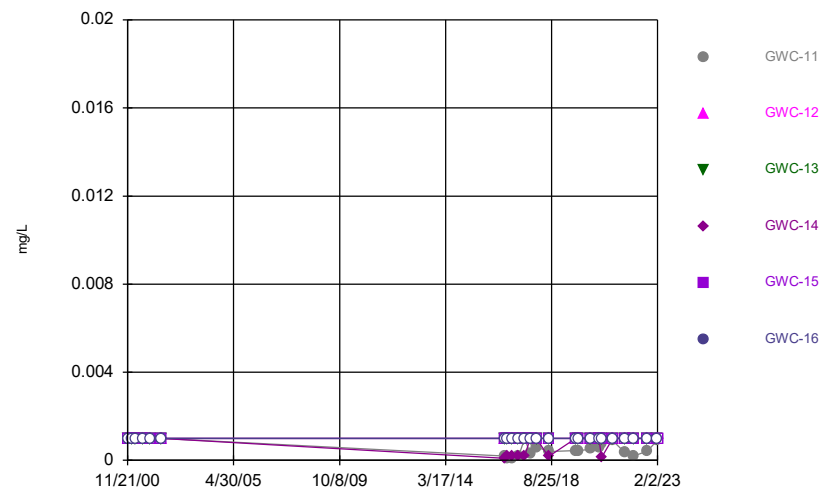
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Time Series



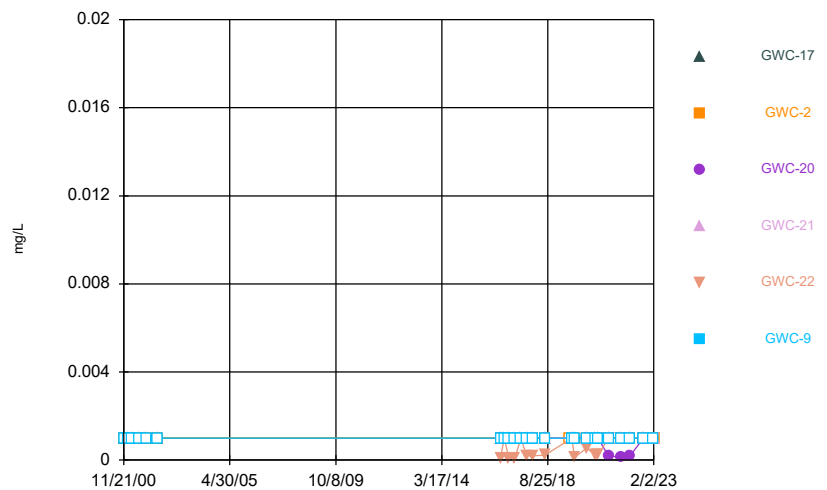
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Time Series



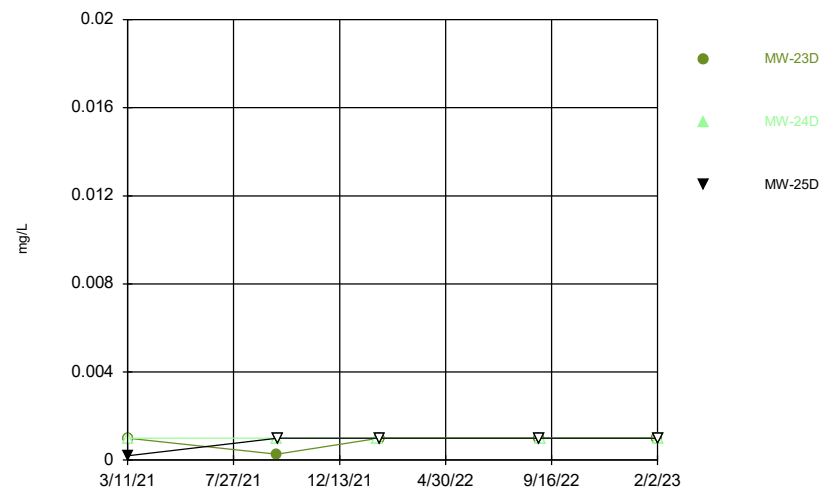
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Time Series



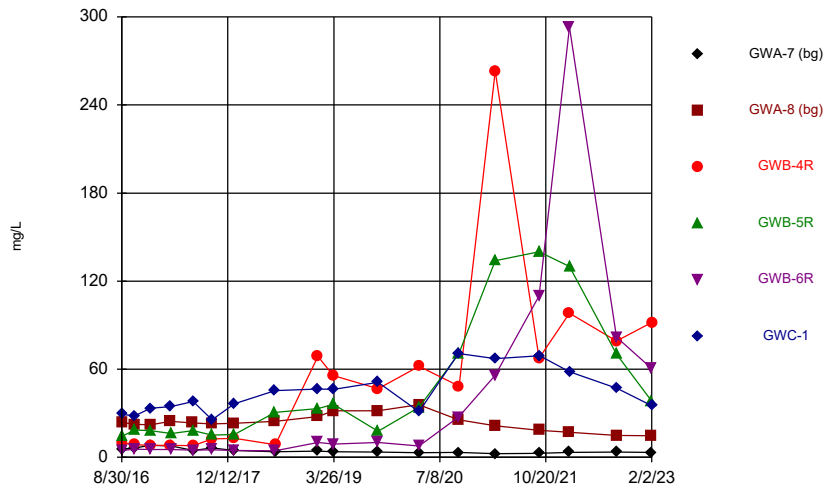
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Time Series



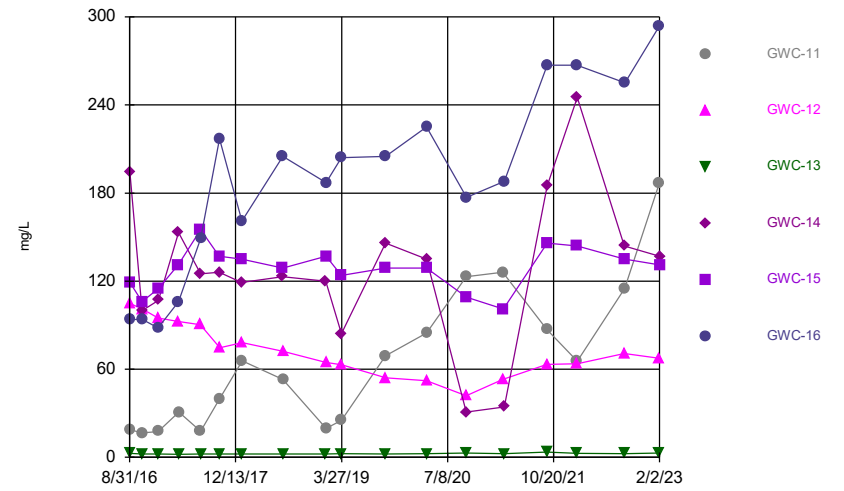
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Time Series



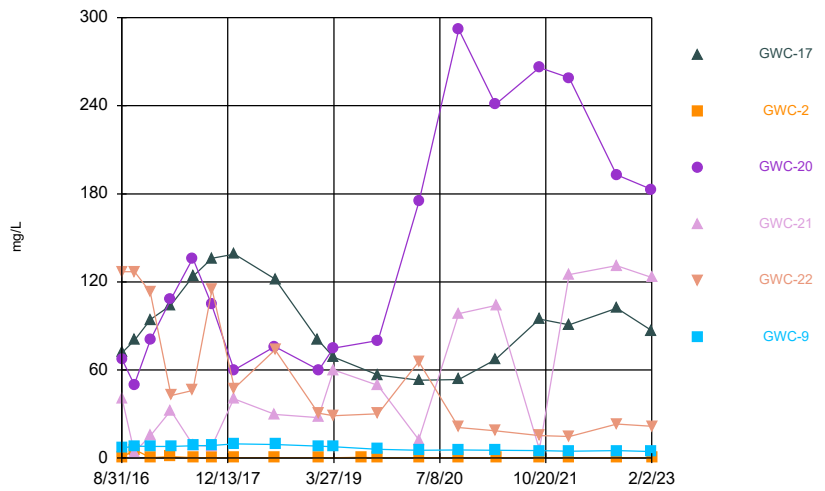
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Time Series



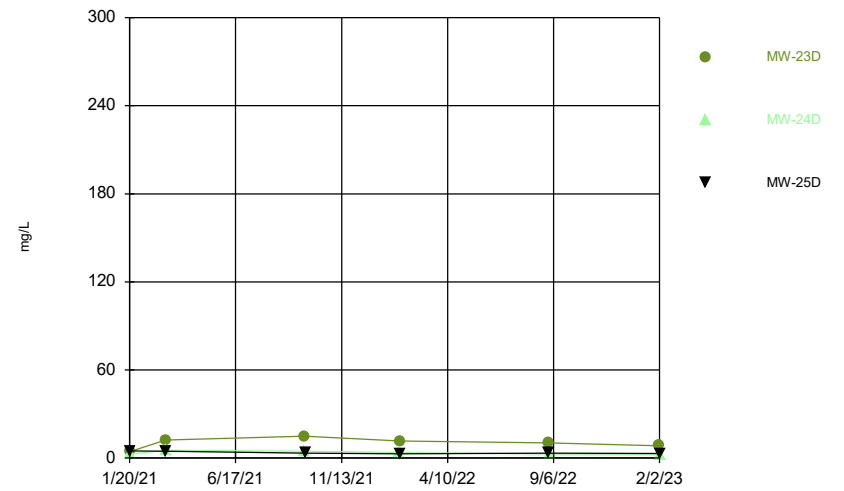
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Time Series



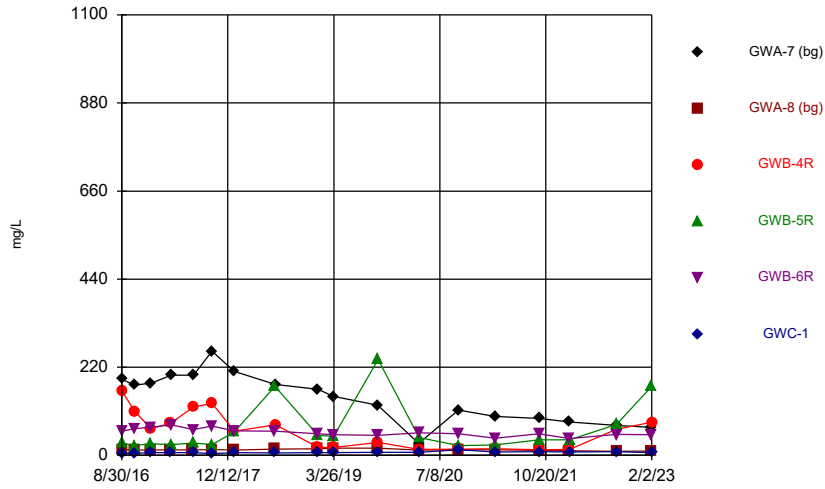
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Time Series



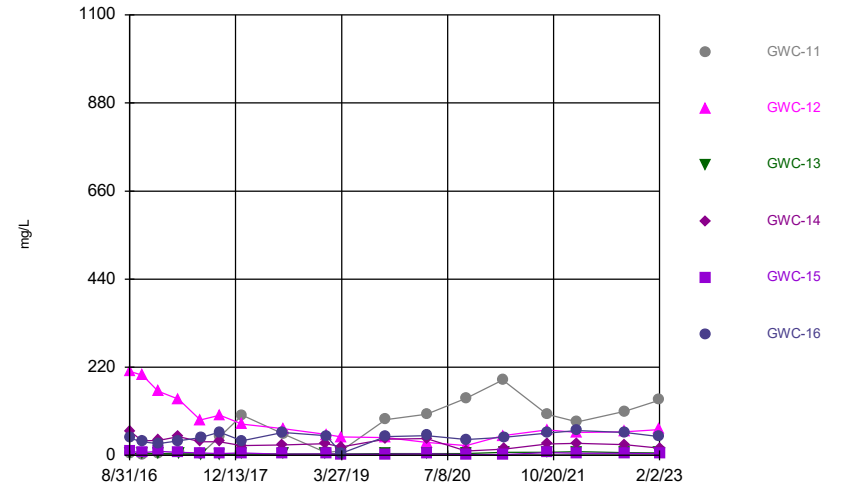
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Time Series



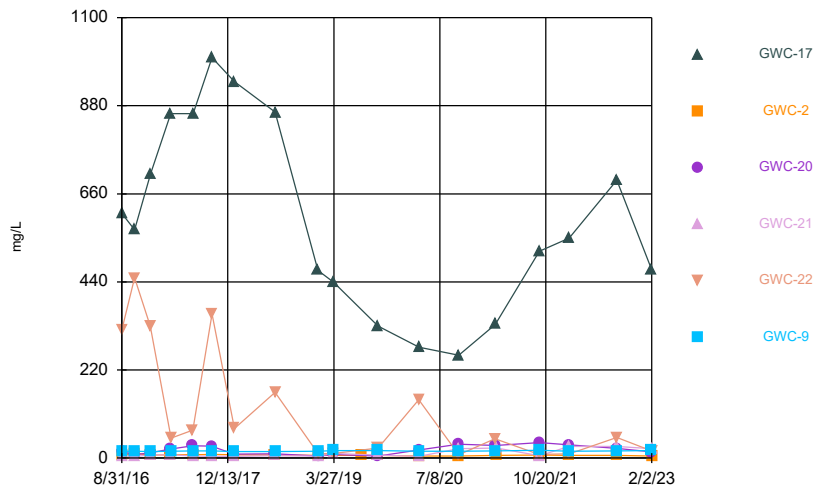
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Time Series



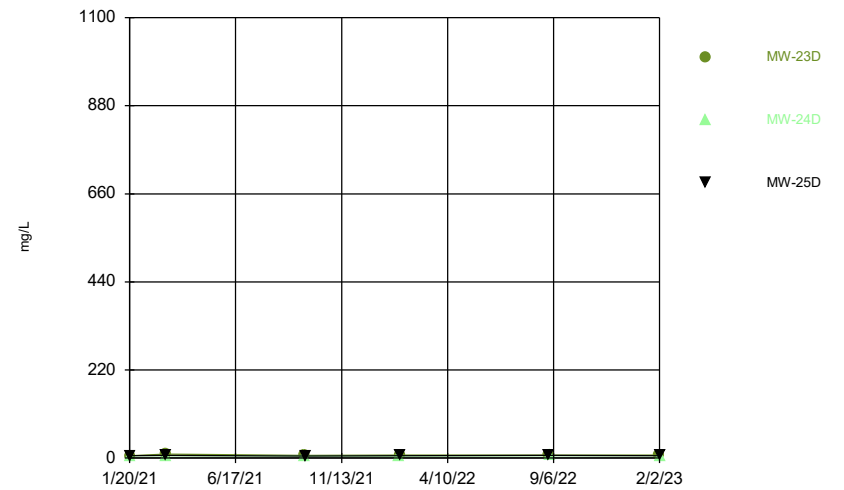
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Time Series



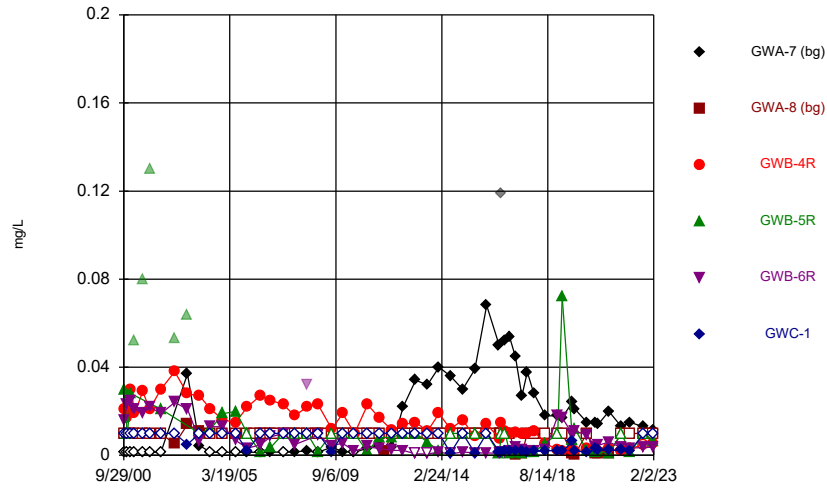
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Time Series



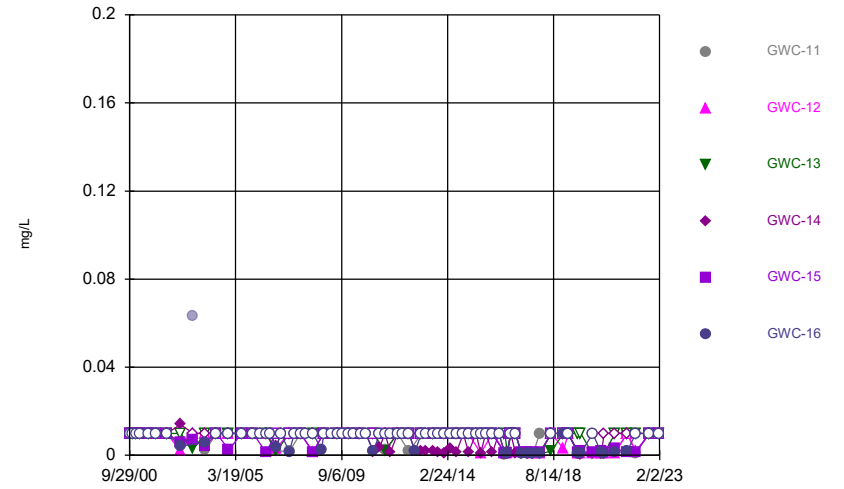
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Time Series



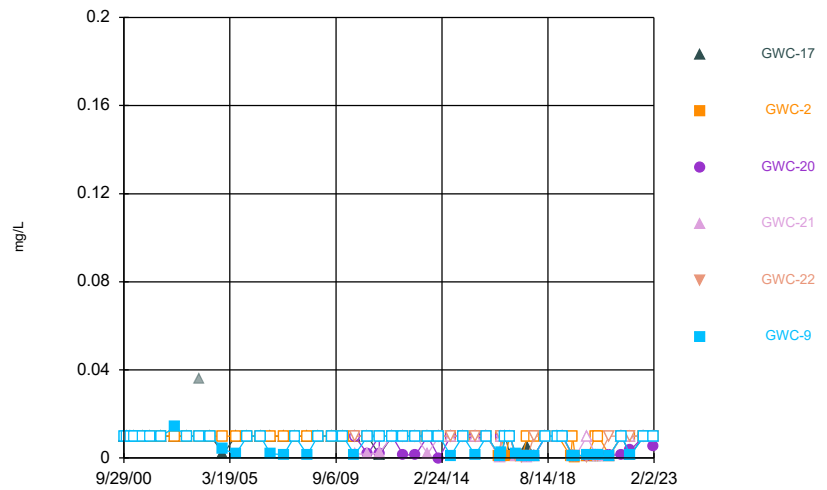
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Time Series



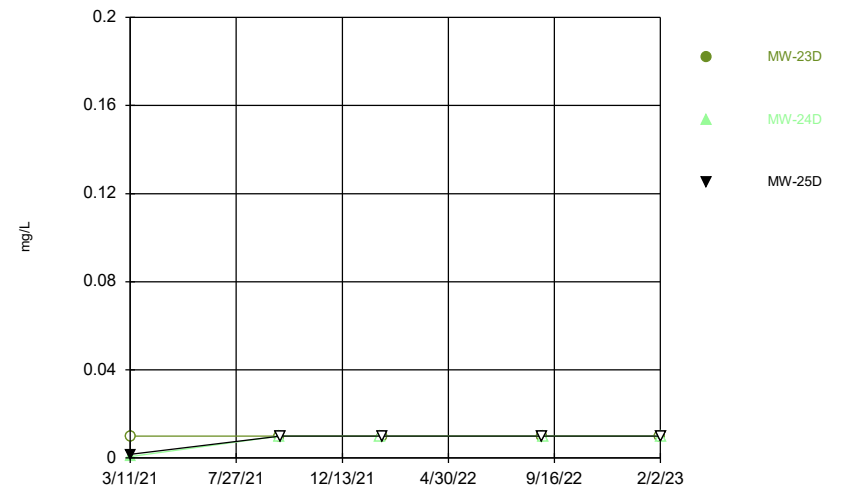
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Time Series



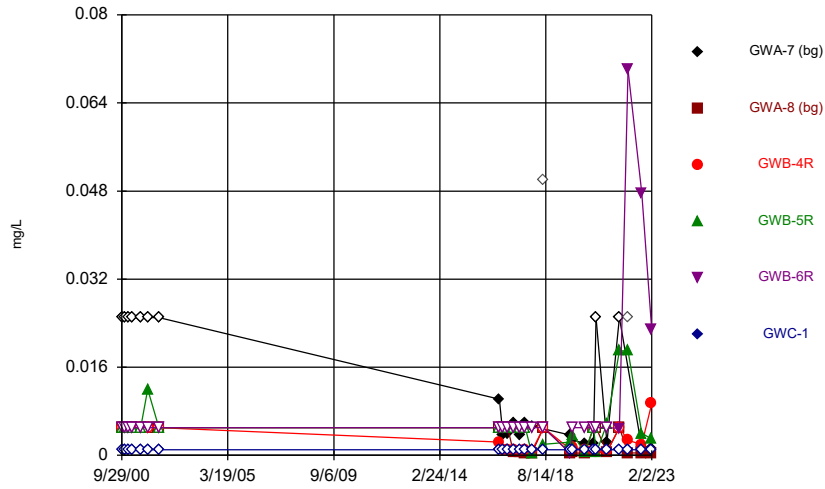
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Time Series



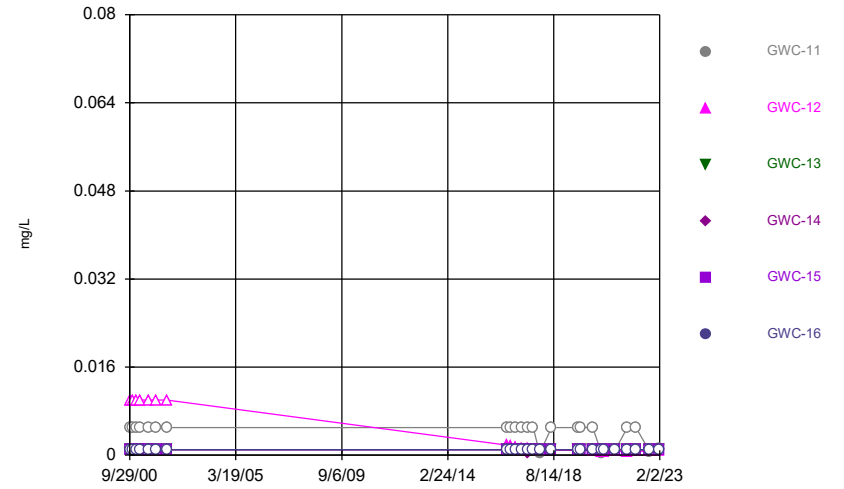
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



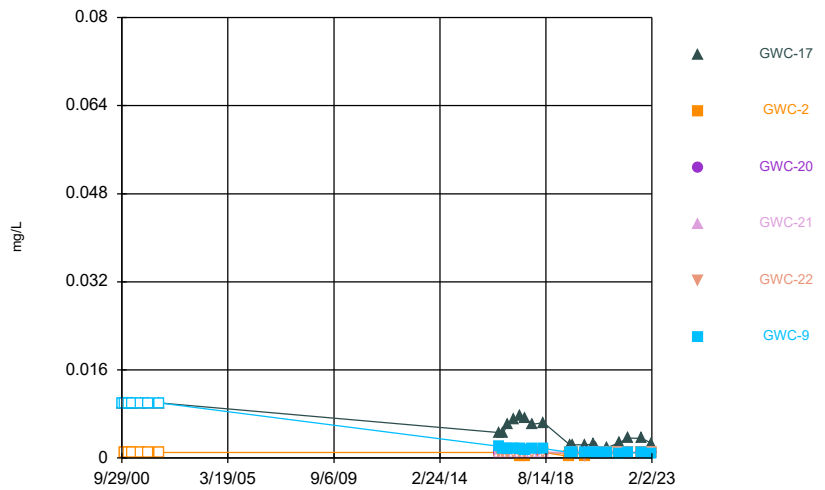
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Time Series



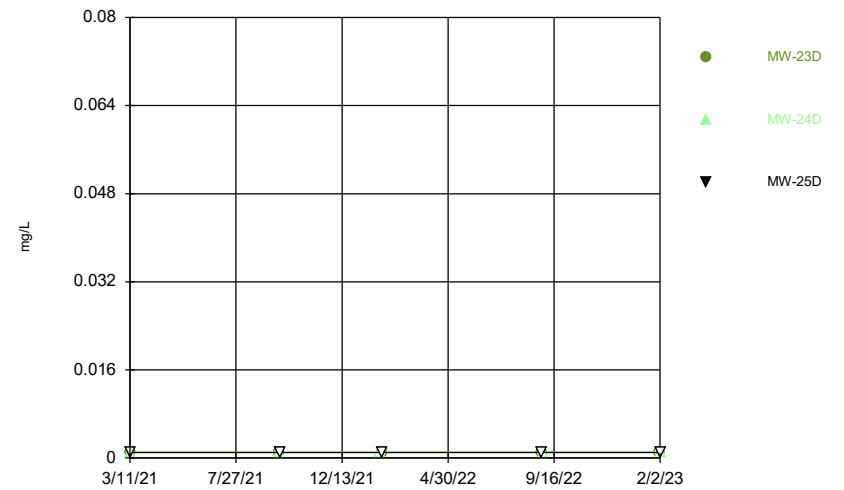
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Time Series



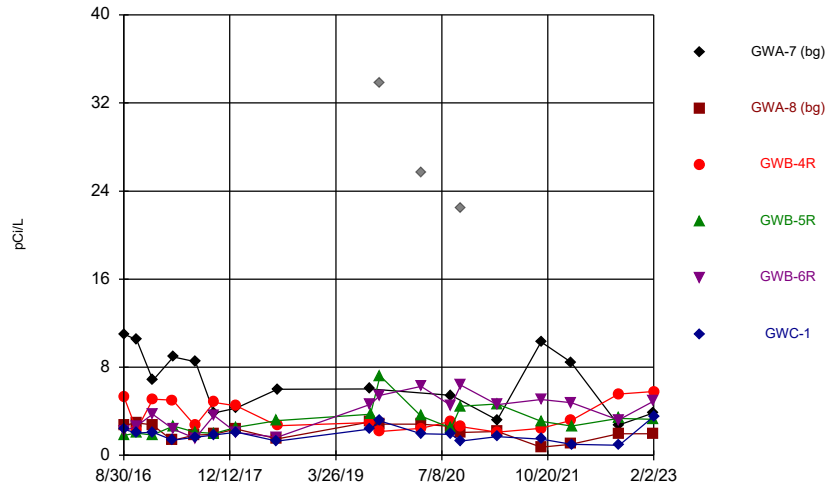
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Time Series



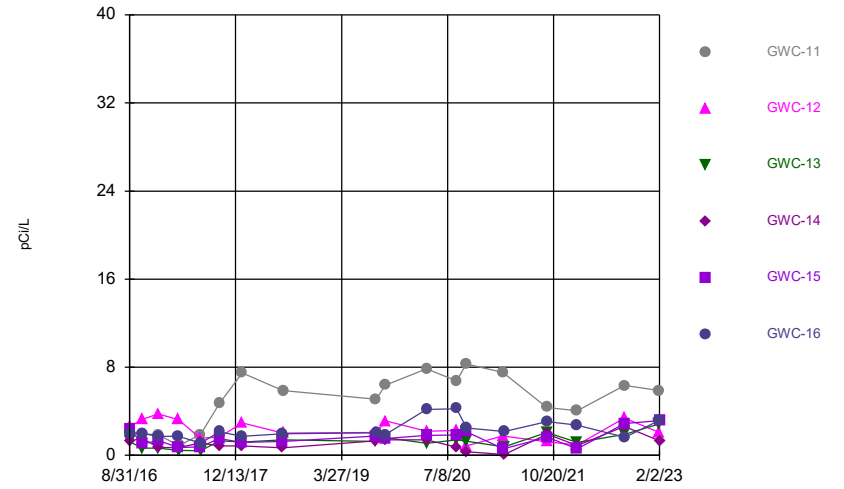
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Time Series



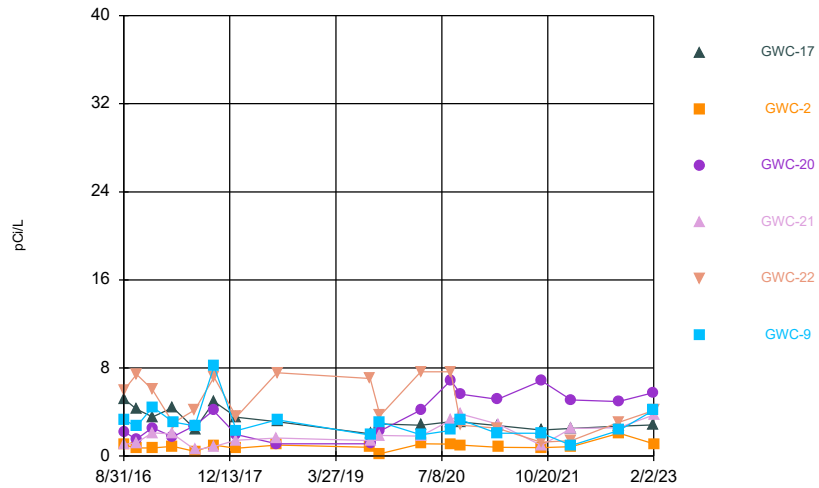
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Time Series



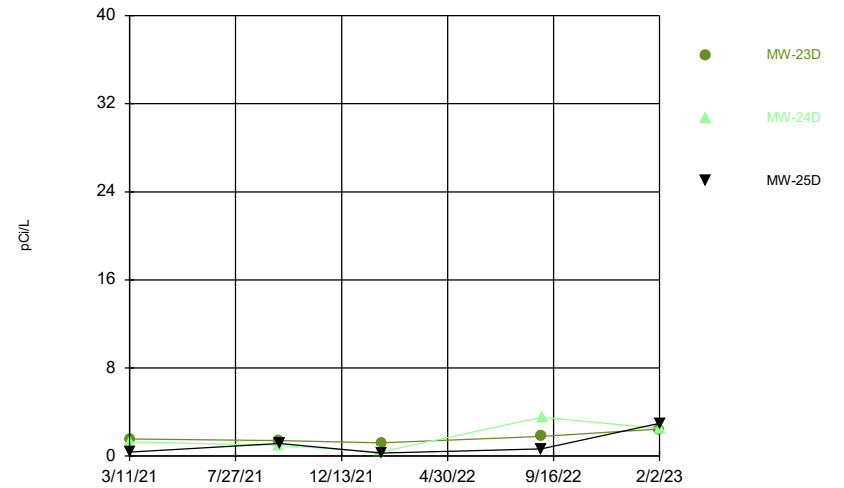
Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2023 11:05 AM View: Desc. Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



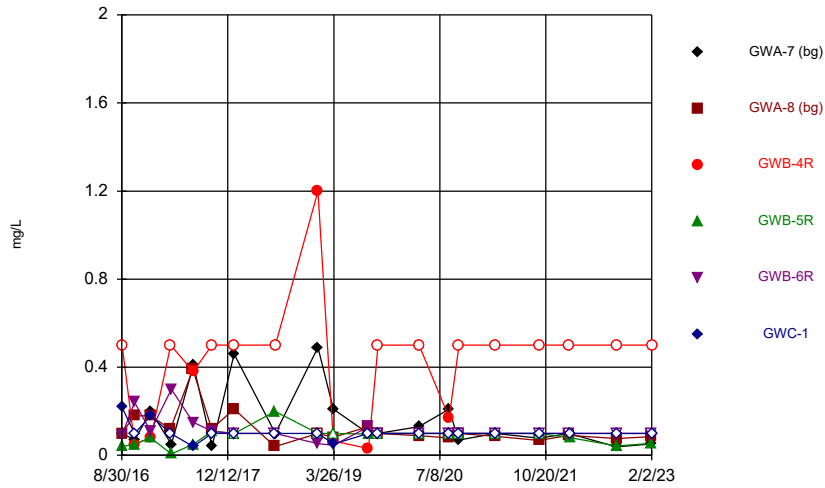
Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2023 11:05 AM View: Desc. Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



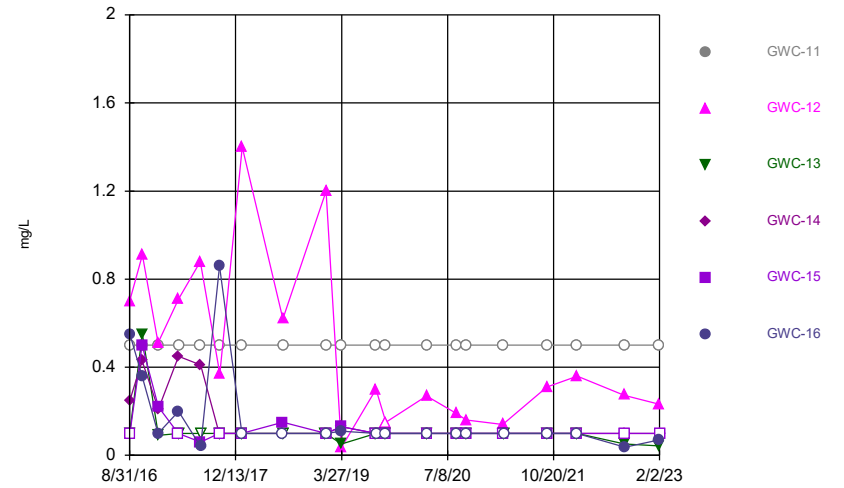
Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2023 11:05 AM View: Desc. Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



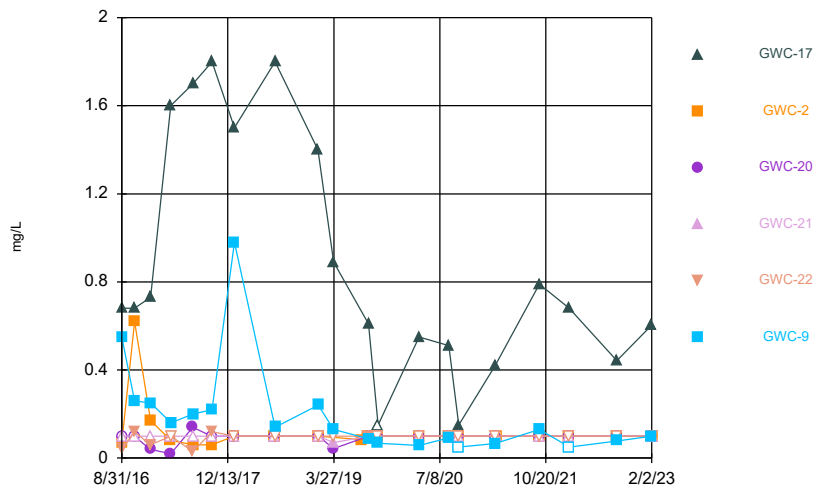
Constituent: Fluoride Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



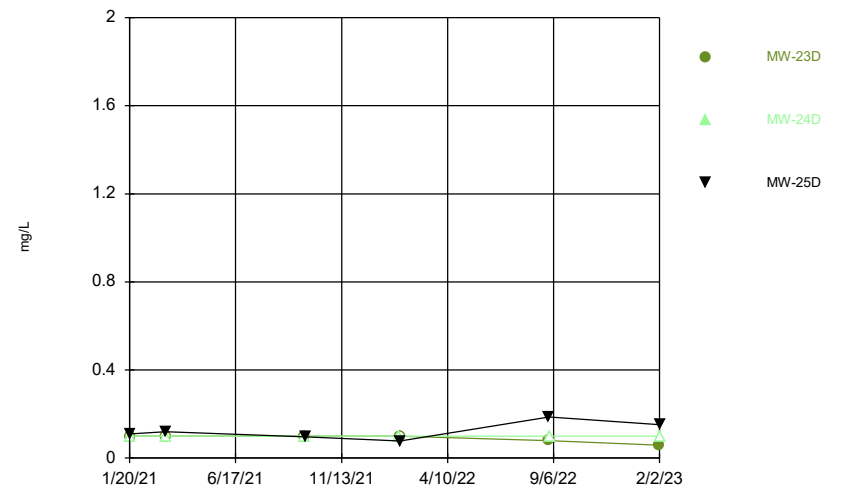
Constituent: Fluoride Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



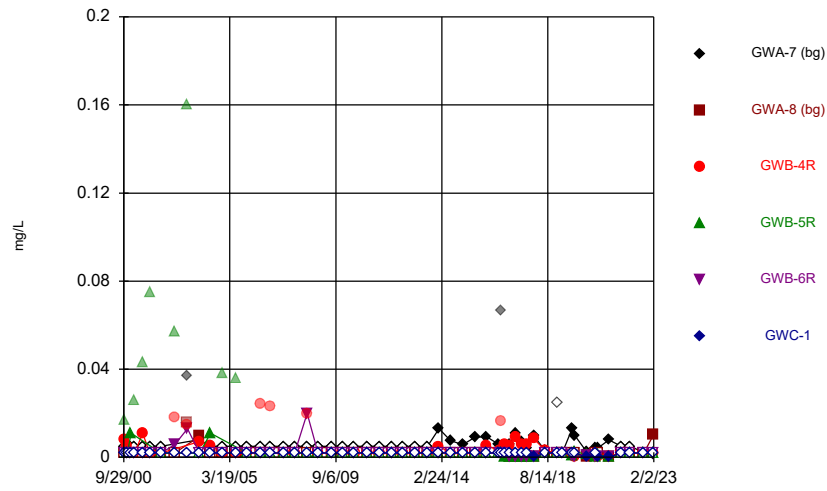
Constituent: Fluoride Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



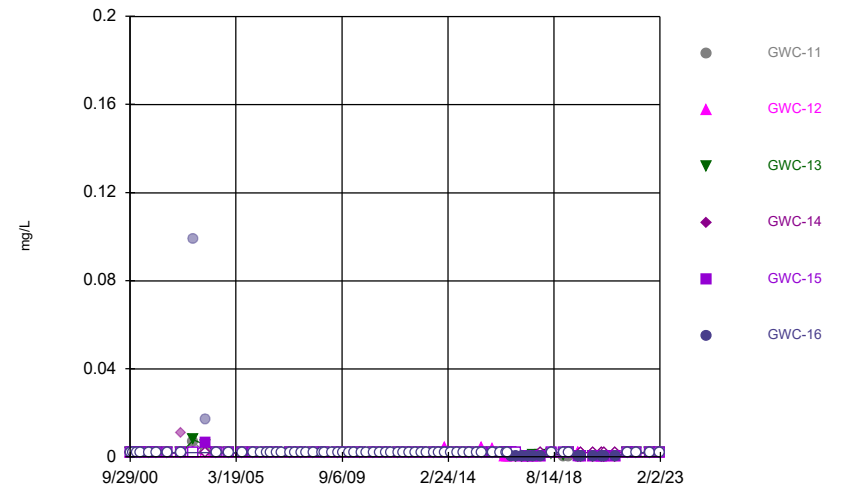
Constituent: Fluoride Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



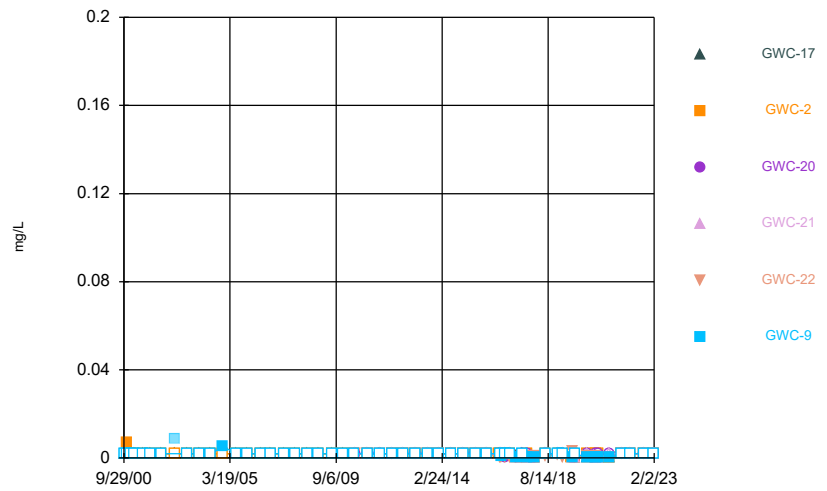
Constituent: Lead Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



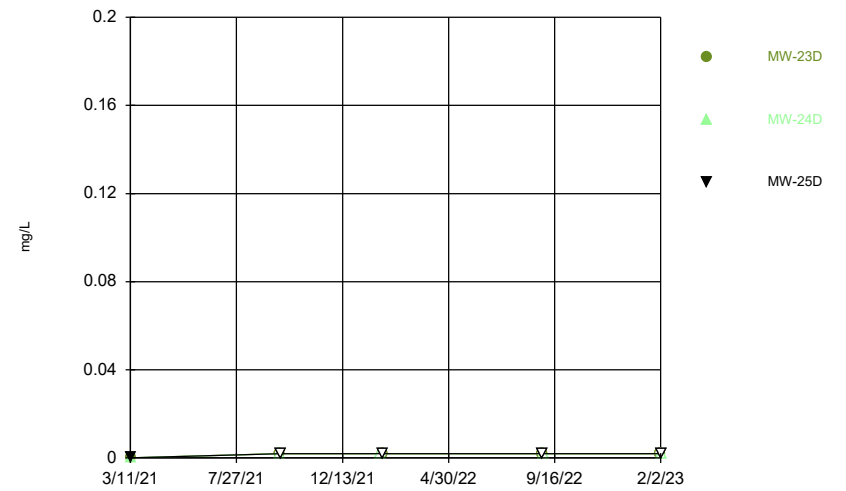
Constituent: Lead Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



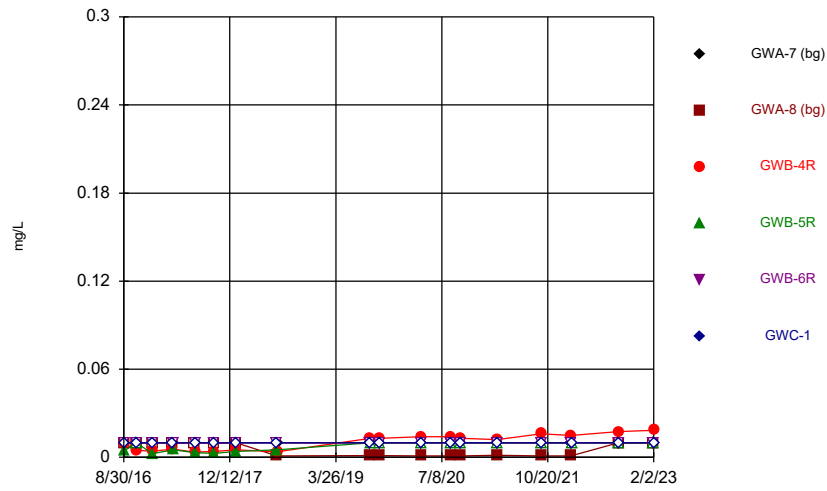
Constituent: Lead Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



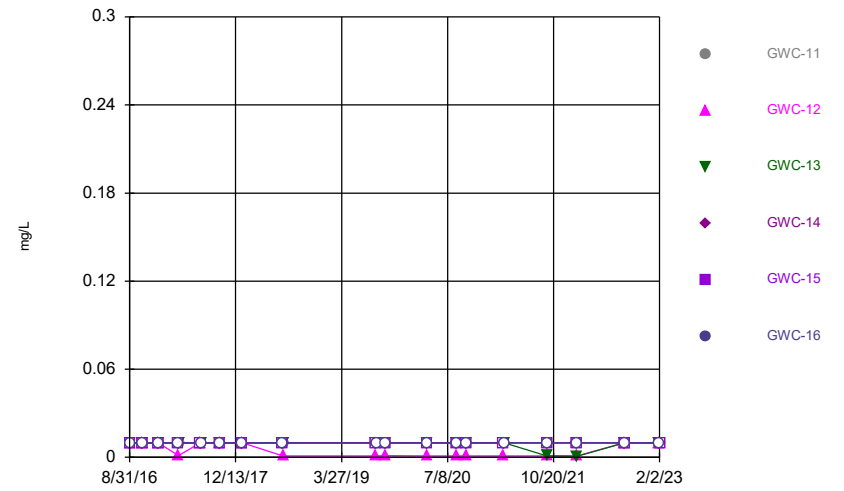
Constituent: Lead Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



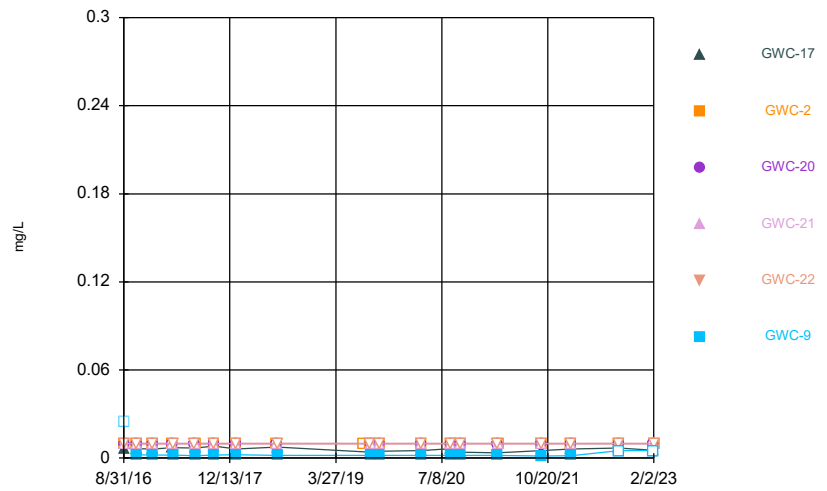
Constituent: Lithium Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



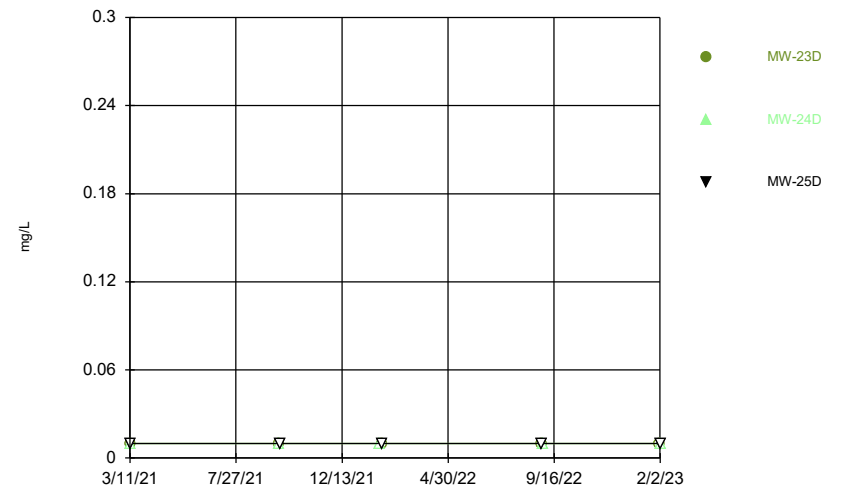
Constituent: Lithium Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



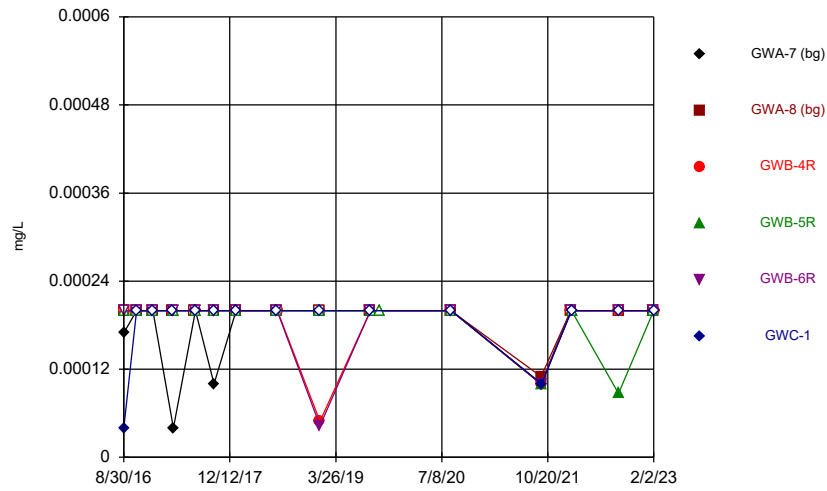
Constituent: Lithium Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



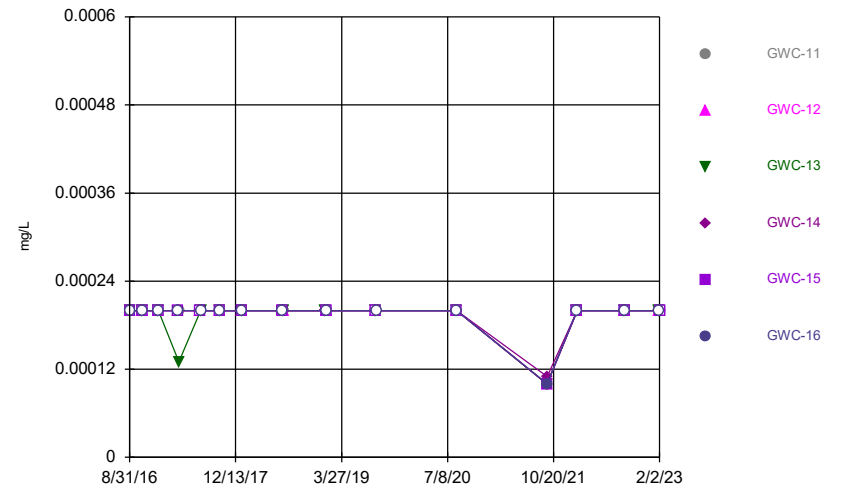
Constituent: Lithium Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



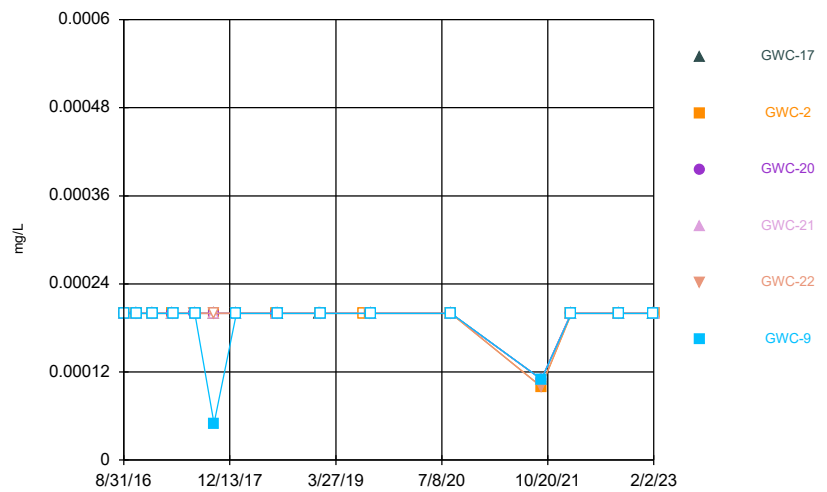
Constituent: Mercury Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



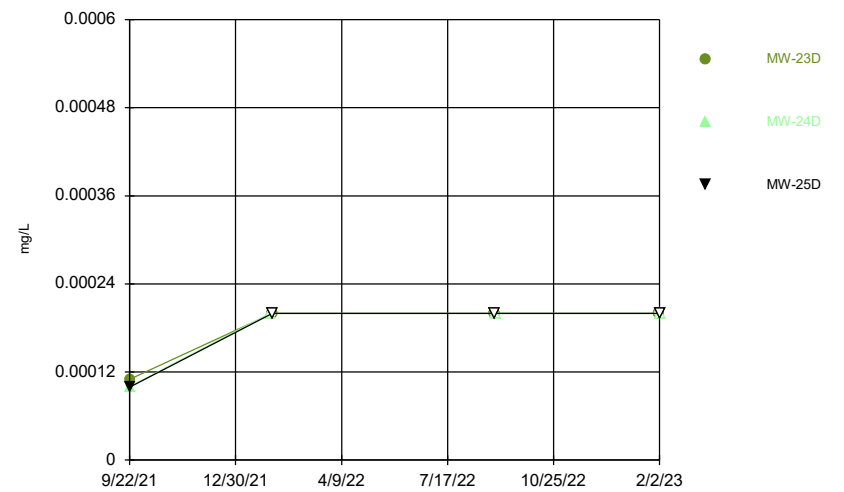
Constituent: Mercury Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



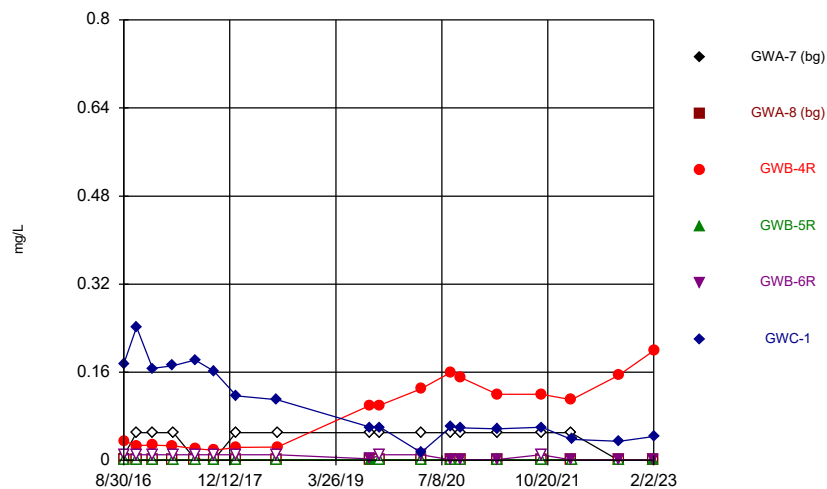
Constituent: Mercury Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



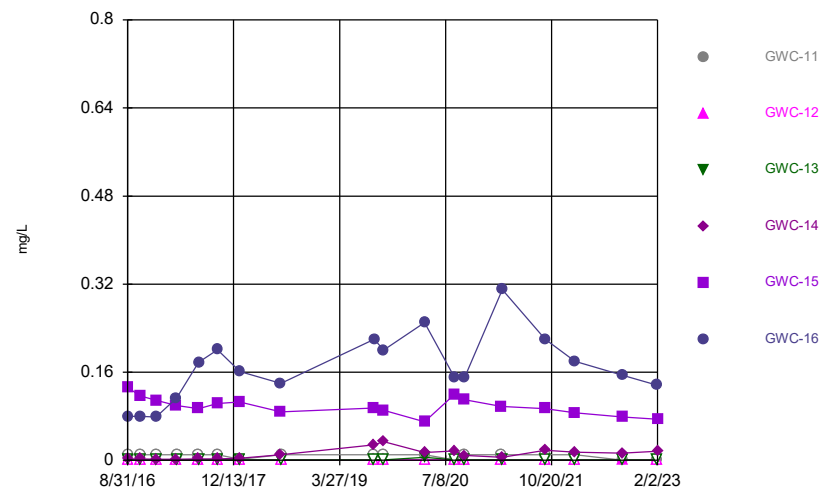
Constituent: Mercury Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



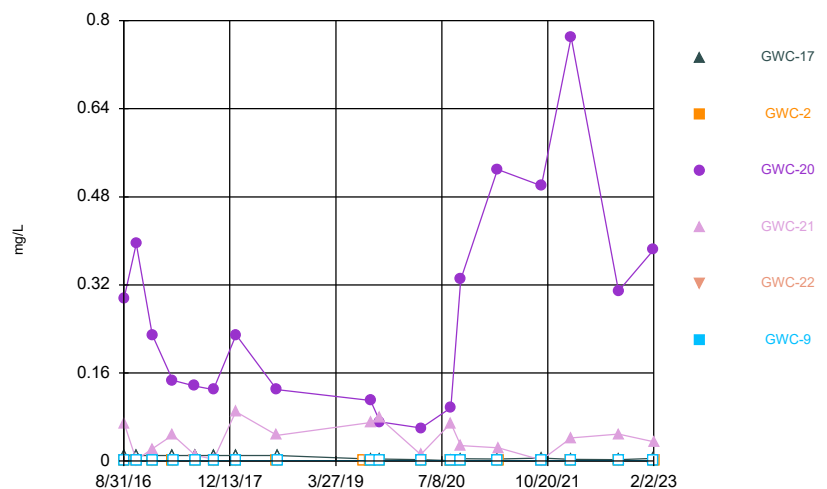
Constituent: Molybdenum Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



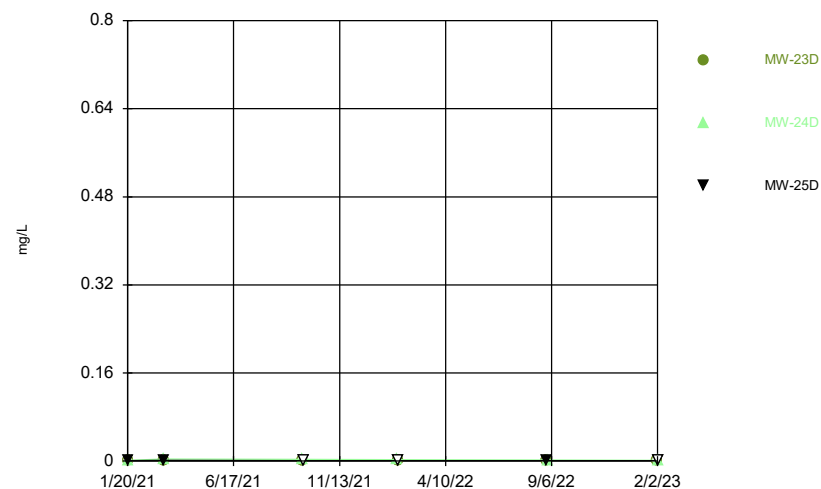
Constituent: Molybdenum Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



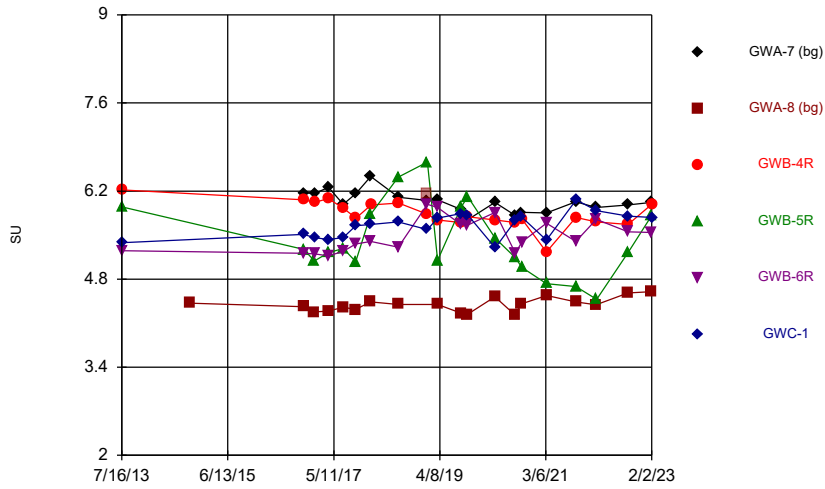
Constituent: Molybdenum Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



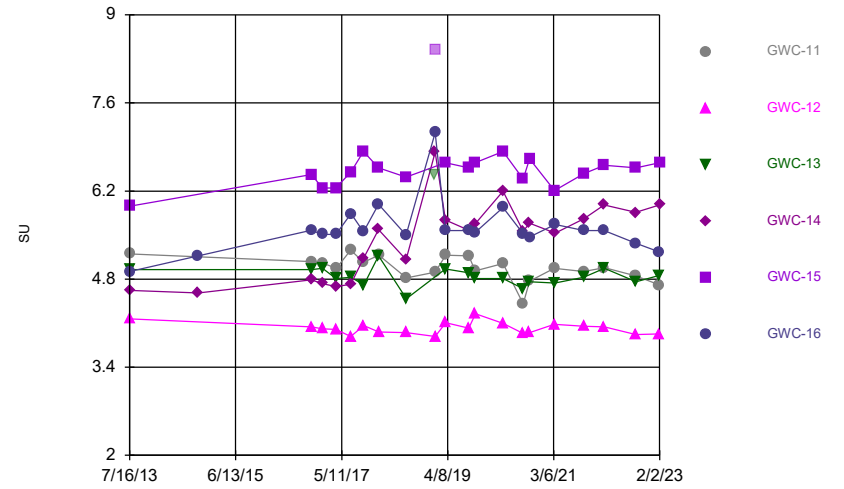
Constituent: Molybdenum Analysis Run 4/20/2023 11:05 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



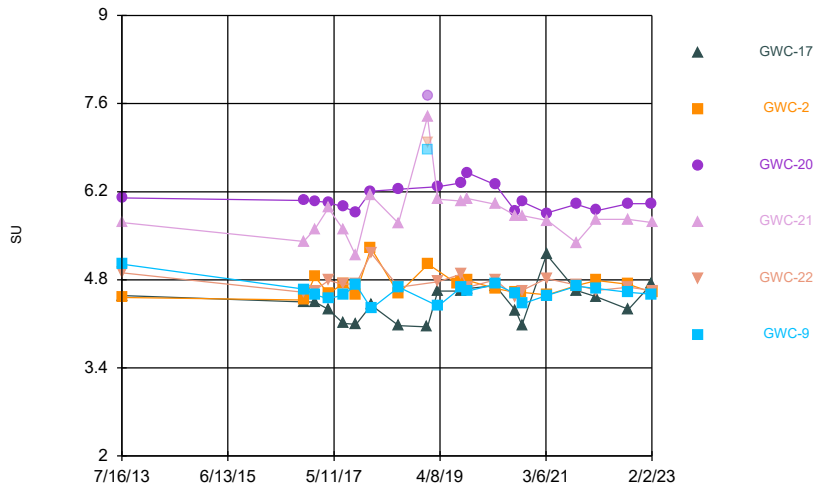
Constituent: pH Analysis Run 4/20/2023 11:05 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



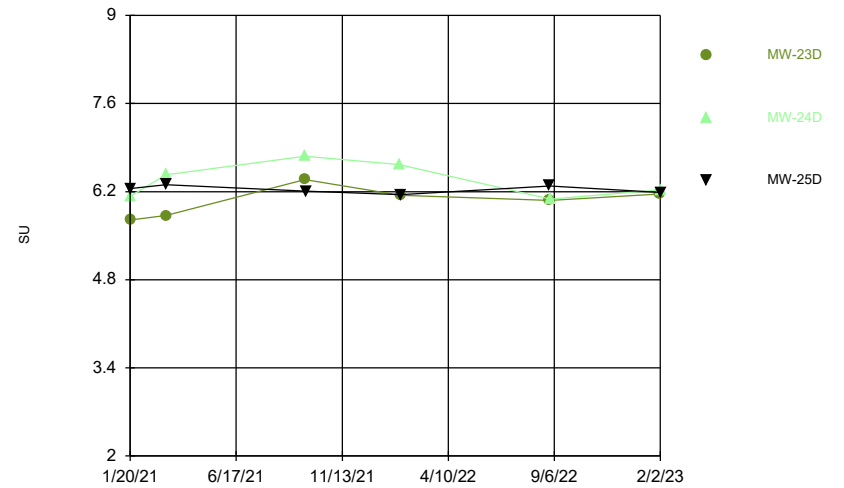
Constituent: pH Analysis Run 4/20/2023 11:05 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



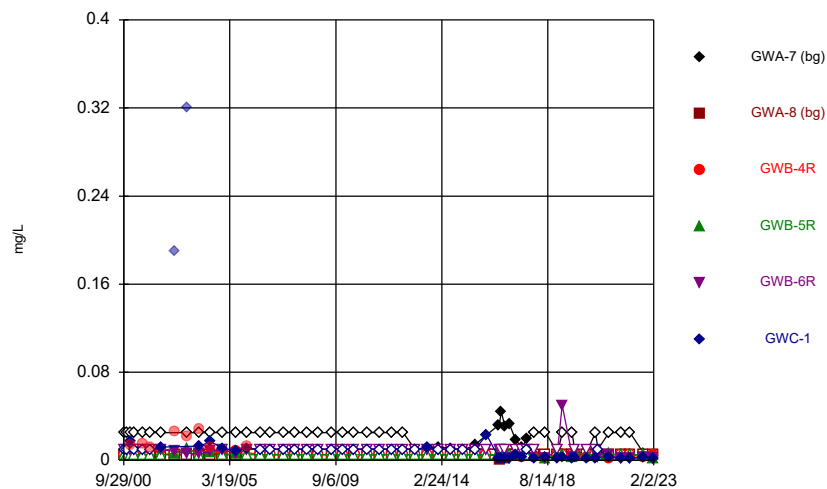
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



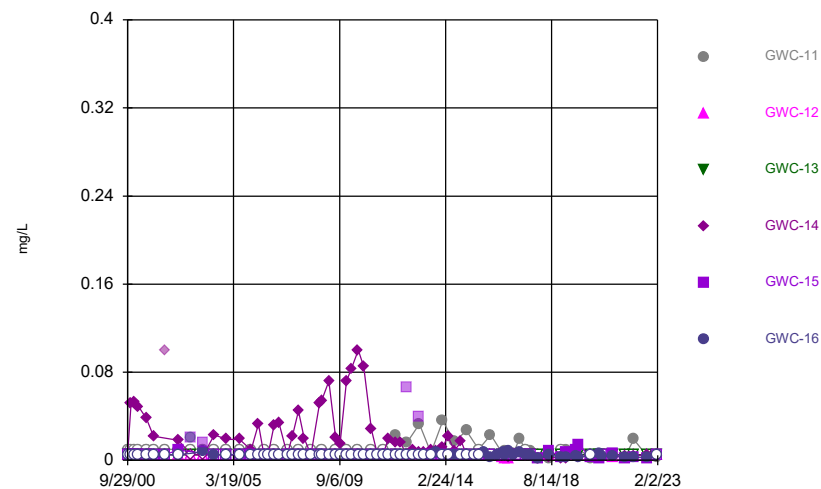
Constituent: pH Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



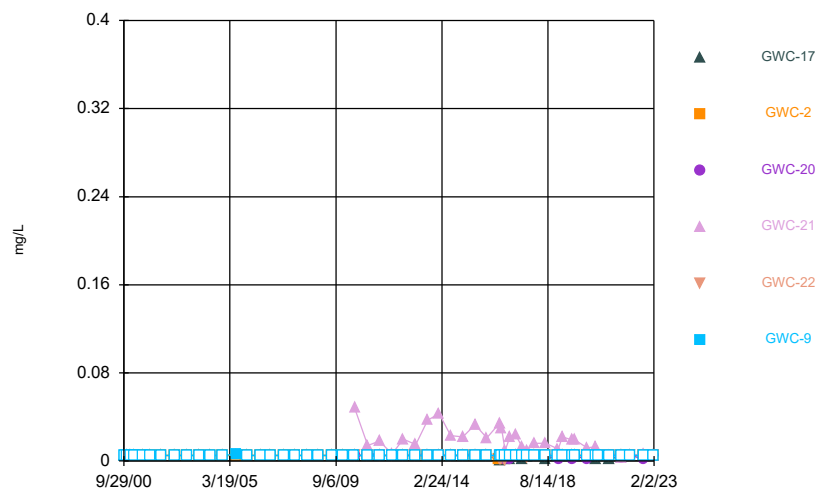
Constituent: Seleniun Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



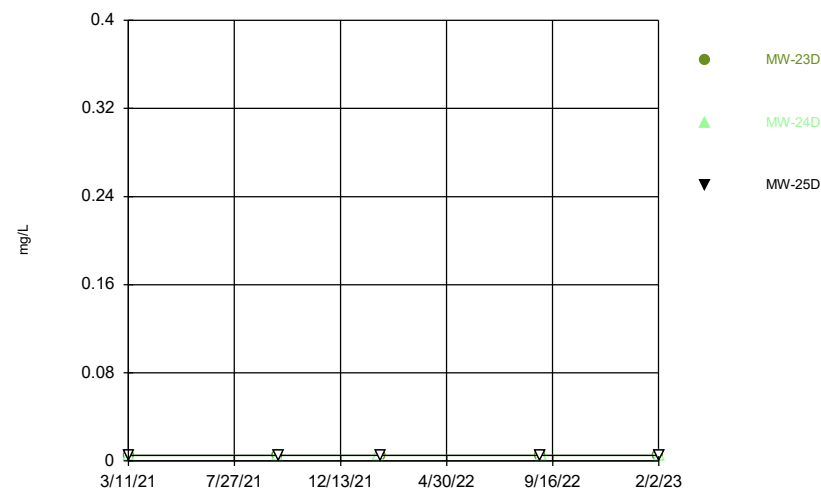
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



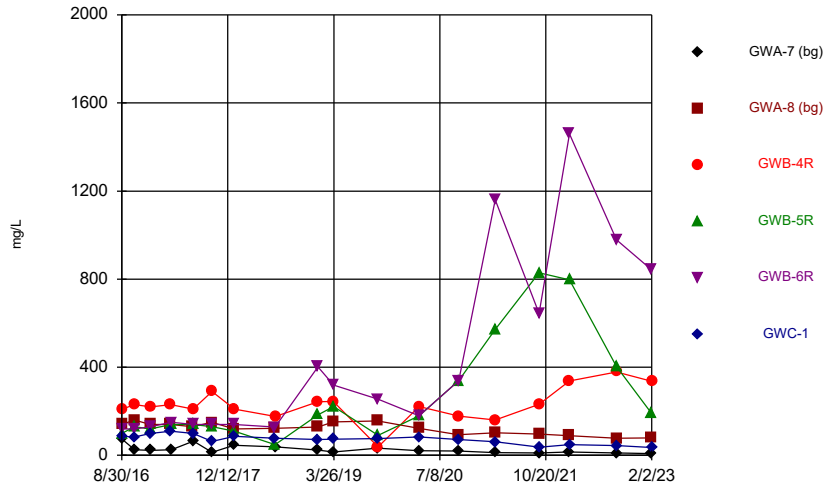
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



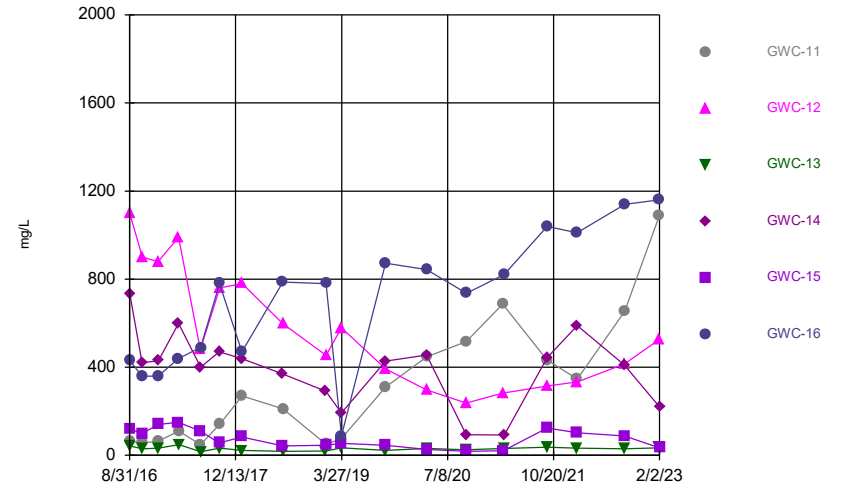
Constituent: Seleniun Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



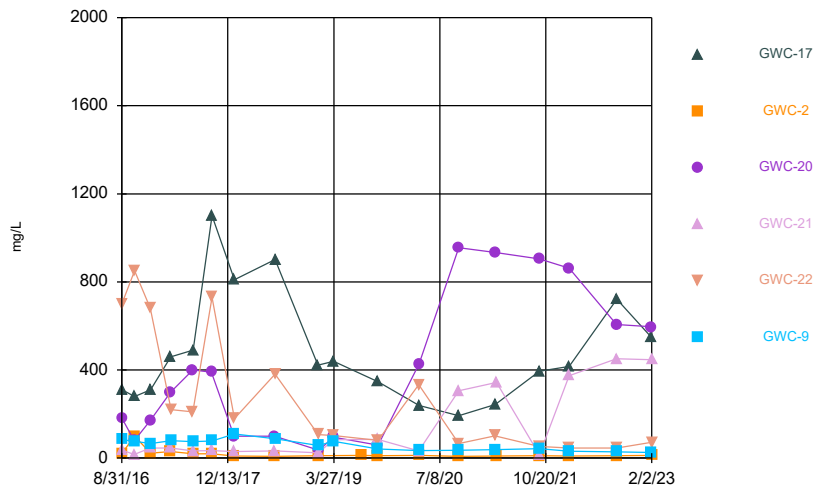
Constituent: Sulfate Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



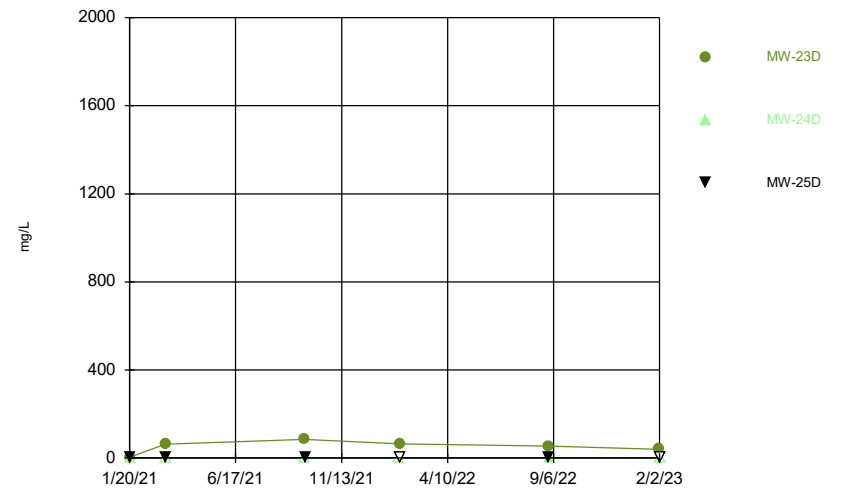
Constituent: Sulfate Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



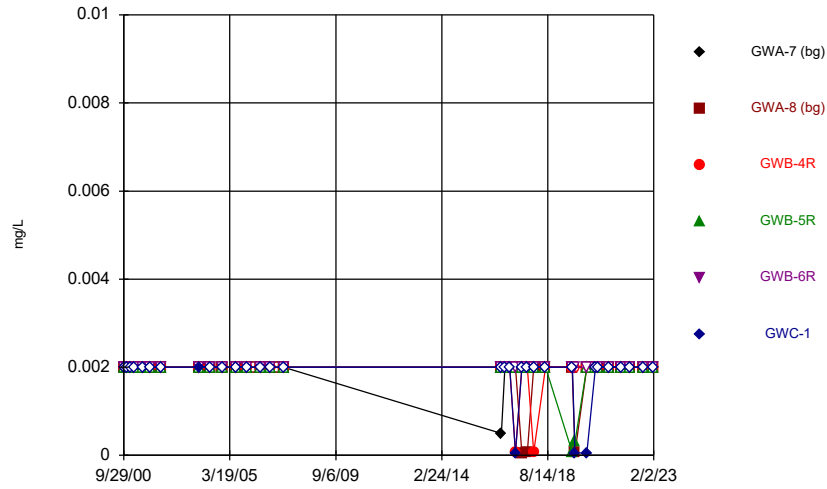
Constituent: Sulfate Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



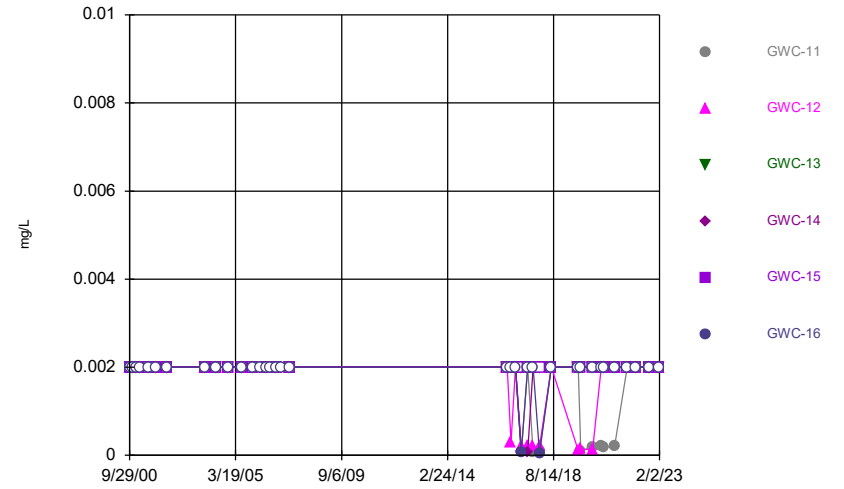
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



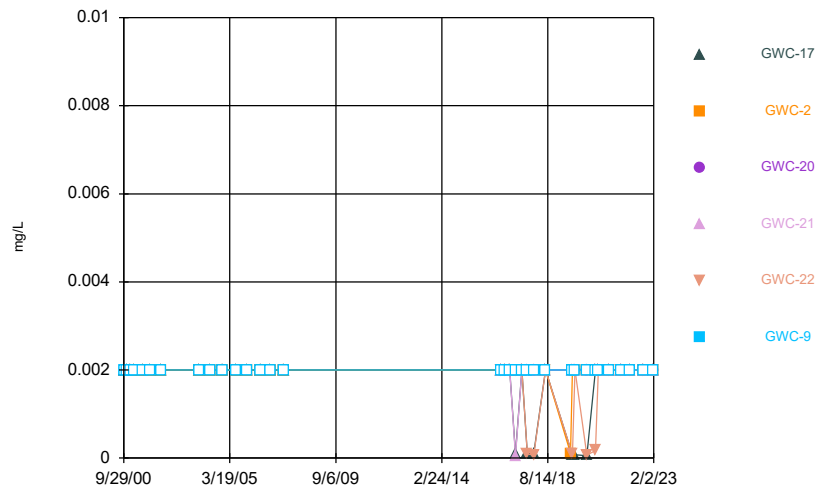
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



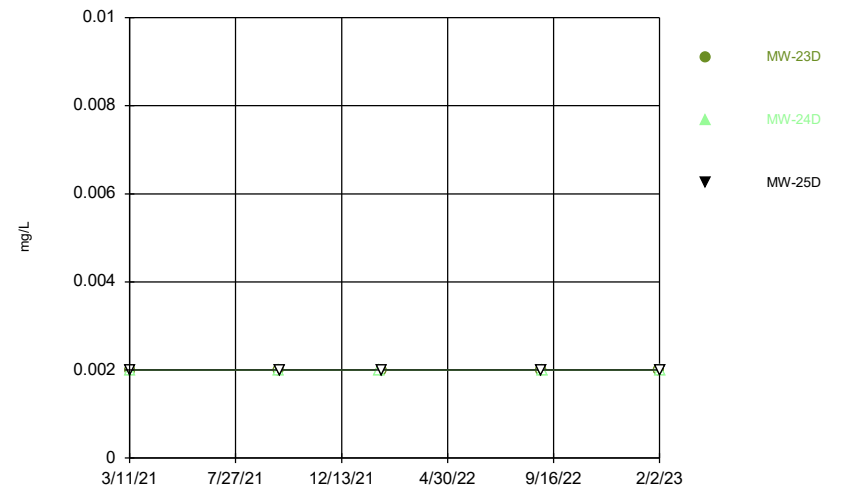
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



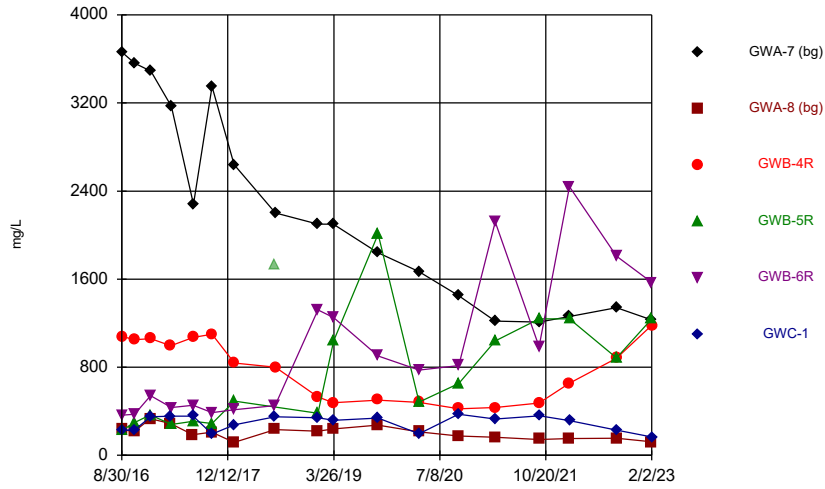
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Thallium Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

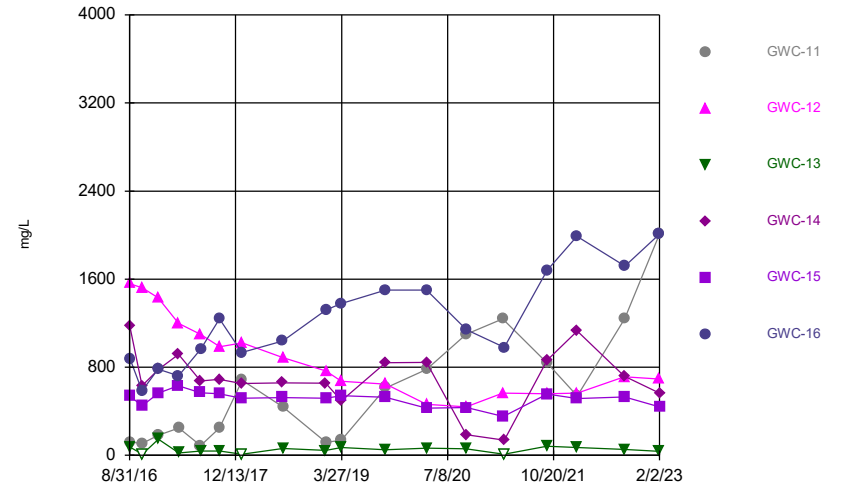
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

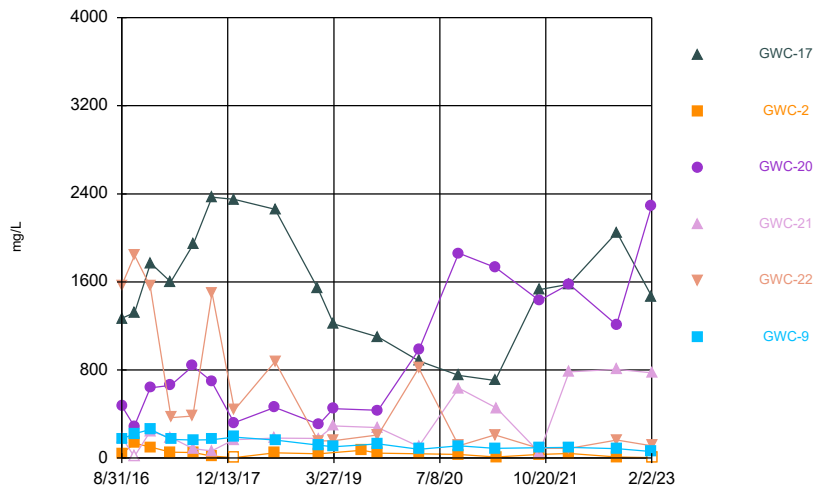
Time Series



Constituent: Total Dissolved Solids Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

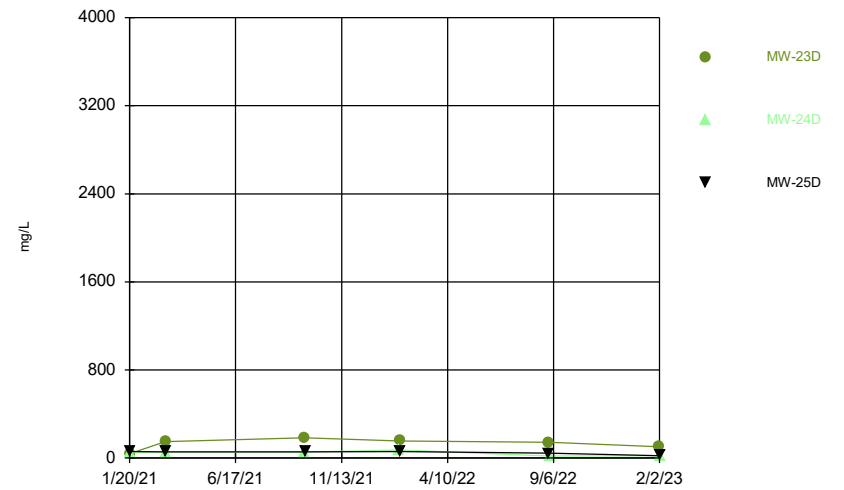
Hollow symbols indicate censored values.

Time Series



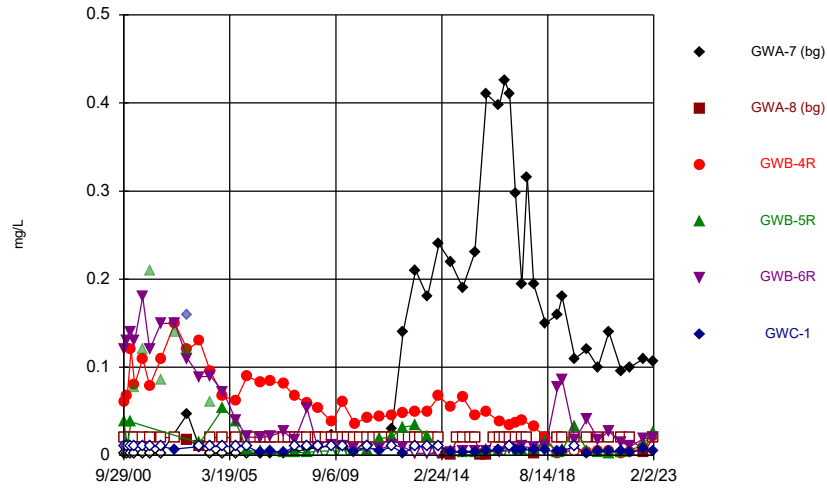
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



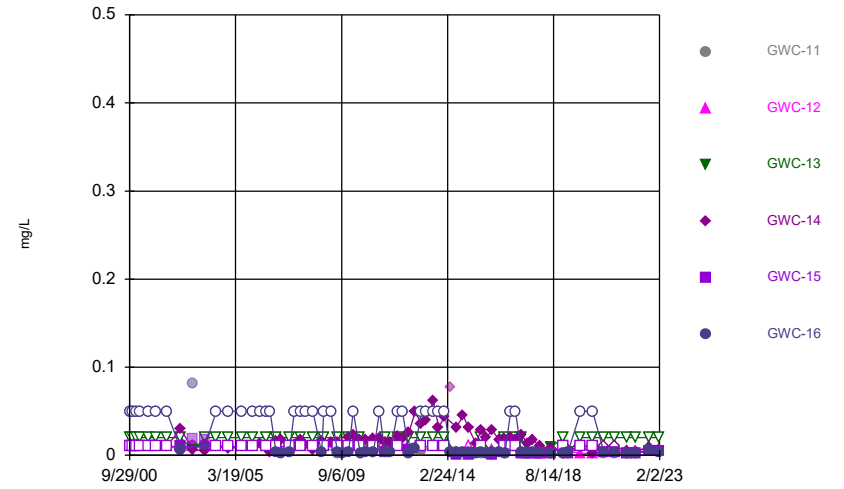
Constituent: Total Dissolved Solids Analysis Run 4/20/2023 11:06 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



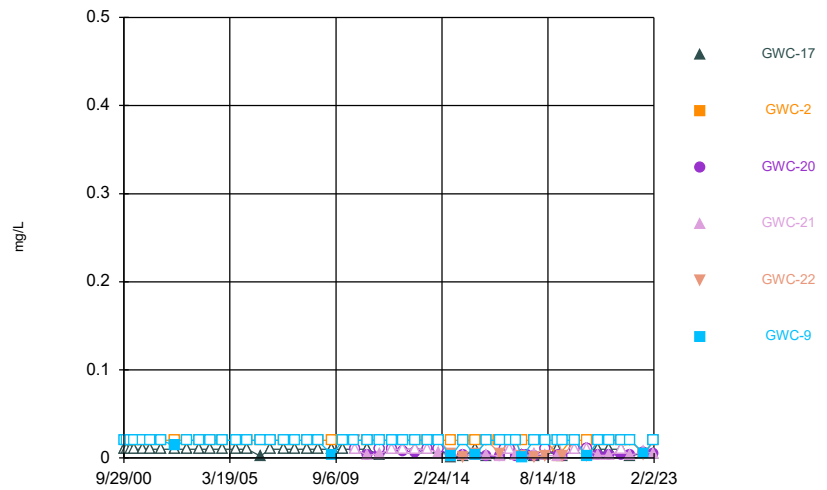
Constituent: Vanadium Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



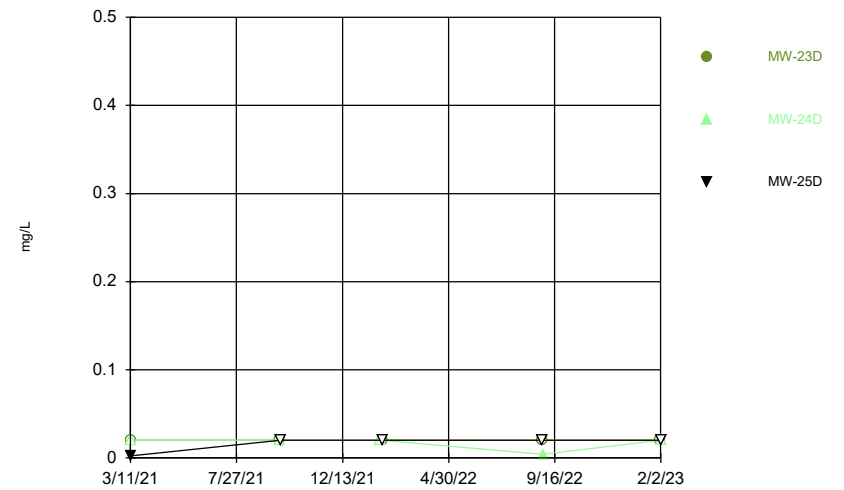
Constituent: Vanadium Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



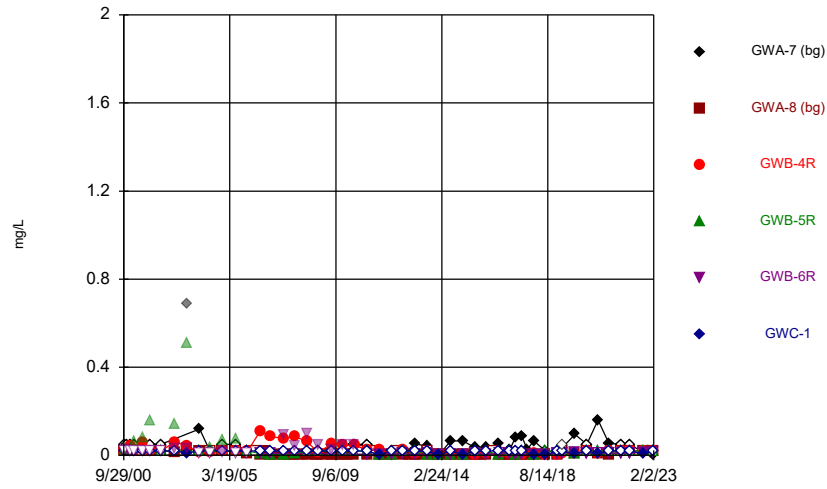
Constituent: Vanadium Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



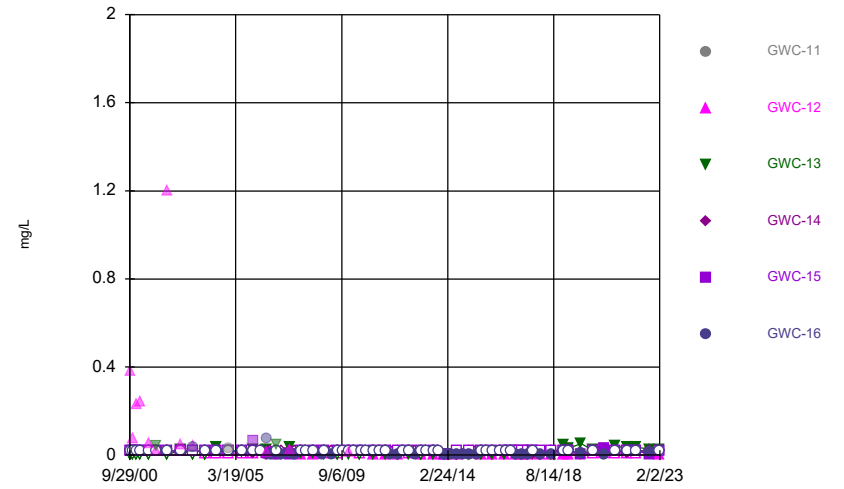
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



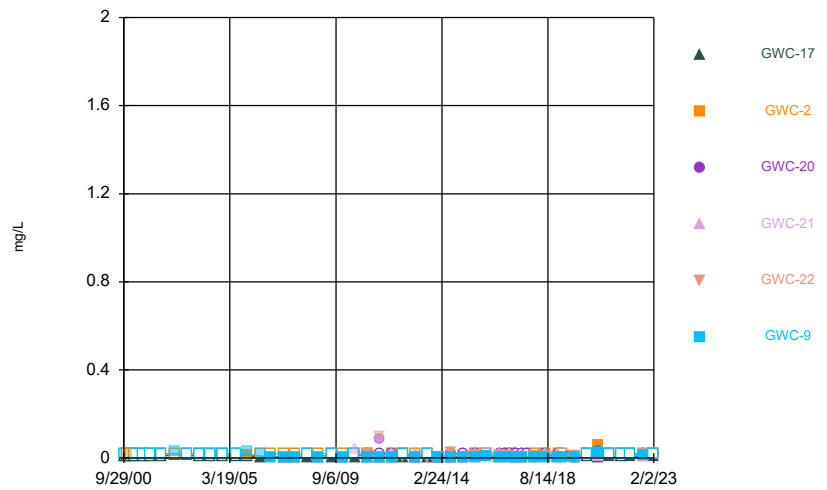
Constituent: Zinc Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



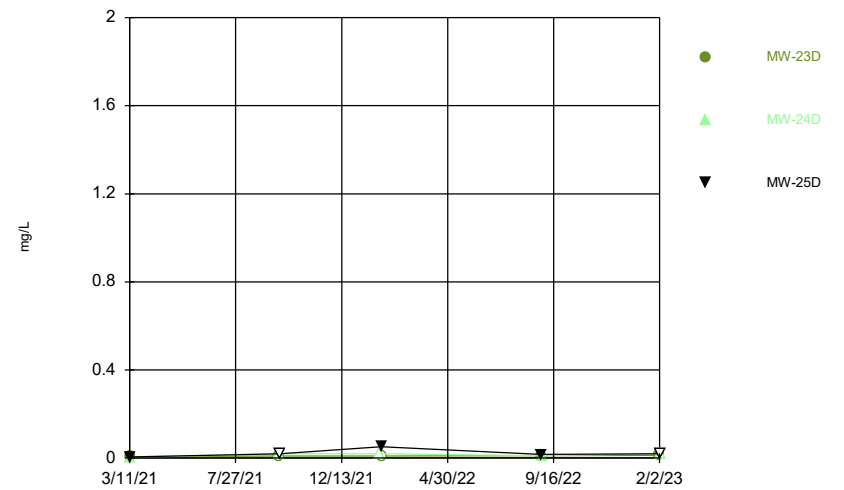
Constituent: Zinc Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 4/20/2023 11:06 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003		<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006		<0.003				
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006		<0.003				
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/15/2007		<0.003				
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007		<0.003				
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008		<0.003				
6/23/2008	<0.003	<0.003				
6/24/2008			<0.003	<0.003	<0.003	<0.003
11/3/2008		<0.003				
12/4/2008	<0.003	<0.003				
12/5/2008			<0.003	<0.003	<0.003	<0.003
3/25/2009		<0.003				
7/7/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009		<0.003				
12/20/2009	<0.003	<0.003				<0.003
12/21/2009			<0.003	<0.003	<0.003	
3/4/2010		<0.003				
6/20/2010	<0.003	<0.003		<0.003	<0.003	<0.003
6/21/2010			<0.003			
9/14/2010		<0.003				
1/6/2011				<0.003		<0.003
1/7/2011	<0.003	<0.003	<0.003		<0.003	
4/15/2011		<0.003				
7/7/2011	<0.003	<0.003		<0.003	<0.003	<0.003
7/8/2011			<0.003			
9/25/2011		<0.003				
1/17/2012	<0.003	<0.003		<0.003		<0.003
1/18/2012			<0.003		<0.003	
4/4/2012		<0.003				
7/9/2012	<0.003			<0.003		<0.003
7/10/2012		<0.003	<0.003		<0.003	
10/9/2012		<0.003				
1/17/2013				<0.003		<0.003
1/18/2013	<0.003	<0.003	<0.003		<0.003	
4/5/2013		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.003		<0.003
7/17/2013	<0.003	<0.003	<0.003		<0.003	
10/11/2013		<0.003				
1/13/2014	<0.003			<0.003		<0.003
1/14/2014		<0.003	<0.003		<0.003	
4/3/2014		<0.003				
7/9/2014	0.0022 (J)	<0.003	0.002 (J)	<0.003	<0.003	<0.003
10/24/2014		<0.003				
1/12/2015			<0.003			
1/13/2015	<0.003			<0.003		<0.003
1/14/2015		<0.003			<0.003	
5/10/2015		<0.003				
7/16/2015	0.0028 (J)		0.0021 (J)	<0.003		<0.003
7/17/2015		<0.003			<0.003	
10/6/2015		<0.003				
1/17/2016						<0.003
1/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	
4/26/2016		<0.003				
7/27/2016	<0.003			<0.003		<0.003
7/28/2016		<0.003			<0.003	
7/29/2016			0.0003 (J)			
8/30/2016		<0.003		<0.003	<0.003	<0.003
9/1/2016	0.0017 (J)		<0.003			
10/24/2016		<0.003				
10/25/2016	<0.003					<0.003
10/26/2016			<0.003	<0.003	<0.003	
1/3/2017		<0.003		<0.003		
1/4/2017						<0.003
1/5/2017					<0.003	
1/6/2017	0.0009 (J)		<0.003			
4/3/2017		<0.003				
4/4/2017			<0.003			<0.003
4/6/2017	<0.003			<0.003	<0.003	
7/11/2017		<0.003				
7/12/2017			<0.003	<0.003	<0.003	<0.003
7/13/2017	0.0013 (J)					
10/2/2017		<0.003				
10/3/2017				<0.003	<0.003	<0.003
10/4/2017	0.0008 (J)		<0.003			
1/9/2018	<0.003	<0.003			<0.003	
1/10/2018				<0.003		<0.003
1/11/2018			<0.003			
7/9/2018		<0.003				
7/10/2018				<0.003	<0.003	<0.003
7/11/2018	<0.003		<0.003			
1/16/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/25/2019	<0.003	<0.003	<0.003			
3/26/2019				<0.003	<0.003	<0.003
8/26/2019	<0.003	<0.003				
8/27/2019			<0.003		<0.003	<0.003
8/28/2019				0.00054 (J)		
10/7/2019		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	<0.003					
10/9/2019			<0.003	<0.003	<0.003	<0.003
4/6/2020	<0.003	<0.003				
4/7/2020			<0.003	<0.003	<0.003	<0.003
8/17/2020		<0.003				
8/19/2020	<0.003		<0.003	<0.003	<0.003	0.00061 (J)
9/28/2020	<0.003	<0.003				0.00035 (J)
9/30/2020				0.0003 (J)	0.00059 (J)	
10/1/2020			<0.003			
3/10/2021			<0.003	<0.003	0.00029 (J)	0.00069 (J)
3/11/2021	<0.003					
3/12/2021		<0.003				
9/21/2021	<0.003	<0.003	<0.003	0.0013 (J)	<0.003	
9/23/2021						0.0016 (J)
1/31/2022	<0.003	<0.003				
2/2/2022			<0.003		<0.003	
2/3/2022				<0.003		<0.003
8/30/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
9/1/2022						<0.003
1/31/2023	<0.003	<0.003				
2/1/2023				<0.003	<0.003	
2/2/2023			<0.003			<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006				<0.003		<0.003
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006				<0.003		<0.003
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	0.006
2/15/2007				<0.003		<0.003
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007				<0.003		<0.003
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008				<0.003		<0.003
6/23/2008	<0.003	<0.003	<0.003			
6/24/2008				<0.003	<0.003	<0.003
11/3/2008				<0.003		<0.003
12/4/2008	<0.003	<0.003	<0.003	<0.003		
12/5/2008					<0.003	<0.003
3/25/2009				<0.003		<0.003
7/8/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009				<0.003		<0.003
12/20/2009				<0.003	<0.003	<0.003
12/21/2009	<0.003	<0.003	<0.003			
3/4/2010				<0.003		<0.003
6/20/2010	<0.003	<0.003	<0.003	<0.003	<0.003	
6/21/2010						<0.003
9/14/2010				<0.003		<0.003
1/6/2011	<0.003		<0.003			
1/7/2011		<0.003		<0.003	<0.003	<0.003
4/15/2011				<0.003		<0.003
7/7/2011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/25/2011				<0.003		<0.003
1/17/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
1/18/2012						<0.003
4/4/2012				<0.003		<0.003
7/9/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
7/10/2012						<0.003
10/9/2012				<0.003		<0.003
1/17/2013	<0.003	<0.003	<0.003			
1/18/2013				<0.003	<0.003	<0.003
4/5/2013				<0.003		<0.003
7/16/2013	<0.003	<0.003	<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.003	<0.003	<0.003
10/11/2013				0.005		<0.003
1/13/2014	<0.003	<0.003	<0.003		<0.003	
1/14/2014				<0.003		<0.003
4/3/2014				<0.003		<0.003
7/8/2014	<0.003	<0.003	<0.003			
7/9/2014				<0.003	<0.003	<0.003
10/24/2014				<0.003		<0.003
1/13/2015	<0.003	<0.003	<0.003		<0.003	
1/14/2015				<0.003		<0.003
5/10/2015				<0.003		
5/11/2015						<0.003
7/16/2015	<0.003	<0.003	<0.003		<0.003	<0.003
7/17/2015				<0.003		
10/6/2015				<0.003		<0.003
1/17/2016				<0.003	<0.003	<0.003
1/18/2016		<0.003	<0.003			
1/19/2016	<0.003					
4/26/2016				<0.003		<0.003
7/26/2016	0.0005 (J)		0.0006 (J)			
7/27/2016		<0.003		<0.003	<0.003	
7/28/2016						<0.003
8/31/2016	<0.003	<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/25/2016				<0.003	<0.003	<0.003
10/26/2016	<0.003	<0.003	<0.003			
1/4/2017	<0.003	<0.003				<0.003
1/5/2017			<0.003	<0.003	<0.003	
4/3/2017					<0.003	
4/4/2017				<0.003		
4/5/2017		<0.003				<0.003
4/6/2017	0.0006 (J)		<0.003			
7/10/2017		<0.003				
7/11/2017	0.0009 (J)			<0.003	<0.003	
7/12/2017			<0.003			<0.003
10/2/2017				<0.003	<0.003	
10/3/2017	<0.003					<0.003
10/4/2017		<0.003	<0.003			
1/9/2018				<0.003	<0.003	
1/10/2018			<0.003			<0.003
1/11/2018	0.0007 (J)	<0.003				
7/9/2018				<0.003		
7/10/2018					<0.003	<0.003
7/11/2018	<0.003	<0.003	<0.003			
1/16/2019			<0.003	<0.003		
1/17/2019	<0.003	<0.003			<0.003	<0.003
3/26/2019			<0.003	<0.003	<0.003	<0.003
3/27/2019	<0.003	<0.003				
8/27/2019	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	
8/28/2019						<0.003
10/8/2019	0.00046 (J)		<0.003	<0.003	<0.003	<0.003
10/9/2019		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00066 (J)	<0.003		<0.003	<0.003	<0.003
4/8/2020			<0.003			
8/17/2020		<0.003	<0.003			
8/18/2020	0.00064 (J)			<0.003	<0.003	<0.003
9/28/2020			<0.003			
9/29/2020	0.00051 (J)	<0.003		<0.003		
9/30/2020					<0.003	<0.003
3/10/2021	0.00076 (J)	0.0003 (J)				
3/12/2021					0.0018 (J)	
3/15/2021			<0.003			
3/16/2021				<0.003		<0.003
9/21/2021	<0.003	<0.003	<0.003			
9/22/2021				<0.003		<0.003
9/23/2021					<0.003	
2/1/2022						<0.003
2/2/2022				<0.003		
2/3/2022	<0.003	<0.003	<0.003		<0.003	
8/30/2022		<0.003		<0.003		
8/31/2022	<0.003		<0.003		<0.003	
9/1/2022						<0.003
2/1/2023	<0.003	<0.003	<0.003			<0.003
2/2/2023				<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.003					<0.003
11/21/2000	<0.003	<0.003				<0.003
1/20/2001	<0.003	<0.003				<0.003
3/14/2001	<0.003	<0.003				<0.003
7/16/2001	<0.003	<0.003				<0.003
11/1/2001	<0.003	<0.003				<0.003
4/25/2002	<0.003	<0.003				<0.003
11/20/2002	<0.003	<0.003				<0.003
6/6/2003	<0.003	<0.003				<0.003
12/12/2003	<0.003	<0.003				<0.003
5/26/2004	<0.003	<0.003				<0.003
12/7/2004	<0.003	<0.003				<0.003
6/21/2005	<0.003	<0.003				<0.003
12/12/2005	<0.003	<0.003				<0.003
6/27/2006	<0.003	<0.003				<0.003
12/4/2006	<0.003	<0.003				<0.003
6/23/2007	<0.003	<0.003				<0.003
12/11/2007	<0.003	<0.003				<0.003
6/23/2008						<0.003
6/24/2008	<0.003	<0.003				
12/4/2008		<0.003				<0.003
12/5/2008	<0.003					
7/8/2009	<0.003	<0.003				<0.003
12/20/2009		<0.003				
12/21/2009	<0.003					<0.003
6/20/2010		<0.003				<0.003
6/21/2010	<0.003		<0.003	<0.003	<0.003	
1/6/2011		<0.003				
1/7/2011	<0.003		<0.003	<0.003	<0.003	<0.003
7/7/2011			<0.003			
7/8/2011	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2012		<0.003				
1/18/2012	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2012		<0.003				
7/10/2012	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2013		<0.003				
1/18/2013	<0.003		<0.003	<0.003	<0.003	<0.003
7/17/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/13/2014		<0.003				
1/14/2014	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2014	<0.003	<0.003		<0.003		<0.003
7/10/2014			<0.003		<0.003	
1/12/2015			<0.003			
1/13/2015		<0.003				
1/14/2015	<0.003			<0.003	<0.003	<0.003
7/16/2015		<0.003				
7/17/2015				<0.003		<0.003
7/18/2015	<0.003		<0.003		<0.003	
1/17/2016		<0.003	<0.003	<0.003		
1/18/2016	<0.003				<0.003	<0.003
7/27/2016		<0.003				
7/28/2016			0.0019 (J)	<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.003				<0.003	
8/31/2016		<0.003			<0.003	<0.003
9/1/2016	<0.003		<0.003	<0.003		
10/25/2016			<0.003	<0.003		
10/26/2016	<0.003	<0.003			<0.003	
10/27/2016						0.0016 (J)
1/4/2017			<0.003	<0.003	<0.003	
1/5/2017	<0.003	<0.003				
1/6/2017						<0.003
4/4/2017		<0.003	<0.003	<0.003		
4/5/2017	<0.003					
4/6/2017					<0.003	<0.003
7/11/2017			<0.003		<0.003	
7/12/2017						<0.003
7/13/2017	<0.003	<0.003		<0.003		
10/2/2017			<0.003			
10/3/2017		<0.003		<0.003		
10/4/2017	<0.003				<0.003	<0.003
1/9/2018				<0.003		
1/10/2018		<0.003	<0.003			
1/11/2018	<0.003				<0.003	<0.003
7/9/2018			<0.003			
7/10/2018		<0.003		<0.003		
7/11/2018	<0.003				<0.003	<0.003
1/16/2019	<0.003					
1/17/2019				<0.003		
1/18/2019					<0.003	<0.003
1/21/2019		<0.003	<0.003			
3/25/2019			<0.003			
3/26/2019	<0.003			<0.003		
3/27/2019					<0.003	<0.003
7/30/2019		<0.003				
8/27/2019		<0.003			0.00045 (J)	
8/28/2019	<0.003		<0.003	<0.003		<0.003
10/8/2019				<0.003		
10/9/2019	<0.003	<0.003	<0.003		<0.003	<0.003
4/7/2020				<0.003	0.00049 (J)	
4/8/2020	<0.003	0.0013 (J)	<0.003			0.00033 (J)
8/18/2020	<0.003	<0.003	<0.003	<0.003	0.0022 (J)	
8/19/2020						<0.003
9/29/2020		0.0016 (J)				
9/30/2020	<0.003		<0.003	0.00033 (J)	0.0016 (J)	
10/1/2020						<0.003
3/10/2021					0.0004 (J)	<0.003
3/11/2021	0.00039 (J)					
3/12/2021			0.00065 (J)			
3/15/2021		<0.003				
3/16/2021				<0.003		
9/21/2021					<0.003	
9/22/2021	0.0014 (J)	<0.003	<0.003	<0.003		<0.003
2/1/2022	<0.003		<0.003	<0.003		
2/2/2022		<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.003	
8/30/2022			<0.003	<0.003		
8/31/2022	<0.003				<0.003	
9/1/2022		<0.003				<0.003
2/1/2023	0.00286 (J)		<0.003			<0.003
2/2/2023		<0.003		<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.003	<0.003	<0.003
9/22/2021	<0.003	<0.003	
9/23/2021			<0.003
2/1/2022		<0.003	
2/3/2022	<0.003		<0.003
8/31/2022	<0.003		<0.003
9/1/2022		<0.003	
2/1/2023	<0.003		
2/2/2023		<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005		<0.005	<0.005	<0.005	<0.005
1/20/2001	<0.005	<0.005	0.01	<0.005	0.014	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	0.014	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	0.023	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		<0.005	0.0096	0.022	0.014	<0.005
6/6/2003	0.02	<0.005	0.0076	0.07 (O)	0.014	0.03 (O)
12/12/2003	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005
5/26/2004	<0.005	<0.005	0.0068	0.0074	0.0082	<0.005
12/7/2004	<0.005	<0.005	0.0066	0.017	0.0062	<0.005
6/21/2005	<0.005	<0.005	<0.005	0.013	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006		<0.005				
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006		<0.005				
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007		<0.005				
6/23/2007	<0.005	<0.005	<0.005	<0.005	0.0053	<0.005
9/11/2007		<0.005				
12/11/2007	<0.005	<0.005	<0.005	<0.005	0.0057	<0.005
3/11/2008		<0.005				
6/23/2008	<0.005	<0.005				
6/24/2008			0.005	<0.005	0.012	<0.005
11/3/2008		<0.005				
12/4/2008	<0.005	<0.005				
12/5/2008			<0.005	<0.005	0.0064	<0.005
3/25/2009		<0.005				
7/7/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/14/2009		<0.005				
12/20/2009	<0.005	<0.005				<0.005
12/21/2009			<0.005	<0.005	<0.005	
3/4/2010		<0.005				
6/20/2010	<0.005	<0.005		<0.005	0.017	<0.005
6/21/2010			0.018 (O)			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.005
1/7/2011	<0.005	<0.005	<0.005		<0.005	
4/15/2011		<0.005				
7/7/2011	<0.005	<0.005		<0.005	<0.005	<0.005
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.005	<0.005		<0.005		0.0071
1/18/2012			<0.005		<0.005	
4/4/2012		<0.005				
7/9/2012	0.0052			<0.005		0.0076
7/10/2012		<0.005	0.0052		<0.005	
10/9/2012		<0.005				
1/17/2013				<0.005		0.0086
1/18/2013	0.0087	<0.005	<0.005		<0.005	
4/5/2013		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		<0.005
7/17/2013	0.0084	<0.005	<0.005		<0.005	
10/11/2013		<0.005				
1/13/2014	0.009			<0.005		<0.005
1/14/2014		<0.005	<0.005		<0.005	
4/3/2014		<0.005				
7/9/2014	0.008	<0.005	0.0023 (J)	<0.005	<0.005	0.0022 (J)
10/24/2014		<0.005				
1/12/2015			0.0028 (J)			
1/13/2015	0.0077			<0.005		<0.005
1/14/2015		<0.005			<0.005	
5/10/2015		<0.005				
7/16/2015	0.0077		<0.005	<0.005		0.0037 (J)
7/17/2015		<0.005			<0.005	
10/6/2015		<0.005				
1/17/2016						0.024 (O)
1/18/2016	0.014	<0.005	<0.005	<0.005	<0.005	
4/26/2016		0.0011 (J)				
7/27/2016	0.0111			0.0008 (J)		0.0046 (J)
7/28/2016		<0.005			0.0009 (J)	
7/29/2016			0.0014 (J)			
8/30/2016		<0.005		<0.005	<0.005	0.0023 (J)
9/1/2016	0.0287		0.0033 (J)			
10/24/2016		<0.005				
10/25/2016	0.0069					0.0035 (J)
10/26/2016			0.0016 (J)	<0.005	<0.005	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0018 (J)
1/5/2017					0.0021 (J)	
1/6/2017	0.0097		<0.005			
4/3/2017		0.0006 (J)				
4/4/2017			0.0021 (J)			0.0015 (J)
4/6/2017	0.0104			0.0006 (J)	0.0011 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)
7/13/2017	0.0064					
10/2/2017		0.0006 (J)				
10/3/2017				0.001 (J)	0.0014 (J)	0.0013 (J)
10/4/2017	0.0078		0.0018 (J)			
1/9/2018	0.0091 (J)	0.0009 (J)			0.0017 (J)	
1/10/2018				0.0012 (J)		0.0023 (J)
1/11/2018			0.0015 (J)			
7/9/2018		<0.005				
7/10/2018				0.0016 (J)	0.00063 (J)	0.0031 (J)
7/11/2018	<0.005		0.00095 (J)			
1/16/2019	<0.005	<0.005	0.0024 (J)	0.0011 (J)	<0.005	0.0023 (J)
3/25/2019	0.0029 (J)	<0.005	0.0029 (J)			
3/26/2019				0.0014 (J)	0.0029 (J)	0.0032 (J)
8/26/2019	0.0041 (J)	<0.005				
8/27/2019			0.0023 (J)		0.0035 (J)	0.0022 (J)
8/28/2019				0.0023 (J)		
10/7/2019		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.003 (J)					
10/9/2019			0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)
4/6/2020	<0.005	0.00045 (J)				
4/7/2020			0.0027 (J)	0.0011 (J)	<0.005	0.027
8/17/2020		<0.005				
8/19/2020	0.006 (J)		0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007
9/28/2020	<0.005	<0.005				0.0058
9/30/2020				0.0017 (J)	0.004 (J)	
10/1/2020			0.0027 (J)			
3/10/2021			0.0025 (J)	0.0019 (J)	0.0054	0.0055
3/11/2021	0.0047 (J)					
3/12/2021		<0.005				
9/21/2021	<0.005	<0.005	0.0027 (J)	<0.005	0.0054	
9/23/2021						0.0048 (J)
1/31/2022	<0.005	<0.005				
2/2/2022			0.0036 (J)		0.01	
2/3/2022				0.0029 (J)		0.0057
8/30/2022	0.00321 (J)	<0.005	0.0049 (J)	0.00253 (J)	0.00716	
9/1/2022						0.00568
1/31/2023	0.0025 (J)	<0.005				
2/1/2023				0.00295 (J)	0.0042 (J)	
2/2/2023			0.00556			0.00433 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	0.094
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	0.059
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.087
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.075
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.11
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
11/20/2002	<0.005	<0.005	<0.005	0.011	<0.005	0.15
6/6/2003	<0.005	<0.005	<0.005	<0.005	<0.005	1.2 (O)
12/12/2003	<0.005	<0.005	0.0064	<0.005	<0.005	0.27 (O)
5/26/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
12/7/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
6/21/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.065
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081
4/4/2006				<0.005		0.077
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
8/30/2006				<0.005		0.08
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.085
2/15/2007				<0.005		0.09
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
9/11/2007				<0.005		0.088
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.088
3/11/2008				<0.005		0.071
6/23/2008	<0.005	<0.005	<0.005			
6/24/2008				<0.005	<0.005	0.097
11/3/2008				<0.005		0.089
12/4/2008	<0.005	<0.005	<0.005	<0.005		
12/5/2008					<0.005	0.092
3/25/2009				<0.005		0.095
7/8/2009	<0.005	<0.005	<0.005	<0.005	0.0052	0.11
9/14/2009				<0.005		0.099
12/20/2009				<0.005	<0.005	0.1
12/21/2009	<0.005	<0.005	<0.005			
3/4/2010				<0.005		0.074
6/20/2010	<0.005	<0.005	<0.005	<0.005	0.0068	
6/21/2010						0.056
9/14/2010				<0.005		0.067
1/6/2011	<0.005		<0.005			
1/7/2011		<0.005		<0.005	<0.005	0.066
4/15/2011				<0.005		0.08
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	0.054
9/25/2011				<0.005		0.085
1/17/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
1/18/2012						0.089
4/4/2012				<0.005		0.0473
7/9/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
7/10/2012						0.07
10/9/2012				<0.005		0.088
1/17/2013	<0.005	<0.005	<0.005			
1/18/2013				<0.005	0.0089	0.063
4/5/2013				<0.005		0.06
7/16/2013	<0.005	<0.005	<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.005	0.011	0.063
10/11/2013				0.005		0.059
1/13/2014	<0.005	<0.005	<0.005		0.017	
1/14/2014				<0.005		0.077
4/3/2014				<0.005		0.091
7/8/2014	<0.005	<0.005	<0.005			
7/9/2014				<0.005	0.014	0.08
10/24/2014				<0.005		0.073
1/13/2015	<0.005	<0.005	<0.005		0.011	
1/14/2015				<0.005		0.079
5/10/2015				<0.005		
5/11/2015						0.058
7/16/2015	<0.005	<0.005	<0.005		0.02	0.068
7/17/2015				<0.005		
10/6/2015				<0.005		0.078
1/17/2016				0.002 (J)	0.014	0.089
1/18/2016		<0.005	<0.005			
1/19/2016	<0.005					
4/26/2016				0.00183 (J)		0.0731
7/26/2016	<0.005		<0.005			
7/27/2016		<0.005		0.0021 (J)	0.0303	
7/28/2016						0.0627
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				0.0024 (J)	0.0533	0.0551
10/25/2016				<0.005	0.0551	0.0466
10/26/2016	<0.005	<0.005	<0.005			
1/4/2017	<0.005	<0.005				0.0444
1/5/2017			<0.005	0.0024 (J)	0.0437	
4/3/2017					0.0713	
4/4/2017				0.003 (J)		
4/5/2017		0.0006 (J)				0.0591
4/6/2017	<0.005		<0.005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.005			0.0019 (J)	0.0745	
7/12/2017			<0.005			0.0776
10/2/2017				0.0026 (J)	0.0723	
10/3/2017	<0.005					0.0813
10/4/2017		0.0009 (J)	<0.005			
1/9/2018				0.0021 (J)	0.0731	
1/10/2018			0.0006 (J)			0.085
1/11/2018	<0.005	<0.005				
7/9/2018				0.0019 (J)		
7/10/2018					0.09	0.067
7/11/2018	<0.005	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.005	<0.005			0.13	0.079
3/26/2019			0.00058 (J)	0.0023 (J)	0.1	0.089
3/27/2019	<0.005	<0.005				
8/27/2019	<0.005	<0.005	<0.005	0.0017 (J)	0.17	
8/28/2019						0.091
10/8/2019	<0.005		<0.005	0.0017 (J)	0.13	0.088
10/9/2019		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	<0.005	<0.005		0.0018 (J)	0.24	0.091
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	<0.005			0.0012 (J)	0.28	0.045
9/28/2020			<0.005			
9/29/2020	<0.005	<0.005		<0.005		
9/30/2020					0.24	0.044
3/10/2021	<0.005	<0.005				
3/12/2021					0.16	
3/15/2021			<0.005			
3/16/2021				<0.005		0.064
9/21/2021	<0.005	<0.005	<0.005			
9/22/2021				0.0014 (J)		0.081
9/23/2021					0.21	
2/1/2022						0.095
2/2/2022				0.0036 (J)		
2/3/2022	<0.005	0.0016 (J)	0.0025 (J)		0.23	
8/30/2022		<0.005		<0.005		
8/31/2022	<0.005		<0.005		0.259	
9/1/2022						0.0987
2/1/2023	<0.005	<0.005	<0.005			0.115
2/2/2023				0.00261 (J)	0.207	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	<0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				<0.005
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		0.29	0.013 (O)	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		0.2	<0.005	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		0.19	<0.005	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		0.058	<0.005	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		0.18	<0.005	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.22	0.0061	<0.005	<0.005
7/17/2013	<0.005	<0.005	0.45	<0.005	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		0.52	0.006	<0.005	<0.005
7/9/2014	<0.005	<0.005		<0.005		<0.005
7/10/2014			0.4		0.0027 (J)	
1/12/2015			0.43			
1/13/2015		<0.005				
1/14/2015	<0.005			<0.005	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				<0.005		<0.005
7/18/2015	<0.005		0.26		<0.005	
1/17/2016		<0.005	0.34	0.0065		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		<0.005				
7/28/2016			0.209	<0.005		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.002 (J)	
8/31/2016		<0.005			0.0017 (J)	<0.005
9/1/2016	<0.005		0.215	0.0039 (J)		
10/25/2016			0.307	<0.005		
10/26/2016	<0.005	<0.005			<0.005	
10/27/2016						<0.005
1/4/2017			0.311	<0.005	<0.005	
1/5/2017	<0.005	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	0.317	0.0031 (J)		
4/5/2017	0.0011 (J)					
4/6/2017					0.0006 (J)	<0.005
7/11/2017			0.299		0.0012 (J)	
7/12/2017						<0.005
7/13/2017	0.0016 (J)	<0.005		<0.005		
10/2/2017			0.216			
10/3/2017		<0.005		<0.005		
10/4/2017	0.0019 (J)				0.0025 (J)	<0.005
1/9/2018				0.0033 (J)		
1/10/2018		0.0006 (J)	0.347			
1/11/2018	0.0015 (J)				0.0006 (J)	<0.005
7/9/2018			0.37			
7/10/2018		<0.005		0.0027 (J)		
7/11/2018	0.00082 (J)				0.0011 (J)	<0.005
1/16/2019	<0.005					
1/17/2019				0.0022 (J)		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.44			
3/25/2019			0.41			
3/26/2019	0.0015 (J)			0.0045 (J)		
3/27/2019					<0.005	<0.005
7/30/2019		0.00039 (J)				
8/27/2019		<0.005			0.00044 (J)	
8/28/2019	0.0011 (J)		0.43	0.002 (J)		<0.005
10/8/2019				0.0028 (J)		
10/9/2019	0.0011 (J)	<0.005	0.35		<0.005	<0.005
4/7/2020				<0.005	0.00043 (J)	
4/8/2020	0.0013 (J)	0.00094 (J)	0.33			0.00084 (J)
8/18/2020	<0.005	<0.005	0.3	0.0059	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	0.0012 (J)		0.31	0.0029 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0009 (J)					
3/12/2021			0.27			
3/15/2021		<0.005				
3/16/2021				0.0098		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.23	<0.005		<0.005
2/1/2022	<0.005		0.22	0.02		
2/2/2022		<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.465	0.0271		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005
2/1/2023	<0.005		0.389			<0.005
2/2/2023		<0.005		0.0323	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			<0.005
1/21/2021	<0.005	<0.005	
3/11/2021	<0.005	<0.005	0.00092 (J)
9/22/2021	<0.005	<0.005	
9/23/2021			<0.005
2/1/2022		<0.005	
2/3/2022	<0.005		<0.005
8/31/2022	<0.005		<0.005
9/1/2022		<0.005	
2/1/2023	<0.005		
2/2/2023		<0.005	<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	0.11	0.16	0.16	0.22	0.16	0.044
11/21/2000	0.12		0.16	0.13	0.21	0.047
1/20/2001	0.11	0.18	0.21	0.19	0.23	0.051
3/14/2001	0.11	0.14	0.18	0.27	0.22	0.048
7/16/2001	0.11	0.14	0.18	0.37	0.22	0.054
11/1/2001	0.11	0.14	0.15	0.61 (O)	0.23	0.063
4/25/2002	0.058	0.088	0.16	0.19	0.15	0.032
6/6/2003	0.19	0.14	0.29	0.72 (O)	0.13	0.046
12/12/2003	0.1	0.13	0.18	0.054	0.034	0.034
5/26/2004	0.084	0.09	0.16	0.18	0.13	0.035
12/7/2004	0.094	0.11	0.16	0.24	0.13	0.024
6/21/2005	0.089	0.084	0.15	0.2	0.07	0.039
12/12/2005	0.089	0.1	0.15	0.074	0.04	0.042
4/4/2006		0.089				
6/27/2006	0.096	0.1	0.19	0.075	0.041	0.033
8/30/2006		0.12				
12/4/2006	0.092	0.086	0.26	0.092	0.048	0.04
2/15/2007		0.088				
6/23/2007	0.08	0.089	0.24	0.089	0.12	0.044
9/11/2007		0.092				
12/11/2007	0.067	0.077	0.21	0.072	0.12	0.049
3/11/2008		0.082				
6/23/2008	0.056	0.086				
6/24/2008			0.13	0.049	0.17	0.038
11/3/2008		0.088				
12/4/2008	0.054	0.081				
12/5/2008			0.12	0.067	0.093	0.06
3/25/2009		0.069				
7/7/2009	0.034	0.078	0.17	0.04	0.06	0.043
9/14/2009		0.079				
12/20/2009	0.034	0.081				0.065
12/21/2009			0.2	0.044	0.11	
3/4/2010		0.065				
6/20/2010	0.062	0.078		0.036	0.11	0.095
6/21/2010			0.22			
9/14/2010		0.076				
1/6/2011				0.075		0.093
1/7/2011	0.039	0.074	0.12		0.025	
4/15/2011		0.065				
7/7/2011	0.036	0.081		0.13	0.025	0.095
7/8/2011			0.15			
9/25/2011		0.078				
1/17/2012	0.041	0.082		0.21		0.1
1/18/2012			0.15		0.03	
4/4/2012		0.0861				
7/9/2012	0.15			0.2		0.11
7/10/2012		0.082	0.14		0.028	
10/9/2012		0.09				
1/17/2013				0.19		0.12
1/18/2013	0.15	0.083	0.15		0.058	
4/5/2013		0.078				
7/16/2013				0.076		0.081

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/17/2013	0.13	0.083	0.14		0.086	
10/11/2013		0.078				
1/13/2014	0.16			0.14		0.096
1/14/2014		0.081	0.16		0.1	
4/3/2014		0.077				
7/9/2014	0.11	0.073	0.12	0.12	0.082	0.066
10/24/2014		0.087				
1/12/2015			0.13			
1/13/2015	0.083			0.13		0.068
1/14/2015		0.079			0.094	
5/10/2015		0.076				
7/16/2015	0.094		0.11	0.12		0.07
7/17/2015		0.061			0.11	
10/6/2015		0.067				
1/17/2016						0.062
1/18/2016	0.22	0.068	0.095	0.12	0.11	
4/26/2016		0.0596				
7/27/2016	0.192			0.112		0.0417
7/28/2016		0.0701			0.105	
7/29/2016			0.0883			
8/30/2016		0.0687		0.135	0.106	0.0545
9/1/2016	0.415 (O)		0.123			
10/24/2016		0.07				
10/25/2016	0.173					0.0504
10/26/2016			0.0863	0.103	0.107	
1/3/2017		0.061		0.118		
1/4/2017						0.0534
1/5/2017					0.107	
1/6/2017	0.167		0.0758			
4/3/2017		0.0612				
4/4/2017			0.091			0.0549
4/6/2017	0.136			0.162	0.111	
7/11/2017		0.0624				
7/12/2017			0.0941	0.157	0.106	0.0614
7/13/2017	0.0891					
10/2/2017		0.0618				
10/3/2017				0.127	0.105	0.0436
10/4/2017	0.113		0.0994			
1/9/2018	0.0901	0.0574			0.0969	
1/10/2018				0.158		0.053
1/11/2018			0.088			
7/9/2018		0.056				
7/10/2018				0.31	0.087	0.059
7/11/2018	0.065		0.071			
1/16/2019	0.062	0.062	0.083	0.054	0.013 (J)	0.054
3/25/2019	0.054	0.064	0.077			
3/26/2019				0.057	0.012 (J)	0.055
8/26/2019	0.11	0.065				
8/27/2019			0.076		0.013	0.054
8/28/2019				0.1		
10/7/2019		0.069				
10/8/2019	0.1					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/9/2019			0.076	0.13	0.014 (J)	0.058
4/6/2020	0.072	0.057				
4/7/2020			0.09	0.098	0.01 (J)	0.05
8/17/2020		0.051				
8/19/2020	0.1		0.076	0.1	0.064	0.057
9/28/2020	0.095	0.05				0.051
9/30/2020				0.16	0.092	
10/1/2020			0.077			
3/10/2021			0.07	0.096	0.027	0.052
3/11/2021	0.07					
3/12/2021		0.052				
9/21/2021	0.073	0.049	0.098	0.076	0.077	
9/23/2021						0.062
1/31/2022	0.1	0.051				
2/2/2022			0.17		0.026	
2/3/2022				0.062		0.051
8/30/2022	0.133	0.0512	0.134	0.051	0.0266	
9/1/2022						0.0583
1/31/2023	0.126	0.0499				
2/1/2023				0.101	0.0233	
2/2/2023			0.101			0.0466

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	0.1	0.075	<0.005	0.11	0.028	0.076
11/21/2000	0.082	0.072	0.01	0.15	0.035	0.075
1/20/2001	0.083	0.086	<0.005	0.1	0.032	0.053
3/14/2001	0.075	0.088	0.01	0.095	0.036	0.055
7/16/2001	0.091	0.084	<0.005	0.28 (O)	0.036	0.041
11/1/2001	0.068	0.13	<0.005	0.16	0.036	0.045
4/25/2002	0.066	0.24 (O)	<0.005	0.054	0.045	0.055
6/6/2003	0.085	0.28 (O)	0.028	0.063	0.083 (O)	0.48 (O)
12/12/2003	0.072	0.27 (O)	0.019	0.041	0.094 (O)	0.13 (O)
5/26/2004	0.055	0.31 (O)	<0.005	0.059	0.034	0.055
12/7/2004	0.066	0.46 (O)	0.009	0.076	0.042	0.072
6/21/2005	0.033	0.053	0.0089	0.042	0.039	0.061
12/12/2005	0.034	0.1	0.026	0.048	0.043	0.047
4/4/2006				0.05		0.042
6/27/2006	0.029	0.098	0.029	0.036	0.031	0.042
8/30/2006				0.059		0.05
12/4/2006	0.02	0.068	0.017	0.062	0.043	0.044
2/15/2007				0.079		0.041
6/23/2007	0.017	0.042	0.014	0.03	0.031	0.044
9/11/2007				0.053		0.04
12/11/2007	0.013	0.04	0.011	0.075	0.044	0.0035
3/11/2008				0.052		0.034
6/23/2008	0.012	0.041	0.018			
6/24/2008				0.039	0.057	0.042
11/3/2008				0.082		0.049
12/4/2008	0.011	0.035	0.019	0.079		
12/5/2008					0.041	0.05
3/25/2009				0.093		0.052
7/8/2009	0.012	0.036	0.011	0.039	0.058	0.046
9/14/2009				0.061		0.048
12/20/2009				0.088	0.062	0.062
12/21/2009	0.011	0.028	0.01			
3/4/2010				0.077		0.058
6/20/2010	0.0089	0.025	0.0081	0.075	0.03	
6/21/2010						0.041
9/14/2010				0.093		0.036
1/6/2011	0.014		0.012			
1/7/2011		0.037		0.13	0.049	0.054
4/15/2011				0.086		0.049
7/7/2011	0.018	0.039	0.015	0.051	0.05	0.063
9/25/2011				0.056		0.037
1/17/2012	0.23	0.045	0.0086	0.052	0.044	
1/18/2012						0.034
4/4/2012				0.0519		0.0446
7/9/2012	0.17	0.032	0.01	0.048	0.045	
7/10/2012						0.033
10/9/2012				0.065		0.041
1/17/2013	0.2	0.033	0.014			
1/18/2013				0.045	0.049	0.036
4/5/2013				0.047		0.036
7/16/2013	0.11	0.027	0.012			
7/17/2013				0.032	0.039	0.054

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
10/11/2013				0.028		0.052
1/13/2014	0.083	0.027	0.015		0.038	
1/14/2014				0.036		0.051
4/3/2014				0.038		0.047
7/8/2014	0.066	0.037	0.017			
7/9/2014				0.03	0.031	0.08
10/24/2014				0.025		0.072
1/13/2015	0.053	0.023	0.019		0.041	
1/14/2015				0.04		0.047
5/10/2015				0.026		
5/11/2015						0.053
7/16/2015	0.052	0.03	0.022		0.041	0.059
7/17/2015				0.029		
10/6/2015				0.03		0.053
1/17/2016				0.038	0.048	0.056
1/18/2016		0.032	0.026			
1/19/2016	0.048					
4/26/2016				0.025		0.0721
7/26/2016	0.051		0.0236			
7/27/2016		0.0191		0.0248	0.0487	
7/28/2016						0.0534
8/31/2016	0.0565	0.019	0.0273			
9/1/2016				0.0346	0.0403	0.0445
10/25/2016				0.0248	0.0329	0.0464
10/26/2016	0.0591	0.0197	0.0238			
1/4/2017	0.0598	0.0174				0.0379
1/5/2017			0.0218	0.0245	0.0392	
4/3/2017					0.0439	
4/4/2017				0.0342		
4/5/2017		0.0174				0.0534
4/6/2017	0.0813		0.0204			
7/10/2017		0.0172				
7/11/2017	0.0302			0.0276	0.051	
7/12/2017			0.0161			0.0944
10/2/2017				0.0274	0.047	
10/3/2017	0.103					0.135 (O)
10/4/2017		0.0162	0.0185			
1/9/2018				0.0222	0.0431	
1/10/2018			0.0166			0.0603
1/11/2018	0.166	0.018				
7/9/2018				0.026		
7/10/2018					0.047	0.16 (O)
7/11/2018	0.12	0.014	0.019			
1/16/2019			0.019	0.028		
1/17/2019	0.039	0.017			0.042	0.13
3/26/2019			0.026	0.034	0.047	0.14
3/27/2019	0.053	0.017				
8/27/2019	0.12	0.017	0.024	0.067	0.049	
8/28/2019						0.09
10/8/2019	0.13		0.024	0.085	0.057	0.13
10/9/2019		0.019				
4/7/2020	0.14	0.017		0.073	0.033	0.13

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.027			
8/17/2020		0.018	0.024			
8/18/2020	0.12			0.028	0.03	0.32
9/28/2020			0.029			
9/29/2020	0.14	0.018		0.026		
9/30/2020					0.034	0.14
3/10/2021	0.13	0.028				
3/12/2021					0.038	
3/15/2021			0.034			
3/16/2021				0.037		0.16
9/21/2021	0.12	0.023	0.037			
9/22/2021				0.11		0.26
9/23/2021					0.062	
2/1/2022						0.23
2/2/2022				0.1		
2/3/2022	0.17	0.025	0.038		0.061	
8/30/2022		0.0275		0.0773		
8/31/2022	0.115		0.0379		0.055	
9/1/2022						0.165
2/1/2023	0.146	0.0256	0.0367			0.163
2/2/2023				0.0617	0.0557	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	0.16					0.093
11/21/2000	0.17	0.046				0.095
1/20/2001	0.16	0.036				0.089
3/14/2001	0.17	0.03				0.088
7/16/2001	0.19	0.032				0.096
11/1/2001	0.18	0.029				0.094
4/25/2002	0.15	0.021				0.085
6/6/2003	0.13	0.032				0.09
12/12/2003	0.18	0.021				0.084
5/26/2004	0.17	0.035				0.08
12/7/2004	0.19	0.031				0.098
6/21/2005	0.18	0.028				0.084
12/12/2005	0.17	0.024				0.07
6/27/2006	0.17	0.03				0.083
12/4/2006	0.21	0.031				0.072
6/23/2007	0.17	0.037				0.087
12/11/2007	0.18	0.034				0.082
6/23/2008						0.1
6/24/2008	0.14	0.038				
12/4/2008		0.038				0.12
12/5/2008	0.19					
7/8/2009	0.2	0.053				0.14
12/20/2009		0.047				
12/21/2009	0.23					0.15
6/20/2010		0.046				0.21
6/21/2010	0.25		0.062	0.16	0.11	
1/6/2011		0.063				
1/7/2011	0.21		0.039	0.095	0.12	0.2
7/7/2011			0.06			
7/8/2011	0.13		0.043	0.1	0.094	0.18
1/17/2012		0.06				
1/18/2012	0.26		0.042	0.12	0.087	0.18
7/9/2012		0.05				
7/10/2012	0.19		0.039	0.097	0.1	0.16
1/17/2013		0.058				
1/18/2013	0.17		0.04	0.1	0.078	0.19
7/17/2013	0.18	0.041	0.055	0.069	0.062	0.17
1/13/2014		0.058				
1/14/2014	0.18		0.059	0.086	0.073	0.2
7/9/2014	0.16	0.048		0.065		0.16
7/10/2014			0.067		0.13	
1/12/2015			0.061			
1/13/2015		0.048				
1/14/2015	0.16			0.084	0.065	0.17
7/16/2015		0.048				
7/17/2015				0.071		0.18
7/18/2015	0.012		0.13		0.073	
1/17/2016		0.049	0.08	0.079		
1/18/2016	0.13				0.062	0.2
7/27/2016		0.0796				
7/28/2016			0.164	0.0626		0.234
7/29/2016	0.181				0.0575	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0429			0.0693	0.284
9/1/2016	0.203		0.0976	0.077		
10/25/2016			0.0702	0.0217		
10/26/2016	0.177	0.113 (O)			0.0966	
10/27/2016						0.244
1/4/2017			0.0999	0.0617	0.0975	
1/5/2017	0.142	0.0526				
1/6/2017						0.305
4/4/2017		0.0503	0.136	0.0761		
4/5/2017	0.106					
4/6/2017					0.064	0.249
7/11/2017			0.145		0.0778	
7/12/2017						0.256
7/13/2017	0.0686	0.0529		0.0428		
10/2/2017			0.148			
10/3/2017		0.057		0.0376		
10/4/2017	0.0589				0.156	0.356
1/9/2018				0.0704		
1/10/2018		0.0527	0.0788			
1/11/2018	0.0412				0.0702	0.226
7/9/2018			0.087			
7/10/2018		0.054		0.061		
7/11/2018	0.049				0.12	0.29
1/16/2019	0.063					
1/17/2019				0.061		
1/18/2019					0.052	0.21
1/21/2019		0.05	0.069			
3/25/2019			0.085			
3/26/2019	0.025			0.084		
3/27/2019					0.057	0.19
7/30/2019		0.052				
8/27/2019		0.053			0.097	
8/28/2019	0.026		0.078	0.063		0.17
10/8/2019				0.079		
10/9/2019	0.032	0.05	0.078		0.065	0.18
4/7/2020				0.054	0.1	
4/8/2020	0.055	0.061	0.19			0.15
8/18/2020	0.074	0.05	0.38	0.18	0.085	
8/19/2020						0.17
9/29/2020		0.049				
9/30/2020	0.035		0.35	0.19	0.045	
10/1/2020						0.15
3/10/2021					0.049	0.15
3/11/2021	0.044					
3/12/2021			0.34			
3/15/2021		0.053				
3/16/2021				0.18		
9/21/2021					0.036	
9/22/2021	0.058	0.047	0.42	0.046		0.15
2/1/2022	0.055		0.36	0.24		
2/2/2022		0.052				0.15
2/3/2022					0.038	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			0.21	0.191		
8/31/2022	0.0375				0.0741	
9/1/2022		0.0508				0.151
2/1/2023	0.0262		0.194			0.128
2/2/2023		0.0461		0.196	0.0456	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	0.076	0.047	0.03
9/22/2021	0.076	0.038	
9/23/2021			0.024
2/1/2022		0.036	
2/3/2022	0.079		0.024
8/31/2022	0.0765		0.0216
9/1/2022		0.0267	
2/1/2023	0.06		
2/2/2023		0.0268	0.0253

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2016		0.0002 (J)		0.0002 (J)	<0.0005	<0.0005
9/1/2016	0.0017 (J)		0.0004 (J)			
10/24/2016		<0.0005				
10/25/2016	0.0002 (J)					<0.0005
10/26/2016			0.0001 (J)	0.0001 (J)	<0.0005	
1/3/2017		0.0002 (J)		0.0001 (J)		
1/4/2017						<0.0005
1/5/2017					<0.0005	
1/6/2017	0.0003 (J)		0.0001 (J)			
4/3/2017		0.0002 (J)				
4/4/2017			0.0001 (J)			<0.0005
4/6/2017	0.0004 (J)			0.0003 (J)	<0.0005	
7/11/2017		0.0002 (J)				
7/12/2017			<0.0005	0.0002 (J)	<0.0005	<0.0005
7/13/2017	0.001 (J)					
10/2/2017		0.0002 (J)				
10/3/2017				0.0002 (J)	<0.0005	<0.0005
10/4/2017	0.0002 (J)		0.0001 (J)			
1/9/2018	<0.0005	0.0002 (J)			<0.0005	
1/10/2018				0.0003 (J)		<0.0005
1/11/2018			0.0001 (J)			
7/9/2018		0.0002 (J)				
7/10/2018				0.00028 (J)	<0.0005	<0.0005
7/11/2018	<0.0005		<0.0005			
8/26/2019	<0.0005	0.00021 (J)				
8/27/2019			<0.0005		<0.0005	<0.0005
8/28/2019				7.6E-05 (J)		
10/7/2019		0.00024 (J)				
10/8/2019	<0.0005					
10/9/2019			<0.0005	<0.0005	<0.0005	<0.0005
4/6/2020	<0.0005	0.00017 (J)				
4/7/2020			<0.0005	<0.0005	<0.0005	<0.0005
8/17/2020		0.00019 (J)				
8/19/2020	<0.0005		<0.0005	<0.0005	5E-05 (J)	<0.0005
9/28/2020	<0.0005	0.00021 (J)				<0.0005
9/30/2020				6.5E-05 (J)	4.6E-05 (J)	
10/1/2020			<0.0005			
3/10/2021			<0.0005	8.2E-05 (J)	<0.0005	<0.0005
3/11/2021	0.00028 (J)					
3/12/2021		0.00023 (J)				
9/21/2021	<0.0005	0.00016 (J)	<0.0005	9.9E-05 (J)	<0.0005	
9/23/2021						<0.0005
1/31/2022	<0.0005	0.00016 (J)				
2/2/2022			<0.0005		<0.0005	
2/3/2022				0.00014 (J)		<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.000219 (J)	<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2022						<0.0005
1/31/2023	<0.0005	0.000206 (J)				
2/1/2023				<0.0005	<0.0005	
2/2/2023			<0.0005			<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005	0.0011 (J)	<0.0005			
9/1/2016				0.0001 (J)	<0.0005	0.0001 (J)
10/25/2016				<0.0005	<0.0005	<0.0005
10/26/2016	<0.0005	0.0011 (J)	<0.0005			
1/4/2017	<0.0005	0.0009 (J)				9E-05 (J)
1/5/2017			<0.0005	<0.0005	<0.0005	
4/3/2017					<0.0005	
4/4/2017				9E-05 (J)		
4/5/2017		0.0008 (J)				9E-05 (J)
4/6/2017	<0.0005		<0.0005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.0005			<0.0005	<0.0005	
7/12/2017			<0.0005			<0.0005
10/2/2017				<0.0005	<0.0005	
10/3/2017	<0.0005					<0.0005
10/4/2017		0.0006 (J)	<0.0005			
1/9/2018				<0.0005	<0.0005	
1/10/2018			<0.0005			0.0001 (J)
1/11/2018	<0.0005	0.0006 (J)				
7/9/2018				6.2E-05 (J)		
7/10/2018					<0.0005	6E-05 (J)
7/11/2018	<0.0005	0.00061 (J)	5.8E-05 (J)			
8/27/2019	<0.0005	0.00047 (J)	<0.0005	<0.0005	<0.0005	
8/28/2019						8E-05 (J)
10/8/2019	<0.0005		<0.0005	<0.0005	<0.0005	9.8E-05 (J)
10/9/2019		0.00046 (J)				
4/7/2020	<0.0005	0.00051 (J)		<0.0005	<0.0005	<0.0005
4/8/2020			<0.0005			
8/17/2020		0.00046 (J)	<0.0005			
8/18/2020	<0.0005			<0.0005	<0.0005	6.8E-05 (J)
9/28/2020			<0.0005			
9/29/2020	<0.0005	0.00043 (J)		<0.0005		
9/30/2020					<0.0005	8.9E-05 (J)
3/10/2021	4.7E-05 (J)	0.00054				
3/12/2021					<0.0005	
3/15/2021			<0.0005			
3/16/2021				<0.0005		<0.0005
9/21/2021	<0.0005	0.00047 (J)	<0.0005			
9/22/2021				<0.0005		6E-05 (J)
9/23/2021					<0.0005	
2/1/2022						<0.0005
2/2/2022				<0.0005		
2/3/2022	<0.0005	0.00056	<0.0005		<0.0005	
8/30/2022		0.000663		<0.0005		
8/31/2022	<0.0005		<0.0005		<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.0005
2/1/2023	<0.0005	0.000634	<0.0005			<0.0005
2/2/2023				<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.0005
11/21/2000	<0.002	<0.0005				<0.0005
1/20/2001	<0.002	<0.0005				<0.0005
3/14/2001	<0.002	<0.0005				<0.0005
7/16/2001	<0.002	<0.0005				<0.0005
11/1/2001	<0.002	<0.0005				<0.0005
4/25/2002	<0.002	<0.0005				<0.0005
8/31/2016		<0.0005			0.0002 (J)	0.0003 (J)
9/1/2016	0.0014 (J)		<0.0005	<0.0005		
10/25/2016			<0.0005	<0.0005		
10/26/2016	0.0016 (J)	0.0003 (J)			0.0002 (J)	
10/27/2016						0.0003 (J)
1/4/2017			<0.0005	<0.0005	0.0001 (J)	
1/5/2017	0.0019 (J)	<0.0005				
1/6/2017						0.0002 (J)
4/4/2017		9E-05 (J)	<0.0005	<0.0005		
4/5/2017	0.0024 (J)					
4/6/2017					<0.0005	0.0003 (J)
7/11/2017			<0.0005		<0.0005	
7/12/2017						0.0003 (J)
7/13/2017	0.0034	<0.0005		<0.0005		
10/2/2017			<0.0005			
10/3/2017		<0.0005		<0.0005		
10/4/2017	0.0037				0.0001 (J)	0.0002 (J)
1/9/2018				<0.0005		
1/10/2018		<0.0005	<0.0005			
1/11/2018	0.0033				<0.0005	0.0003 (J)
7/9/2018			<0.0005			
7/10/2018		<0.0005		<0.0005		
7/11/2018	0.0038				7E-05 (J)	0.0003 (J)
7/30/2019		<0.0005				
8/27/2019		<0.0005			9E-05 (J)	
8/28/2019	0.0017 (J)		<0.0005	<0.0005		0.00022 (J)
10/8/2019				<0.0005		
10/9/2019	0.0018 (J)	<0.0005	<0.0005		<0.0005	0.00023 (J)
4/7/2020				<0.0005	<0.0005	
4/8/2020	0.0017 (J)	8.8E-05 (J)	<0.0005			0.00019 (J)
8/18/2020	0.0016 (J)	5.1E-05 (J)	<0.0005	<0.0005	7.6E-05 (J)	
8/19/2020						0.00022 (J)
9/29/2020		7.5E-05 (J)				
9/30/2020	0.0013 (J)		<0.0005	<0.0005	<0.0005	
10/1/2020						0.0002 (J)
3/10/2021					<0.0005	0.00019 (J)
3/11/2021	0.0012					
3/12/2021			<0.0005			
3/15/2021		7.3E-05 (J)				
3/16/2021				<0.0005		
9/21/2021					<0.0005	
9/22/2021	0.0017	<0.0005	<0.0005	<0.0005		0.00017 (J)
2/1/2022	0.002		<0.0005	<0.0005		
2/2/2022		<0.0005				0.00018 (J)
2/3/2022					<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.0005	<0.0005		
8/31/2022	0.00258				<0.0005	
9/1/2022		<0.0005				<0.0005
2/1/2023	0.00206		<0.0005			0.000215 (J)
2/2/2023		<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.0005	<0.0005	8.4E-05 (J)
9/22/2021	<0.0005	<0.0005	
9/23/2021			<0.0005
2/1/2022		<0.0005	
2/3/2022	<0.0005		<0.0005
8/31/2022	<0.0005		<0.0005
9/1/2022		<0.0005	
2/1/2023	<0.0005		
2/2/2023		<0.0005	<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.117		1.09	1.41	0.875
9/1/2016	11.6		6.48			
10/24/2016		0.126				
10/25/2016	21.4					1.22
10/26/2016			7.57	2.5	1.83	
1/3/2017		0.124		3.39		
1/4/2017						1.3
1/5/2017					3.07	
1/6/2017	20.1		8.34			
4/3/2017		0.105				
4/4/2017			8.18			1.19
4/6/2017	21.8			2.76	3.19	
7/11/2017		0.136				
7/12/2017			7.51	3.55	3.06	1.37
7/13/2017	16.3					
10/2/2017		0.107				
10/3/2017				2.72	2.69	0.765
10/4/2017	21.5		8.88			
1/9/2018	13.9	0.123			2.81	
1/10/2018				3.21		0.876
1/11/2018			6.95			
7/9/2018		0.11				
7/10/2018				7	2.9	0.94
7/11/2018	11.7		6.4			
1/16/2019	9.3	0.13	5.3	5	7.7	0.91
3/25/2019	8.5	0.098	4.4			
3/26/2019				4	7.4	0.77
10/7/2019		0.12				
10/8/2019	6.4					
10/9/2019			5.7	6.8	6.3	0.93
4/6/2020	6.1	0.14				
4/7/2020			5.5	4.6	5.6	1
9/28/2020	4.6	0.15				0.69
9/30/2020				4	4.2	
10/1/2020			5.2			
3/10/2021			4.9	3.9	6.9	0.63
3/11/2021	8					
3/12/2021		0.11				
9/21/2021	4.4	0.13	6.4	4.1	4.2	
9/23/2021						0.59
1/31/2022	3.9	0.13				
2/2/2022			6.2		6.2	
2/3/2022				4.9		0.59
8/30/2022	5.72	0.152	4.95	4.66	7.13	
9/1/2022						0.728
1/31/2023	5.72	0.177				
2/1/2023				6.19	8.23	
2/2/2023			5.35			0.599

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	0.0688 (J)	5.1	0.261			
9/1/2016				0.071 (J)	9.01 (O)	1.82
10/25/2016				0.0819 (J)	1.66	1.26
10/26/2016	0.083 (J)	5.74	0.211			
1/4/2017	0.0738	6.56				1.46
1/5/2017			0.179	0.0813	1.1	
4/3/2017					1.21	
4/4/2017				0.0723		
4/5/2017		6.49				2
4/6/2017	0.0754		0.112			
7/10/2017		8.13				
7/11/2017	0.0614			0.0734	1.44	
7/12/2017			0.0882			2.95
10/2/2017				0.0748	1.59	
10/3/2017	0.0838					4.15
10/4/2017		5.18	0.116			
1/9/2018				0.0679	1.35	
1/10/2018			0.101			3.68
1/11/2018	0.169	5.16				
7/9/2018				0.061		
7/10/2018					1.2	5.2
7/11/2018	0.3	8.5	0.098			
1/16/2019			0.11	0.046		
1/17/2019	0.065	7			1.1	8.6
3/26/2019			0.35	0.037 (J)	0.95	7.4
3/27/2019	0.089	6.1				
10/8/2019	0.22		0.18	0.048	1.1	8.4
10/9/2019		8.2				
4/7/2020	0.67	5.3		0.061 (J)	0.96	10.5
4/8/2020			0.28			
9/28/2020			0.24			
9/29/2020	1.2	4.7		0.053		
9/30/2020					0.86	8.1
3/10/2021	1.8	6.1				
3/12/2021					0.81	
3/15/2021			0.31			
3/16/2021				0.08		10
9/21/2021	0.8	5.8	0.38			
9/22/2021				0.052		11.5
9/23/2021					0.72	
2/1/2022						16
2/2/2022				0.044		
2/3/2022	0.1	7.5	0.37		0.71	
8/30/2022		8.21		0.046		
8/31/2022	1.65		0.231		0.719	
9/1/2022						15.9
2/1/2023	4.49	10.1	0.208			17.1
2/2/2023				0.0451	0.679	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0196 (J)			12.8	0.096 (JO)
9/1/2016	0.408		3.34	0.62		
10/25/2016			2.54	0.0658 (J)		
10/26/2016	0.5	0.05 (J)			9.81	
10/27/2016						0.0281 (J)
1/4/2017			1.91	0.36	8.94	
1/5/2017	0.676	0.0162 (J)				
1/6/2017						0.0189 (J)
4/4/2017		0.019 (J)	2.77	0.509		
4/5/2017	0.69					
4/6/2017					0.733	0.0181 (J)
7/11/2017			4.14		0.852	
7/12/2017						0.0211 (J)
7/13/2017	0.888	0.023 (J)		0.126		
10/2/2017			4.65			
10/3/2017		0.0266 (J)		0.1		
10/4/2017	1.02				6.05	0.0254 (J)
1/9/2018				0.783		
1/10/2018		0.0203 (J)	1.79			
1/11/2018	1.28				0.838	0.018 (J)
7/9/2018			1.7			
7/10/2018		0.026 (J)		0.5		
7/11/2018	1.6				3.2	0.02 (J)
1/16/2019	1.5					
1/17/2019				0.43		
1/18/2019					0.37	0.018 (J)
1/21/2019		0.018 (J)	1.1			
3/25/2019			1			
3/26/2019	1.2			0.61		
3/27/2019					0.37	0.016 (J)
7/30/2019		0.02 (J)				
10/8/2019				1		
10/9/2019	1.3	0.024 (J)	0.79		0.39	0.019 (J)
4/7/2020				0.24	3.1	
4/8/2020	0.99	0.031 (J)	2.5			0.023 (J)
9/29/2020		0.024 (J)				
9/30/2020	0.86		9.9	2.3	0.25	
10/1/2020						0.028 (J)
3/10/2021					0.32	0.022 (J)
3/11/2021	0.85					
3/12/2021			15.6			
3/15/2021		0.084				
3/16/2021				3.5		
9/21/2021					0.19	
9/22/2021	1.4	0.017 (J)	11.3	0.095		0.015 (J)
2/1/2022	1.8		15.7	4.4		
2/2/2022		0.023 (J)				0.011 (J)
2/3/2022					0.18	
8/30/2022			8.14	5.08		
8/31/2022	2.51				0.271	
9/1/2022		0.0204				0.0187
2/1/2023	1.83		11.9			0.0186

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		0.022		5.15	0.302	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.013 (J)
1/21/2021	0.018 (J)	0.014 (J)	
3/11/2021	0.03 (J)	0.019 (J)	0.017 (J)
9/22/2021	0.033 (J)	0.014 (J)	
9/23/2021			0.012 (J)
2/1/2022		0.014 (J)	
2/3/2022	0.03 (J)		0.013 (J)
8/31/2022	0.0283		0.0166
9/1/2022		0.0303	
2/1/2023	0.0272		
2/2/2023		0.0218	0.0181

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
11/21/2000	<0.001		<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016		<0.001		<0.001	<0.001	<0.001
9/1/2016	0.0007 (J)		0.0002 (J)			
10/24/2016		<0.001				
10/25/2016	<0.001					<0.001
10/26/2016			<0.001	<0.001	<0.001	
1/3/2017		<0.001		<0.001		
1/4/2017						0.0001 (J)
1/5/2017					<0.001	
1/6/2017	0.0001 (J)		9E-05 (J)			
4/3/2017		<0.001				
4/4/2017			9E-05 (J)			7E-05 (J)
4/6/2017	<0.001			<0.001	<0.001	
7/11/2017		<0.001				
7/12/2017			<0.001	<0.001	<0.001	<0.001
7/13/2017	<0.001					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.001	<0.001
10/4/2017	<0.001		<0.001			
1/9/2018	<0.001	<0.001			<0.001	
1/10/2018				<0.001		<0.001
1/11/2018			0.0002 (J)			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.001	<0.001
7/11/2018	<0.001		<0.001			
8/26/2019	<0.001	<0.001				
8/27/2019			<0.001		<0.001	<0.001
8/28/2019				<0.001		
10/7/2019		<0.001				
10/8/2019	<0.001					
10/9/2019			<0.001	<0.001	<0.001	<0.001
4/6/2020	<0.001	<0.001				
4/7/2020			<0.001	<0.001	<0.001	<0.001
8/17/2020		<0.001				
8/19/2020	<0.001		<0.001	<0.001	<0.001	<0.001
9/28/2020	<0.001	<0.001				<0.001
9/30/2020				<0.001	<0.001	
10/1/2020			<0.001			
3/10/2021			<0.001	<0.001	<0.001	<0.001
3/11/2021	<0.001					
3/12/2021		<0.001				
9/21/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
9/23/2021						<0.001
1/31/2022	<0.001	<0.001				
2/2/2022			<0.001		<0.001	
2/3/2022				<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/1/2022						<0.001
1/31/2023	<0.001	<0.001				
2/1/2023				<0.001	<0.001	
2/2/2023			<0.001			<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
11/21/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2016	0.0002 (J)	<0.001	<0.001			
9/1/2016				0.0001 (J)	<0.001	<0.001
10/25/2016				0.0002 (J)	<0.001	<0.001
10/26/2016	0.0001 (J)	<0.001	<0.001			
1/4/2017	0.0001 (J)	<0.001				<0.001
1/5/2017			<0.001	0.0002 (J)	<0.001	
4/3/2017					<0.001	
4/4/2017				0.0002 (J)		
4/5/2017		<0.001				<0.001
4/6/2017	0.0002 (J)		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.001			0.0002 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	0.0003 (J)					<0.001
10/4/2017		<0.001	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0006 (J)	<0.001				
7/9/2018				0.00017 (J)		
7/10/2018					<0.001	<0.001
7/11/2018	0.0004 (J)	<0.001	<0.001			
8/27/2019	0.00044 (J)	<0.001	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	0.00043 (J)		<0.001	<0.001	<0.001	<0.001
10/9/2019		<0.001				
4/7/2020	0.00051 (J)	<0.001		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00058 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00077 (J)	<0.001		0.00012 (J)		
9/30/2020					<0.001	<0.001
3/10/2021	0.0009	<0.001				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	0.00036 (J)	<0.001	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	0.00019 (J)	<0.001	<0.001		<0.001	
8/30/2022		<0.001		<0.001		
8/31/2022	0.000431 (J)		<0.001		<0.001	
9/1/2022						<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/1/2023	0.000926 (J)	<0.001	<0.001			<0.001
2/2/2023				<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
11/21/2000	<0.001	<0.001				<0.001
1/20/2001	<0.001	<0.001				<0.001
3/14/2001	<0.001	<0.001				<0.001
7/16/2001	<0.001	<0.001				<0.001
11/1/2001	<0.001	<0.001				<0.001
4/25/2002	<0.001	<0.001				<0.001
8/31/2016		<0.001			8E-05 (J)	<0.001
9/1/2016	<0.001		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	<0.001	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			<0.001	<0.001	0.0001 (J)	
1/5/2017	<0.001	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	<0.001					
4/6/2017					0.0001 (J)	<0.001
7/11/2017			<0.001		<0.001	
7/12/2017						<0.001
7/13/2017	<0.001	<0.001		<0.001		
10/2/2017			<0.001			
10/3/2017		<0.001		<0.001		
10/4/2017	<0.001				0.0002 (J)	<0.001
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	<0.001				0.0002 (J)	<0.001
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	<0.001				0.00023 (J)	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	<0.001		<0.001	<0.001		<0.001
10/8/2019				<0.001		
10/9/2019	<0.001	<0.001	<0.001		0.00012 (J)	<0.001
4/7/2020				<0.001	0.00054 (J)	
4/8/2020	<0.001	<0.001	<0.001			<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	0.00024 (J)	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	<0.001		<0.001	<0.001	0.00024 (J)	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	<0.001					
3/12/2021			0.00018 (J)			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	<0.001	<0.001	0.00013 (J)	<0.001		<0.001
2/1/2022	<0.001		0.0002 (J)	<0.001		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			<0.001	<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	<0.001				<0.001	
9/1/2022		<0.001				<0.001
2/1/2023	<0.001		<0.001			<0.001
2/2/2023		<0.001		<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.001	<0.001	0.00019 (J)
9/22/2021	0.00027 (J)	<0.001	
9/23/2021			<0.001
2/1/2022		<0.001	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		<0.001
9/1/2022		<0.001	
2/1/2023	<0.001		
2/2/2023		<0.001	<0.001

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		23.8		14.3	4.68	29.4
9/1/2016	5.59		9.91			
10/24/2016		22.5				
10/25/2016	6.43					28.3
10/26/2016			8.56	18.6	5.45	
1/3/2017		22.1		18.1		
1/4/2017						33.4
1/5/2017					5.35	
1/6/2017	8.13		8.18			
4/3/2017		24.6 (J)				
4/4/2017			8.12			34.6
4/6/2017	7.72			16.2	5.41	
7/11/2017		23.5				
7/12/2017			8	18.1	4.81	38
7/13/2017	4.57					
10/2/2017		22.7				
10/3/2017				15.2	5.17	25.5
10/4/2017	6.41		12.5			
1/9/2018	4.68	23.2			4.73	
1/10/2018				15.5		36.5
1/11/2018			12.9			
7/9/2018		24.6 (J)				
7/10/2018				30.6	4.5	45.5
7/11/2018	3.9		8.6			
1/16/2019	4.3	27.7	68.8	33.3	10.1	46.5
3/25/2019	3.9	31.7	55.6			
3/26/2019				36.1	9	46.3
10/7/2019		31.6				
10/8/2019	3.5					
10/9/2019			46.7	17.7	10.1	51.2
4/6/2020	3.1	35.8				
4/7/2020			62.1	34.1	7.8	31.1
9/28/2020	3.3	25.6				70.7
9/30/2020				70.4	27.5	
10/1/2020			48.4			
3/10/2021			263	134	55.9	67.2
3/11/2021	2.4					
3/12/2021		21.4				
9/21/2021	2.7	18.5	67.5	140	110	
9/23/2021						69.1
1/31/2022	3.4	17.2				
2/2/2022			98.2		293	
2/3/2022				130		58.2
8/30/2022	3.56	15	79.3	70.3	81.8	
9/1/2022						46.9
1/31/2023	3.33	14.8				
2/1/2023				38.3	60.4	
2/2/2023			91.8			35.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	18.8	105	2.77			
9/1/2016				194	119	93.8
10/25/2016				100	106	94.1
10/26/2016	16.6	101	2.25			
1/4/2017	17.6	94.9				88.2
1/5/2017			2.27	107	115	
4/3/2017					131	
4/4/2017				153		
4/5/2017		92.5				106
4/6/2017	30.9		2.04			
7/10/2017		90.3				
7/11/2017	17.7			125	155	
7/12/2017			2.25			149
10/2/2017				126	137	
10/3/2017	39.8					217
10/4/2017		74.6	2.19			
1/9/2018				119	135	
1/10/2018			2.28			161
1/11/2018	65.6	78.1				
7/9/2018				123		
7/10/2018					129	205
7/11/2018	53	72.2	2.3			
1/16/2019			2.3	120		
1/17/2019	19.8 (J)	64.7			137	187
3/26/2019			2.4	84.2	124	204
3/27/2019	25.1	63.1				
10/8/2019	69.2		2.3	146	129	205
10/9/2019		54.2				
4/7/2020	84.7	52.1		135	129	225
4/8/2020			2.5			
9/28/2020			2.9			
9/29/2020	123	42		30.8		
9/30/2020					109	177
3/10/2021	126	53.1				
3/12/2021					101	
3/15/2021			2.4			
3/16/2021				34.4		188
9/21/2021	87	63.4	3.6			
9/22/2021				185		267
9/23/2021					146	
2/1/2022						267
2/2/2022				245		
2/3/2022	65.4	63.7	2.7		144	
8/30/2022		70.8		144		
8/31/2022	115		2.54		135	
9/1/2022						255
2/1/2023	187	67.5	2.89			294
2/2/2023				137	131	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.371 (J)			127	6.9
9/1/2016	71.9		67.2	40.5		
10/25/2016			50.1	3.91		
10/26/2016	80.3	5.84			127	
10/27/2016						8.2
1/4/2017			80.4	15.2	113	
1/5/2017	94.4	0.379 (J)				
1/6/2017						7.97
4/4/2017		0.993	108	32.3		
4/5/2017	104					
4/6/2017					42.7	7.95
7/11/2017			136		46	
7/12/2017						8.37
7/13/2017	124	0.388 (J)		8.92		
10/2/2017			105			
10/3/2017		0.251 (J)		7.88		
10/4/2017	136				115	8.57
1/9/2018				40.5		
1/10/2018		0.177 (J)	60.1			
1/11/2018	139				47.6	9.78
7/9/2018			75.9			
7/10/2018		0.17 (J)		29.8		
7/11/2018	122				73.7	9.2
1/16/2019	80.5					
1/17/2019				27.6		
1/18/2019					30.6	8.1
1/21/2019		0.19 (J)	60			
3/25/2019			74.8			
3/26/2019	68.8			60.1		
3/27/2019					28.8	7.7
7/30/2019		0.43				
10/8/2019				49.5		
10/9/2019	56.6	0.18	80.1		30.1	6
4/7/2020				12.5	65.7	
4/8/2020	53.1	0.24 (J)	175			5.3
9/29/2020		0.18 (J)				
9/30/2020	53.5		292	98.4	20.9	
10/1/2020						5.5
3/10/2021					18.7	5.3
3/11/2021	67					
3/12/2021			241			
3/15/2021		0.22 (J)				
3/16/2021				104		
9/21/2021					15.3	
9/22/2021	94.6	0.19 (J)	266	5.8		5
2/1/2022	90.8		259	125		
2/2/2022		0.16 (J)				4.6
2/3/2022					14.6	
8/30/2022			193	131		
8/31/2022	102				23.2	
9/1/2022		0.236				5
2/1/2023	86.8		183			4.44

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		0.143 (J)		123	21.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			4.9
1/21/2021	4.4	2.8	
3/11/2021	12.4	5.4	4.7
9/22/2021	14.9	4.7	
9/23/2021			3.4
2/1/2022		3.7	
2/3/2022	11.6		3
8/31/2022	10.3		3.38
9/1/2022		2.75	
2/1/2023	8.46		
2/2/2023		2.5	3.09

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		15		31	60	5.5
9/1/2016	190		160			
10/24/2016		13				
10/25/2016	175 (D)					5.1
10/26/2016			110	24	67	
1/3/2017		13		29		
1/4/2017						6.9
1/5/2017					70	
1/6/2017	180		67			
4/3/2017		14				
4/4/2017			80			6.5
4/6/2017	200			27	76	
7/11/2017		13				
7/12/2017			120	31	64	6.5
7/13/2017	200					
10/2/2017		15				
10/3/2017				27	73	4.5
10/4/2017	260		130			
1/9/2018	210	13			61	
1/10/2018				59		6.9
1/11/2018			60			
7/9/2018		15.4				
7/10/2018				172	60.2	6.2
7/11/2018	177		75.9			
1/16/2019	165	16	20.2	49.7	54.1	6.6
3/25/2019	147	17.7	19.7			
3/26/2019				47.9	51.8	7
10/7/2019		18				
10/8/2019	125					
10/9/2019			32.1	239	49.7	7.2
4/6/2020	30.2	13.5				
4/7/2020			14.5	44.3	56.4	7.7
9/28/2020	113	13.7				13.8
9/30/2020				24.1	53.9	
10/1/2020			15.7			
3/10/2021			16	25.7	42.4	8.5
3/11/2021	96.7					
3/12/2021		14.1				
9/21/2021	92.2	12.2	13.9	38.8	53.8	
9/23/2021						8.8
1/31/2022	83.4	11.2				
2/2/2022			14.5		42.3	
2/3/2022				38.5		8
8/30/2022	74.4	9.93	65	76.8	52	
9/1/2022						9.17
1/31/2023	70.1	11				
2/1/2023				172	51.6	
2/2/2023			82.4			6.47

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	3.5	210	4.3			
9/1/2016				60	10	43
10/25/2016				36	6.5	34
10/26/2016	2.5	200	4.9			
1/4/2017	3.8	160				29
1/5/2017			4.1	37	10	
4/3/2017					7.3	
4/4/2017				47		
4/5/2017		140				36
4/6/2017	7.1		3.7			
7/10/2017		88				
7/11/2017	3.1			34	5.7	
7/12/2017			2.6			44
10/2/2017				34	4.4	
10/3/2017	46					58
10/4/2017		100	3			
1/9/2018				24	5.7	
1/10/2018			3.4			36
1/11/2018	100	78				
7/9/2018				25.9		
7/10/2018					3.1	57
7/11/2018	53.7	66.9	3.2			
1/16/2019			3.8	29.2		
1/17/2019	6.6	52			3.2	48.9
3/26/2019			3.2	21.1	3	5.1
3/27/2019	11.9	45.6				
10/8/2019	89		4	40.2	2.9	46.4
10/9/2019		44.1				
4/7/2020	103	32.5		41.6	3.4	49.3
4/8/2020			4.5			
9/28/2020			4.3			
9/29/2020	143	24.3		10.6		
9/30/2020					1.7	39.6
3/10/2021	188	48.7				
3/12/2021					2.3	
3/15/2021			7.6			
3/16/2021				15.8		44.9
9/21/2021	103	63.8	7.9			
9/22/2021				28		55.8
9/23/2021					7.1	
2/1/2022						61.5
2/2/2022				29.6		
2/3/2022	83.4	57	8.8		5.1	
8/30/2022		58.4		26.7		
8/31/2022	110		6.69		4.83	
9/1/2022						57.2
2/1/2023	138	64.5	6.17			47.1
2/2/2023				18.2	4.69	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		7.8			320	17
9/1/2016	610		16	5.9		
10/25/2016			8.1	4.4		
10/26/2016	570	12			450	
10/27/2016						17
1/4/2017			13	7.7	330	
1/5/2017	710	7.4				
1/6/2017						16
4/4/2017		8.7	23	8		
4/5/2017	860					
4/6/2017					50	17
7/11/2017			31		70	
7/12/2017						18
7/13/2017	860	8.3		5.4		
10/2/2017			30			
10/3/2017		9		4.4		
10/4/2017	1000				360	18
1/9/2018				4.4		
1/10/2018		8.2	9.7			
1/11/2018	940				74	16
7/9/2018			10.8			
7/10/2018		7.3		6.3		
7/11/2018	864				164	16.2
1/16/2019	469					
1/17/2019				5.4		
1/18/2019					11	17.5
1/21/2019		6.9	5.1			
3/25/2019			9.4			
3/26/2019	439			11.9		
3/27/2019					11.5	18.9
7/30/2019		7.1				
10/8/2019				7.8		
10/9/2019	330	7	5.4		25.3	19
4/7/2020				4.7	146	
4/8/2020	277	5.2	20.2			16.9
9/29/2020		5.4				
9/30/2020	257		34.9	23.7	8.5	
10/1/2020						16.8
3/10/2021					48.2	18.3
3/11/2021	334					
3/12/2021			31.9			
3/15/2021		6.4				
3/16/2021				25.3		
9/21/2021					9.4	
9/22/2021	517	7.4	38.9	6		19.3
2/1/2022	549		33.4	29.3		
2/2/2022		6.9				17.5
2/3/2022					10.8	
8/30/2022			24.4	29.4		
8/31/2022	694				51.2	
9/1/2022		6.59				17.6
2/1/2023	470		15.3			18.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		5.42		23.3	18.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			6.1
1/21/2021	6.1	6.1	
3/11/2021	9.9	6	6.4
9/22/2021	7.1	4.9	
9/23/2021			5.5
2/1/2022		5.4	
2/3/2022	7.5		6.3
8/31/2022	7.84		6.6
9/1/2022		6.3	
2/1/2023	7.71		
2/2/2023		6.04	6.24

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0013	<0.01	0.021	0.03	0.016	<0.01
11/21/2000	<0.0013		0.017	<0.01	0.023	<0.01
1/20/2001	<0.0013	<0.01	0.03	0.028	0.025	<0.01
3/14/2001	<0.0013	<0.01	0.019	0.052 (O)	0.021	<0.01
7/16/2001	<0.0013	<0.01	0.029	0.08 (O)	0.019	<0.01
11/1/2001	<0.0013	<0.01	0.021	0.13 (O)	0.022	<0.01
4/25/2002	<0.0013	<0.01	0.03	0.021	0.019	<0.01
11/20/2002		0.0051	0.038	0.053 (O)	0.024	<0.01
6/6/2003	0.037	0.014	0.028	0.064 (O)	0.021	0.005
12/12/2003	0.0044	0.011	0.027	<0.01	0.0066	<0.01
5/26/2004	<0.0013	<0.01	0.021	0.012	0.013	<0.01
12/7/2004	<0.0013	<0.01	0.016	0.019	0.013	<0.01
6/21/2005	<0.0013	<0.01	0.015	0.02	0.0067	<0.01
12/12/2005	<0.0013	<0.01	0.022	<0.01	0.0033	0.002
4/4/2006		<0.01				
6/27/2006	<0.0013	<0.01	0.027	0.0015	0.0047	<0.01
8/30/2006		<0.01				
12/4/2006	0.0015	<0.01	0.025	0.0034	0.0084	<0.01
2/15/2007		<0.01				
6/23/2007	<0.0013	<0.01	0.023	<0.01	0.01	<0.01
9/11/2007		<0.01				
12/11/2007	0.0016	<0.01	0.018	<0.01	0.0049	<0.01
3/11/2008		<0.01				
6/23/2008	0.0019	<0.01				
6/24/2008			0.022	<0.01	0.032 (O)	<0.01
11/3/2008		<0.01				
12/4/2008	<0.0013	<0.01				
12/5/2008			0.023	0.0016	0.009	<0.01
3/25/2009		<0.01				
7/7/2009	0.0037	<0.01	0.012	<0.01	0.0044	0.0013
9/14/2009		<0.01				
12/20/2009	0.0016	<0.01				<0.01
12/21/2009			0.019	<0.01	0.0055	
3/4/2010		<0.01				
6/20/2010	<0.0013	<0.01		<0.01	0.002	<0.01
6/21/2010			0.01			
9/14/2010		<0.01				
1/6/2011				0.0017		<0.01
1/7/2011	0.0033	<0.01	0.023		0.0039	
4/15/2011		<0.01				
7/7/2011	0.0044	<0.01		0.008	0.0031	<0.01
7/8/2011			0.017			
9/25/2011		0.0021				
1/17/2012	0.0038	<0.01		0.0082		<0.01
1/18/2012			0.0114		0.0023	
4/4/2012		<0.01				
7/9/2012	0.022			0.01		<0.01
7/10/2012		<0.01	0.014		0.0022	
10/9/2012		<0.01				
1/17/2013				0.01		<0.01
1/18/2013	0.034	<0.01	0.015		<0.0013	
4/5/2013		<0.01				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0061		<0.01
7/17/2013	0.032	<0.01	0.011		<0.0013	
10/11/2013		<0.01				
1/13/2014	0.04			0.002		<0.01
1/14/2014		<0.01	0.019		0.0013	
4/3/2014		<0.01				
7/9/2014	0.036	<0.01	0.012	<0.01	<0.0013	0.0011 (J)
10/24/2014		<0.01				
1/12/2015			0.016			
1/13/2015	0.03			<0.01		<0.01
1/14/2015		<0.01			0.0015	
5/10/2015		<0.01				
7/16/2015	0.039		0.0084	<0.01		0.0011 (J)
7/17/2015		<0.01			0.0011 (J)	
10/6/2015		<0.01				
1/17/2016						<0.01
1/18/2016	0.068	<0.01	0.014	<0.01	0.0011 (J)	
4/26/2016		<0.01				
7/27/2016	0.05			0.0006 (J)		0.0016 (J)
7/28/2016		<0.01			0.001 (J)	
7/29/2016			0.0077 (J)			
8/30/2016		<0.01		<0.01	0.0013 (J)	0.0015 (J)
9/1/2016	0.119 (O)		0.015			
10/24/2016		<0.01				
10/25/2016	0.0519					0.0018 (J)
10/26/2016			0.0106	<0.01	0.0014 (J)	
1/3/2017		<0.01		0.001 (J)		
1/4/2017						0.0021 (J)
1/5/2017					0.002 (J)	
1/6/2017	0.0536		0.0098 (J)			
4/3/2017		0.0004 (J)				
4/4/2017			0.0101			0.002 (J)
4/6/2017	0.0447 (J)			0.0013 (J)	0.0034 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)
7/13/2017	0.0269					
10/2/2017		<0.01				
10/3/2017				0.0012 (J)	0.0022 (J)	0.0014 (J)
10/4/2017	0.0378		0.0097 (J)			
1/9/2018	0.0283 (J)	<0.01			0.0019 (J)	
1/10/2018				0.0016 (J)		0.0017 (J)
1/11/2018			0.0109			
7/9/2018		<0.01				
7/10/2018				0.0055 (J)	0.0023 (J)	0.0021 (J)
7/11/2018	0.018 (J)		0.0055 (J)			
1/16/2019	0.018 (J)	<0.01	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)
3/25/2019	0.017 (J)	<0.01	0.002 (J)			
3/26/2019				0.072	0.017 (J)	0.0018 (J)
8/26/2019	0.024 (J)	0.001 (J)				
8/27/2019			0.0027 (J)		0.0097 (J)	0.0062 (J)
8/28/2019				0.0071 (J)		
10/7/2019		0.00052 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.021 (J)					
10/9/2019			0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)
4/6/2020	0.015 (J)	<0.01				
4/7/2020			0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)
8/17/2020		0.00082 (J)				
8/19/2020	0.015 (J)		0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)
9/28/2020	0.014 (J)	0.00071 (J)				0.0024 (J)
9/30/2020				0.0018 (J)	0.0045 (J)	
10/1/2020			0.002 (J)			
3/10/2021			0.003 (J)	0.001 (J)	0.006	0.0023 (J)
3/11/2021	0.02 (J)					
3/12/2021		0.00074 (J)				
9/21/2021	0.013 (J)	<0.01	0.0018 (J)	<0.01	0.0035 (J)	
9/23/2021						0.0023 (J)
1/31/2022	0.015 (J)	<0.01				
2/2/2022			0.003 (J)		0.0033 (J)	
2/3/2022				0.0014 (J)		0.0019 (J)
8/30/2022	0.0129	<0.01	<0.01	<0.01	0.00356 (J)	
9/1/2022						<0.01
1/31/2023	0.0112	<0.01				
2/1/2023				0.00655 (J)	0.00365 (J)	
2/2/2023			0.00502 (J)			<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/21/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/25/2002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/20/2002	0.006	0.002	<0.01	0.014	0.0058	0.0041
6/6/2003	0.0082	<0.01	0.003	<0.01	0.0068	0.063 (O)
12/12/2003	0.0023	<0.01	<0.01	<0.01	0.0041	0.0059
5/26/2004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/7/2004	<0.01	<0.01	<0.01	<0.01	0.0026	<0.01
6/21/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/12/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/4/2006				<0.01		<0.01
6/27/2006	<0.01	<0.01	<0.01	<0.01	0.0013	<0.01
8/30/2006				<0.01		<0.01
12/4/2006	0.0021	0.0032	0.0017	0.0042	<0.01	0.0036
2/15/2007				<0.01		<0.01
6/23/2007	0.0017	<0.01	<0.01	<0.01	<0.01	0.0016
9/11/2007				<0.01		<0.01
12/11/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2008				<0.01		<0.01
6/23/2008	<0.01	0.0016	<0.01			
6/24/2008				<0.01	0.0014	<0.01
11/3/2008				<0.01		0.0025
12/4/2008	<0.01	<0.01	<0.01	<0.01		
12/5/2008					<0.01	<0.01
3/25/2009				<0.01		<0.01
7/8/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/14/2009				<0.01		<0.01
12/20/2009				<0.01	<0.01	<0.01
12/21/2009	<0.01	<0.01	<0.01			
3/4/2010				<0.01		<0.01
6/20/2010	<0.01	<0.01	<0.01	<0.01	<0.01	
6/21/2010						<0.01
9/14/2010				<0.01		<0.01
1/6/2011	<0.01		<0.01			
1/7/2011		<0.01		0.0016	<0.01	0.0018
4/15/2011				0.0034		<0.01
7/7/2011	0.0023	<0.01	0.0019	<0.01	<0.01	<0.01
9/25/2011				0.0013		<0.01
1/17/2012	<0.01	<0.01	<0.01	<0.01	<0.01	
1/18/2012						<0.01
4/4/2012				<0.01		<0.01
7/9/2012	0.0017	<0.01	<0.01	<0.01	<0.01	
7/10/2012						<0.01
10/9/2012				0.0019		0.0018
1/17/2013	<0.01	<0.01	<0.01			
1/18/2013				0.0017	<0.01	<0.01
4/5/2013				0.0019		<0.01
7/16/2013	<0.01	<0.01	<0.01			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.0017	<0.01	<0.01
10/11/2013				0.0013		<0.01
1/13/2014	<0.01	<0.01	<0.01		<0.01	
1/14/2014				0.001		<0.01
4/3/2014				0.0031		<0.01
7/8/2014	<0.01	<0.01	<0.01			
7/9/2014				0.0012 (J)	<0.01	<0.01
10/24/2014				<0.01		<0.01
1/13/2015	<0.01	<0.01	<0.01		<0.01	
1/14/2015				0.0013		<0.01
5/10/2015				<0.01		
5/11/2015						<0.01
7/16/2015	<0.01	0.001 (J)	<0.01		<0.01	<0.01
7/17/2015				0.001 (J)		
10/6/2015				<0.01		<0.01
1/17/2016				0.0012 (J)	<0.01	<0.01
1/18/2016		<0.01	<0.01			
1/19/2016	<0.01					
4/26/2016				<0.01		<0.01
7/26/2016	0.0005 (J)		<0.01			
7/27/2016		0.0014 (J)		0.0008 (J)	0.0007 (J)	
7/28/2016						0.0006 (J)
8/31/2016	0.001 (J)	0.0012 (J)	0.0011 (J)			
9/1/2016				0.0015 (J)	0.0011 (J)	0.0011 (J)
10/25/2016				<0.01	<0.01	<0.01
10/26/2016	<0.01	0.0012 (J)	<0.01			
1/4/2017	<0.01	0.0012 (J)				<0.01
1/5/2017			<0.01	0.001 (J)	<0.01	
4/3/2017					0.0015 (J)	
4/4/2017				0.001 (J)		
4/5/2017		0.0013 (J)				0.001 (J)
4/6/2017	0.0007 (J)		0.0011 (J)			
7/10/2017		0.0014 (J)				
7/11/2017	0.0006 (J)			0.0008 (J)	0.0013 (J)	
7/12/2017			0.0007 (J)			0.0011 (J)
10/2/2017				0.0009 (J)	0.0013 (J)	
10/3/2017	0.0007 (J)					0.0009 (J)
10/4/2017		0.0011 (J)	0.0008 (J)			
1/9/2018				0.0006 (J)	0.0012 (J)	
1/10/2018			0.0007 (J)			0.0007 (J)
1/11/2018	0.0098 (J)	0.001 (J)				
7/9/2018				<0.01		
7/10/2018					<0.01	<0.01
7/11/2018	<0.01	<0.01	0.0019 (J)			
1/16/2019			<0.01	<0.01		
1/17/2019	<0.01	0.0028 (J)			<0.01	0.01 (J)
3/26/2019			<0.01	<0.01	<0.01	<0.01
3/27/2019	<0.01	<0.01				
8/27/2019	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)	
8/28/2019						0.0011 (J)
10/8/2019	0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)
10/9/2019		0.00081 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00094 (J)	0.00082 (J)		0.00074 (J)	0.0014 (J)	<0.01
4/8/2020			0.00058 (J)			
8/17/2020		0.001 (J)	0.00077 (J)			
8/18/2020	0.0015 (J)			0.00059 (J)	0.0018 (J)	0.0012 (J)
9/28/2020			0.00062 (J)			
9/29/2020	0.0011 (J)	0.00085 (J)		<0.01		
9/30/2020					0.0016 (J)	0.00098 (J)
3/10/2021	0.0013 (J)	0.00091 (J)				
3/12/2021					0.0031 (J)	
3/15/2021			<0.01			
3/16/2021				<0.01		0.0012 (J)
9/21/2021	<0.01	<0.01	<0.01			
9/22/2021				<0.01		0.0018 (J)
9/23/2021					0.0013 (J)	
2/1/2022						<0.01
2/2/2022				<0.01		
2/3/2022	0.0011 (J)	0.0018 (J)	<0.01		0.0016 (J)	
8/30/2022		<0.01		<0.01		
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022						<0.01
2/1/2023	<0.01	<0.01	<0.01			<0.01
2/2/2023				<0.01	<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.01
11/21/2000	<0.01	<0.01				<0.01
1/20/2001	<0.01	<0.01				<0.01
3/14/2001	<0.01	<0.01				<0.01
7/16/2001	<0.01	<0.01				<0.01
11/1/2001	<0.01	<0.01				<0.01
4/25/2002	<0.01	<0.01				<0.01
11/20/2002	<0.01	<0.01				0.014
6/6/2003	<0.01	<0.01				<0.01
12/12/2003	0.036 (O)	<0.01				<0.01
5/26/2004	<0.01	<0.01				<0.01
12/7/2004	0.0021	<0.01				0.0039
6/21/2005	<0.01	<0.01				0.002
12/12/2005	<0.01	<0.01				<0.01
6/27/2006	<0.01	<0.01				<0.01
12/4/2006	<0.01	<0.01				0.0019
6/23/2007	<0.01	<0.01				0.0015
12/11/2007	<0.01	<0.01				<0.01
6/23/2008						0.0015
6/24/2008	<0.01	<0.01				
12/4/2008		<0.01				<0.01
12/5/2008	<0.01					
7/8/2009	<0.01	<0.01				<0.01
12/20/2009		<0.01				
12/21/2009	<0.01					<0.01
6/20/2010		<0.01				0.0015
6/21/2010	<0.01		<0.01	0.0019	<0.01	
1/6/2011		<0.01				
1/7/2011	<0.01		0.0018	0.0017	<0.01	<0.01
7/7/2011			<0.01			
7/8/2011	0.0013		0.0019	0.0023	<0.01	<0.01
1/17/2012		<0.01				
1/18/2012	<0.01		<0.01	<0.01	<0.01	<0.01
7/9/2012		<0.01				
7/10/2012	<0.01		0.0013	<0.01	<0.01	<0.01
1/17/2013		<0.01				
1/18/2013	<0.01		0.0015	<0.01	<0.01	<0.01
7/17/2013	<0.01	<0.01	<0.01	0.0019	<0.01	<0.01
1/13/2014		<0.01				
1/14/2014	<0.01		0	<0.01	<0.01	<0.01
7/9/2014	<0.01	<0.01		<0.01		0.0011 (J)
7/10/2014			<0.01		<0.01	
1/12/2015			<0.01			
1/13/2015		<0.01				
1/14/2015	<0.01			<0.01	<0.01	<0.01
7/16/2015		<0.01				
7/17/2015				<0.01		0.0013
7/18/2015	<0.01		<0.01		<0.01	
1/17/2016		<0.01	<0.01	<0.01		
1/18/2016	<0.01				<0.01	<0.01
7/27/2016		0.0008 (J)				
7/28/2016			0.0007 (J)	0.0005 (J)		0.0011 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.0007 (J)	
8/31/2016		<0.01			<0.01	0.0024 (J)
9/1/2016	0.0011 (J)		<0.01	<0.01		
10/25/2016			<0.01	<0.01		
10/26/2016	<0.01	0.001 (J)			<0.01	
10/27/2016						<0.01
1/4/2017			<0.01	<0.01	<0.01	
1/5/2017	0.0012 (J)	<0.01				
1/6/2017						<0.01
4/4/2017		0.0008 (J)	0.0011 (J)	0.0008 (J)		
4/5/2017	0.0015 (J)					
4/6/2017					0.0006 (J)	0.0019 (J)
7/11/2017			0.0009 (J)		0.0005 (J)	
7/12/2017						0.0011 (J)
7/13/2017	0.0012 (J)	0.0006 (J)		0.0006 (J)		
10/2/2017			0.0009 (J)			
10/3/2017		<0.01		0.0005 (J)		
10/4/2017	0.0055 (J)				0.0006 (J)	0.0011 (J)
1/9/2018				0.0007 (J)		
1/10/2018		<0.01	0.0008 (J)			
1/11/2018	0.0009 (J)				<0.01	0.001 (J)
7/9/2018			<0.01			
7/10/2018		<0.01		<0.01		
7/11/2018	<0.01				<0.01	<0.01
1/16/2019	<0.01					
1/17/2019				0.01		
1/18/2019					<0.01	<0.01
1/21/2019		<0.01	<0.01			
3/25/2019			<0.01			
3/26/2019	<0.01			<0.01		
3/27/2019					<0.01	<0.01
7/30/2019		0.00065 (J)				
8/27/2019		<0.01			0.00057 (J)	
8/28/2019	0.0013 (J)		0.00089 (J)	0.00087 (J)		0.00089 (J)
10/8/2019				0.00065 (J)		
10/9/2019	0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)	0.0009 (J)
4/7/2020				<0.01	0.00049 (J)	
4/8/2020	0.00073 (J)	0.00069 (J)	0.001 (J)			0.0015 (J)
8/18/2020	0.0011 (J)	<0.01	0.0011 (J)	0.0012 (J)	0.00056 (J)	
8/19/2020						0.0013 (J)
9/29/2020		<0.01				
9/30/2020	0.00096 (J)		0.0013 (J)	0.00067 (J)	0.00064 (J)	
10/1/2020						0.0012 (J)
3/10/2021					<0.01	0.0011 (J)
3/11/2021	0.0009 (J)					
3/12/2021			0.0014 (J)			
3/15/2021		0.0011 (J)				
3/16/2021				0.00075 (J)		
9/21/2021					<0.01	
9/22/2021	<0.01	<0.01	0.0013 (J)	<0.01		<0.01
2/1/2022	0.0014 (J)		0.0036 (J)	<0.01		
2/2/2022		<0.01				0.0012 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.01	
8/30/2022			<0.01	<0.01		
8/31/2022	<0.01				<0.01	
9/1/2022		<0.01				<0.01
2/1/2023	<0.01		0.00503 (J)			<0.01
2/2/2023		<0.01		<0.01	<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.01	0.00069 (J)	0.0016 (J)
9/22/2021	<0.01	<0.01	
9/23/2021			<0.01
2/1/2022		<0.01	
2/3/2022	<0.01		<0.01
8/31/2022	<0.01		<0.01
9/1/2022		<0.01	
2/1/2023	<0.01		
2/2/2023		<0.01	<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.025	<0.005	<0.005	<0.005	<0.005	<0.001
11/21/2000	<0.025		<0.005	<0.005	<0.005	<0.001
1/20/2001	<0.025	<0.005	<0.005	<0.005	<0.005	<0.001
3/14/2001	<0.025	<0.005	<0.005	<0.005	<0.005	<0.001
7/16/2001	<0.025	<0.005	<0.005	<0.005	<0.005	<0.001
11/1/2001	<0.025	<0.005	<0.005	0.012	<0.005	<0.001
4/25/2002	<0.025	<0.005	<0.005	<0.005	<0.005	<0.001
8/30/2016		<0.005		<0.005	<0.005	<0.001
9/1/2016	0.0102		0.0024 (J)			
10/24/2016		<0.005				
10/25/2016	0.0037 (J)					<0.001
10/26/2016			0.0011 (J)	<0.005	<0.005	
1/3/2017		<0.005		<0.005		
1/4/2017						<0.001
1/5/2017					<0.005	
1/6/2017	0.0039 (J)		0.001 (J)			
4/3/2017		0.0005 (J)				
4/4/2017			0.001 (J)			<0.001
4/6/2017	0.006 (J)			<0.005	<0.005	
7/11/2017		0.0005 (J)				
7/12/2017			0.0008 (J)	<0.005	<0.005	<0.001
7/13/2017	0.0037 (J)					
10/2/2017		0.0004 (J)				
10/3/2017				<0.005	<0.005	<0.001
10/4/2017	0.0058 (J)		0.001 (J)			
1/9/2018	0.0053 (J)	0.0004 (J)			<0.005	
1/10/2018				0.0004 (J)		<0.001
1/11/2018			0.0008 (J)			
7/9/2018		<0.005				
7/10/2018				0.002 (J)	<0.005	<0.001
7/11/2018	<0.05 (O)		<0.005			
8/26/2019	0.0037 (J)	0.00042 (J)				
8/27/2019			0.0011 (J)		0.00038 (J)	<0.001
8/28/2019				0.0024 (J)		
10/7/2019		0.00046 (J)				
10/8/2019	0.0028 (J)					
10/9/2019			0.0015 (J)	0.0037 (J)	<0.005	<0.001
4/6/2020	0.0021 (J)	0.00036 (J)				
4/7/2020			0.0009 (J)	0.00053 (J)	<0.005	<0.001
8/17/2020		<0.005				
8/19/2020	0.0021 (J)		0.00072 (J)	<0.005	<0.005	<0.001
9/28/2020	<0.025	<0.005				<0.001
9/30/2020				0.00056 (J)	<0.005	
10/1/2020			0.0005 (J)			
3/10/2021			0.00069 (J)	0.0057	<0.005	<0.001
3/11/2021	0.0023 (J)					
3/12/2021		0.00058 (J)				
9/21/2021	<0.025	<0.005	<0.005	0.019	0.0049 (J)	
9/23/2021						<0.001
1/31/2022	<0.025 (o)	0.00044 (J)				
2/2/2022			0.0027 (J)		0.07	
2/3/2022				0.019		<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.00134	0.00042 (J)	0.00198	0.00401	0.0476	
9/1/2022						<0.001
1/31/2023	0.00114	0.000378 (J)				
2/1/2023				0.00291	0.0228	
2/2/2023			0.00937			<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.005	<0.01	<0.001	<0.001	<0.001	<0.001
8/31/2016	<0.005	0.0018 (J)	<0.001			
9/1/2016				<0.001	<0.001	<0.001
10/25/2016				<0.001	<0.001	<0.001
10/26/2016	<0.005	0.0016 (J)	<0.001			
1/4/2017	<0.005	0.0014 (J)				<0.001
1/5/2017			<0.001	<0.001	<0.001	
4/3/2017					<0.001	
4/4/2017				<0.001		
4/5/2017		0.0013 (J)				<0.001
4/6/2017	<0.005		<0.001			
7/10/2017		0.0013 (J)				
7/11/2017	<0.005			0.0003 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	<0.005					<0.001
10/4/2017		0.0011 (J)	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0003 (J)	0.0011 (J)				
7/9/2018				<0.001		
7/10/2018					<0.001	<0.001
7/11/2018	<0.005	0.00096 (J)	<0.001			
8/27/2019	<0.005	0.0009 (J)	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	<0.005		<0.001	<0.001	<0.001	<0.001
10/9/2019		0.00094 (J)				
4/7/2020	<0.005	0.00077 (J)		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		0.0006 (J)	<0.001			
8/18/2020	0.0004 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00055 (J)	0.00057 (J)		<0.001		
9/30/2020					<0.001	<0.001
3/10/2021	0.00082 (J)	0.00071 (J)				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	<0.005	0.00065 (J)	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	<0.005	0.00072 (J)	<0.001		<0.001	
8/30/2022		0.000786 (J)		<0.001		
8/31/2022	0.000646 (J)		<0.001		<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.001
2/1/2023	0.00118	0.000753 (J)	<0.001			<0.001
2/2/2023				<0.001	<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.01
11/21/2000	<0.01	<0.001				<0.01
1/20/2001	<0.01	<0.001				<0.01
3/14/2001	<0.01	<0.001				<0.01
7/16/2001	<0.01	<0.001				<0.01
11/1/2001	<0.01	<0.001				<0.01
4/25/2002	<0.01	<0.001				<0.01
8/31/2016		<0.001			0.001 (J)	0.0021 (J)
9/1/2016	0.0046 (J)		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	0.0046 (J)	0.0011 (J)			0.0009 (J)	
10/27/2016						0.0017 (J)
1/4/2017			<0.001	<0.001	0.0007 (J)	
1/5/2017	0.0062 (J)	<0.001				
1/6/2017						0.0017 (J)
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	0.007 (J)					
4/6/2017					<0.001	0.0017 (J)
7/11/2017			<0.001		<0.001	
7/12/2017						0.0016 (J)
7/13/2017	0.0077 (J)	0.0003 (J)		<0.001		
10/2/2017			<0.001			
10/3/2017		0.0003 (J)		<0.001		
10/4/2017	0.0073 (J)				0.0007 (J)	0.0015 (J)
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	0.0061 (J)				<0.001	0.0017 (J)
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	0.0064 (J)				<0.001	0.0017 (J)
7/30/2019		0.00032 (J)				
8/27/2019		<0.001			0.00077 (J)	
8/28/2019	0.0023 (J)		<0.001	<0.001		0.00099 (J)
10/8/2019				<0.001		
10/9/2019	0.0024 (J)	<0.001	<0.001		<0.001	0.00099 (J)
4/7/2020				<0.001	0.00037 (J)	
4/8/2020	0.0024 (J)	0.00036 (J)	<0.001			0.001 (J)
8/18/2020	0.0025 (J)	<0.001	<0.001	<0.001	<0.001	
8/19/2020						0.0011 (J)
9/29/2020		<0.001				
9/30/2020	0.0018 (J)		<0.001	<0.001	<0.001	
10/1/2020						0.00099 (J)
3/10/2021					<0.001	0.00096 (J)
3/11/2021	0.0019 (J)					
3/12/2021			<0.001			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	0.0028 (J)	<0.001	<0.001	<0.001		0.00082 (J)
2/1/2022	0.0036 (J)		<0.001	<0.001		
2/2/2022		<0.001				0.00096 (J)
2/3/2022					<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.001	<0.001		
8/31/2022	0.00358				<0.001	
9/1/2022		<0.001				0.00093 (J)
2/1/2023	0.00265		<0.001			0.00083 (J)
2/2/2023		<0.001		<0.001	<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.001	<0.001	<0.001
9/22/2021	<0.001	<0.001	
9/23/2021			<0.001
2/1/2022		<0.001	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		<0.001
9/1/2022		<0.001	
2/1/2023	<0.001		
2/2/2023		<0.001	<0.001

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		2.72		1.81	2.19	2.36
9/1/2016	11		5.27			
10/24/2016		2.96				
10/25/2016	10.5					2.02
10/26/2016			2.32	2.03	2.67	
1/3/2017		2.76		1.85		
1/4/2017						2.1
1/5/2017					3.74	
1/6/2017	6.81		5.1			
4/3/2017		1.36				
4/4/2017			5			1.39 (U)
4/6/2017	8.93			2.66	2.36	
7/11/2017		1.85				
7/12/2017			2.69	2.1	1.54	1.63
7/13/2017	8.51					
10/2/2017		1.9				
10/3/2017				2	3.63	1.84
10/4/2017	3.85		4.82			
1/9/2018	4.28	2.39			2.07	
1/10/2018				2.55		2.11
1/11/2018			4.48			
7/9/2018		1.49				
7/10/2018				3.14	1.63	1.29
7/11/2018	5.99		2.69			
8/26/2019	6.03	3.03				
8/27/2019			2.97		4.63	2.41
8/28/2019				3.74		
10/7/2019		2.83				
10/8/2019	33.8 (o)					
10/9/2019			2.17	7.23	5.45	3.13
4/6/2020	25.7 (o)	2.83				
4/7/2020			2.44	3.57	6.25	1.97
8/17/2020		2.63				
8/19/2020	5.45		3.1	2.49	4.53	1.91
9/28/2020	22.4 (o)	2.08				1.29
9/30/2020				4.45	6.39	
10/1/2020			2.6			
3/10/2021			2.11	4.67	4.61	1.7
3/11/2021	3.22					
3/12/2021		2.17				
9/21/2021	10.3	0.73 (U)	2.45	3.1	5.07	
9/23/2021						1.48
1/31/2022	8.46 (U)	1.01				
2/2/2022			3.17		4.79	
2/3/2022				2.65		1
8/30/2022	2.75	1.97	5.57	3.36	3.2	
9/1/2022						0.911 (U)
1/31/2023	3.86	1.96 (U)				
2/1/2023				3.28	4.93	
2/2/2023			5.79			3.54

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	2.2	2.61	1.23			
9/1/2016				1.28	2.45	1.99
10/25/2016				1.54	1.04 (U)	1.98
10/26/2016	1.96	3.28	0.641 (U)			
1/4/2017	1.88	3.77				1.72
1/5/2017			0.657 (U)	0.715 (U)	1.36	
4/3/2017					0.697 (U)	
4/4/2017				0.699 (U)		
4/5/2017		3.25				1.72
4/6/2017			0.439 (U)			
4/8/2017	0.893 (U)					
7/10/2017		1.55				
7/11/2017	1.89			1.12	0.754 (U)	
7/12/2017			0.414 (U)			1.11
10/2/2017				0.855 (U)	1.52	
10/3/2017	4.73					2.13
10/4/2017		1.68	1.33			
1/9/2018				0.861 (U)	1.17	
1/10/2018			1.21			1.74
1/11/2018	7.49	2.94				
7/9/2018				0.693 (U)		
7/10/2018					1.26	1.97
7/11/2018	5.88	2.03	1.4 (U)			
8/27/2019	5.09	2.09	1.27	1.32	1.75	
8/28/2019						2.04
10/8/2019	6.39		1.62	1.41	1.52	1.89
10/9/2019		3.11				
4/7/2020	7.87	2.18		1.41	1.82	4.17
4/8/2020			1.08 (U)			
8/17/2020		2.25	1.42			
8/18/2020	6.76			0.731 (U)	1.84	4.24
9/28/2020			1.28			
9/29/2020	8.3	0.845 (U)		0.331 (U)		
9/30/2020					2.14	2.47
3/10/2021	7.55	1.77				
3/12/2021					0.607 (U)	
3/15/2021			0.769 (U)			
3/16/2021				0.0831 (U)		2.15
9/21/2021	4.35	1.24 (U)	2.09			
9/22/2021				1.94 (U)		3.06
9/23/2021					1.64	
2/1/2022						2.73
2/2/2022				0.881 (U)		
2/3/2022	4.04	0.957	1.18		0.58 (U)	
8/30/2022		3.37		2.62		
8/31/2022	6.34		1.9		2.88	
9/1/2022						1.64 (U)
2/1/2023	5.87	2.07	2.85			3.17
2/2/2023				1.31 (U)	3.14	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		1.01			5.96	3.3
9/1/2016	5.19		2.21	1.05		
10/25/2016			1.51 (U)	1.2		
10/26/2016	4.25	0.725 (U)			7.42	
10/27/2016						2.7
1/4/2017			2.56	2.11	6.07	
1/5/2017	3.55	0.735 (U)				
1/6/2017						4.45
4/4/2017		0.87 (U)	1.77	2.02		
4/5/2017	4.39					
4/6/2017					3	3.1
7/11/2017			2.76		4.2	
7/12/2017						2.73
7/13/2017	2.44	0.42 (U)		0.576 (U)		
10/2/2017			4.15			
10/3/2017		0.995 (U)		0.86		
10/4/2017	4.95				7.16	8.16
1/9/2018				1.43		
1/10/2018		0.698 (U)	1.96			
1/11/2018	3.53				3.57	2.31
7/9/2018			1.11			
7/10/2018		1.01		1.63		
7/11/2018	3.13				7.57	3.31
8/27/2019		0.787 (U)			7.04	
8/28/2019	2.01		1.13 (U)	1.4 (U)		1.91
10/8/2019				1.88		
10/9/2019	2.91	0.22 (U)	2.28		3.68	3.09
4/7/2020				1.8	7.66	
4/8/2020	2.79	1.13 (U)	4.19			1.92
8/18/2020	3.11	1.09 (U)	6.86	3.27	7.65	
8/19/2020						2.34
9/29/2020		1 (U)				
9/30/2020	3.09		5.62	3.83	2.79	
10/1/2020						3.3
3/10/2021					2.53	2.08
3/11/2021	2.77					
3/12/2021			5.17			
3/15/2021		0.804 (U)				
3/16/2021				2.88		
9/21/2021					1.25 (U)	
9/22/2021	2.36	0.769 (U)	6.84	0.959 (U)		2.08
2/1/2022	2.51		5.11	2.51		
2/2/2022		0.854 (U)				0.967 (U)
2/3/2022					1.4	
8/30/2022			4.95	2.56		
8/31/2022	2.72				3.07	
9/1/2022		2.09				2.35
2/1/2023	2.83		5.77			4.17
2/2/2023		1.11 (U)		3.73	4.13	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	1.55	1.29	0.353 (U)
9/22/2021	1.4	0.982 (U)	
9/23/2021			1.15
2/1/2022		0.36 (U)	
2/3/2022	1.21		0.278 (U)
8/31/2022	1.79		0.645 (U)
9/1/2022		3.54	
2/1/2023	2.44		
2/2/2023		2.52 (U)	2.98

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.1 (J)		0.04 (J)	0.09 (J)	0.22 (J)
9/1/2016	<0.1		<0.5			
10/24/2016		0.18 (J)				
10/25/2016	0.07 (J)					<0.1
10/26/2016			0.05 (J)	0.05 (J)	0.24 (J)	
1/3/2017		0.18 (J)		0.08 (J)		
1/4/2017						0.18 (J)
1/5/2017					0.11 (J)	
1/6/2017	0.2 (J)		0.08 (J)			
4/3/2017		0.12 (J)				
4/4/2017			<0.5			<0.1
4/6/2017	0.05 (J)			0.006 (J)	0.3	
7/11/2017		0.39				
7/12/2017			0.38	0.05 (J)	0.15 (J)	0.04 (J)
7/13/2017	0.41					
10/2/2017		0.12 (J)				
10/3/2017				0.11 (J)	0.11 (J)	<0.1
10/4/2017	0.04 (J)		<0.5			
1/9/2018	0.46	0.21 (J)			<0.1	
1/10/2018				<0.1		<0.1
1/11/2018			<0.5			
7/9/2018		0.04 (J)				
7/10/2018				0.2 (J)	<0.1	<0.1
7/11/2018	<0.1		<0.5			
1/16/2019	0.49	<0.1	1.2	<0.1	0.053 (J)	<0.1
3/25/2019	0.21 (J)	0.082 (J)	0.064 (J)			
3/26/2019				<0.1	0.046 (J)	0.051 (J)
8/26/2019	<0.1	0.13				
8/27/2019			0.031 (J)		0.13 (J)	<0.1
8/28/2019				0.097 (J)		
10/7/2019		<0.1				
10/8/2019	<0.1					
10/9/2019			<0.5	<0.1	<0.1	<0.1
4/6/2020	0.13 (J)	0.089 (J)				
4/7/2020			<0.5	<0.1	<0.1	<0.1
8/17/2020		0.079 (J)				
8/19/2020	0.21		0.17	<0.1	<0.1	<0.1
9/28/2020	0.069 (J)	<0.1				<0.1
9/30/2020				<0.1	<0.1	
10/1/2020			<0.5			
3/10/2021			<0.5	<0.1	<0.1	<0.1
3/11/2021	<0.1					
3/12/2021		0.087 (J)				
9/21/2021	0.077 (J)	0.068 (J)	<0.5	<0.1	<0.1	
9/23/2021						<0.1
1/31/2022	<0.1	0.09 (J)				
2/2/2022			<0.5		<0.1	
2/3/2022				0.081 (J)		<0.1
8/30/2022	0.0391 (J)	0.0759 (J)	<0.5	0.0428 (J)	<0.1	
9/1/2022						<0.1
1/31/2023	0.051 (J)	0.0842 (J)				
2/1/2023				0.0546 (J)	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/2/2023			<0.5			<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.5	0.7	<0.1			
9/1/2016				0.25 (J)	<0.1	0.55
10/25/2016				0.43	0.5	0.36
10/26/2016	<0.5	0.91	0.55			
1/4/2017	<0.5	0.51				0.1 (J)
1/5/2017			0.09 (J)	0.21 (J)	0.22 (J)	
4/3/2017					<0.1	
4/4/2017				0.45		
4/5/2017		0.71				0.2 (J)
4/6/2017	<0.5		<0.1			
7/10/2017		0.88				
7/11/2017	<0.5			0.41	0.06 (J)	
7/12/2017			<0.1			0.04 (J)
10/2/2017				<0.1	<0.1	
10/3/2017	<0.5					0.86
10/4/2017		0.37	<0.1			
1/9/2018				<0.1	<0.1	
1/10/2018			<0.1			<0.1
1/11/2018	<0.5	1.4				
7/9/2018				<0.1		
7/10/2018					0.15 (J)	<0.1
7/11/2018	<0.5	0.62	<0.1			
1/16/2019			<0.1	<0.1		
1/17/2019	<0.5	1.2			<0.1	<0.1
3/26/2019			0.052 (J)	0.13 (J)	0.13 (J)	0.11 (J)
3/27/2019	<0.5	0.036 (J)				
8/27/2019	<0.5	0.3	<0.1	<0.1	<0.1	
8/28/2019						<0.1
10/8/2019	<0.5		<0.1	<0.1	<0.1	<0.1
10/9/2019		<0.3				
4/7/2020	<0.5	0.27 (J)		<0.1	<0.1	<0.1
4/8/2020			<0.1			
8/17/2020		0.19	<0.1			
8/18/2020	<0.5			<0.1	<0.1	<0.1
9/28/2020			<0.1			
9/29/2020	<0.5	0.16		<0.1		
9/30/2020					<0.1	<0.1
3/10/2021	<0.5	0.14				
3/12/2021					<0.1	
3/15/2021			<0.1			
3/16/2021				<0.1		<0.1
9/21/2021	<0.5	0.31	<0.1			
9/22/2021				<0.1		<0.1
9/23/2021					<0.1	
2/1/2022						<0.1
2/2/2022				<0.1		
2/3/2022	<0.5	0.36	<0.1		<0.1	
8/30/2022		0.273		<0.1		
8/31/2022	<0.5		0.051 (J)		<0.1	
9/1/2022						0.0374 (J)
2/1/2023	<0.5	0.231	0.0423 (J)			0.0702 (J)
2/2/2023				<0.1	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.07 (J)			0.04 (J)	0.55
9/1/2016	0.68		<0.1	<0.1		
10/25/2016			<0.1	<0.1		
10/26/2016	0.68	0.62			0.12 (J)	
10/27/2016						0.26 (J)
1/4/2017			0.04 (J)	<0.1	0.06 (J)	
1/5/2017	0.73	0.17 (J)				
1/6/2017						0.25 (J)
4/4/2017		0.08 (J)	0.02 (J)	<0.1		
4/5/2017	1.6					
4/6/2017					<0.1	0.16 (J)
7/11/2017			0.14 (J)		0.03 (J)	
7/12/2017						0.2 (J)
7/13/2017	1.7	0.06 (J)		<0.1		
10/2/2017			<0.1			
10/3/2017		0.06 (J)		<0.1		
10/4/2017	1.8				0.12 (J)	0.22 (J)
1/9/2018				<0.1		
1/10/2018		<0.1	<0.1			
1/11/2018	1.5				<0.1	0.98
7/9/2018			<0.1			
7/10/2018		<0.1		<0.1		
7/11/2018	1.8				<0.1	0.14 (J)
1/16/2019	1.4					
1/17/2019				<0.1		
1/18/2019					<0.1	0.24 (J)
1/21/2019		<0.1	<0.1			
3/25/2019			0.043 (J)			
3/26/2019	0.89			0.071 (J)		
3/27/2019					<0.1	0.13 (J)
7/30/2019		0.083 (J)				
8/27/2019		<0.1			0.1	
8/28/2019	0.61		<0.1	<0.1		0.088 (J)
10/8/2019				<0.1		
10/9/2019	<0.3	<0.1	<0.1		<0.1	0.068 (J)
4/7/2020				<0.1	<0.1	
4/8/2020	0.55	<0.1	<0.1			0.058 (J)
8/18/2020	0.51	<0.1	<0.1	<0.1	<0.1	
8/19/2020						0.092 (J)
9/29/2020		<0.1				
9/30/2020	0.15		<0.1	<0.1	<0.1	
10/1/2020						<0.1
3/10/2021					<0.1	0.066 (J)
3/11/2021	0.42					
3/12/2021			<0.1			
3/15/2021		<0.1				
3/16/2021				<0.1		
9/21/2021					<0.1	
9/22/2021	0.79	<0.1	<0.1	<0.1		0.13
2/1/2022	0.68		<0.1	<0.1		
2/2/2022		<0.1				<0.1
2/3/2022					<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.1	<0.1		
8/31/2022	0.442				<0.1	
9/1/2022		<0.1				0.0783 (J)
2/1/2023	0.604		<0.1			0.0994 (J)
2/2/2023		<0.1		<0.1	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.11
1/21/2021	<0.1	<0.1	
3/11/2021	<0.1	<0.1	0.12
9/22/2021	<0.1	<0.1	
9/23/2021			0.096 (J)
2/1/2022		<0.1	
2/3/2022	<0.1		0.077 (J)
8/31/2022	0.0791 (J)		0.187
9/1/2022		<0.1	
2/1/2023	0.0586 (J)		
2/2/2023		<0.1	0.152

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.002	0.0083	0.017 (O)	<0.002	<0.002
11/21/2000	<0.005		0.0052	<0.002	<0.002	<0.002
1/20/2001	<0.005	<0.002	<0.002	0.011	<0.002	<0.002
3/14/2001	<0.005	<0.002	<0.002	0.026 (O)	<0.002	<0.002
7/16/2001	<0.005	<0.002	0.011	0.043 (O)	<0.002	<0.002
11/1/2001	<0.005	<0.002	<0.002	0.075 (O)	<0.002	<0.002
4/25/2002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002		<0.002	0.018 (O)	0.057 (O)	0.0057 (J)	<0.002
6/6/2003	0.037 (O)	0.016 (O)	0.015 (O)	0.16 (O)	0.013	<0.002
12/12/2003	0.008	0.0095	0.0072	<0.002	<0.002	<0.002
5/26/2004	<0.005	<0.002	0.0055	0.011	<0.002	<0.002
12/7/2004	<0.005	<0.002	<0.002	0.038 (O)	<0.002	<0.002
6/21/2005	<0.005	<0.002	<0.002	0.036 (O)	<0.002	<0.002
12/12/2005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.005	<0.002	0.024 (O)	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.005	<0.002	0.023 (O)	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007		<0.002				
12/11/2007	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008		<0.002				
6/23/2008	<0.005	<0.002				
6/24/2008			0.02 (O)	<0.002	0.02	<0.002
11/3/2008		<0.002				
12/4/2008	<0.005	<0.002				
12/5/2008			<0.002	<0.002	<0.002	<0.002
3/25/2009		<0.002				
7/7/2009	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009		<0.002				
12/20/2009	<0.005	<0.002				<0.002
12/21/2009			<0.002	<0.002	<0.002	
3/4/2010		<0.002				
6/20/2010	<0.005	<0.002		<0.002	<0.002	<0.002
6/21/2010			<0.002			
9/14/2010		<0.002				
1/6/2011				<0.002		<0.002
1/7/2011	<0.005	<0.002	<0.002		<0.002	
4/15/2011		<0.002				
7/7/2011	<0.005	<0.002		<0.002	<0.002	<0.002
7/8/2011			<0.002			
9/25/2011		<0.002				
1/17/2012	<0.005	<0.002		<0.002		<0.002
1/18/2012			<0.002		<0.002	
4/4/2012		<0.002				
7/9/2012	<0.005			<0.002		<0.002
7/10/2012		<0.002	<0.002		<0.002	
10/9/2012		<0.002				
1/17/2013				<0.002		<0.002
1/18/2013	<0.005	<0.002	<0.002		<0.002	
4/5/2013		<0.002				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.002		<0.002
7/17/2013	<0.005	<0.002	<0.002		<0.002	
10/11/2013		<0.002				
1/13/2014	0.013			<0.002		<0.002
1/14/2014		<0.002	0.005		<0.002	
4/3/2014		<0.002				
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/24/2014		<0.002				
1/12/2015			<0.002			
1/13/2015	0.0057 (J)			<0.002		<0.002
1/14/2015		<0.002			<0.002	
5/10/2015		<0.002				
7/16/2015	0.009 (J)		<0.002	<0.002		<0.002
7/17/2015		<0.002			<0.002	
10/6/2015		<0.002				
1/17/2016						<0.002
1/18/2016	0.0094 (J)	<0.002	0.0055 (J)	<0.002	<0.002	
4/26/2016		<0.002				
7/27/2016	0.0058			<0.002		<0.002
7/28/2016		<0.002			<0.002	
7/29/2016			0.003 (J)			
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0663 (O)		0.0166 (O)			
10/24/2016		<0.002				
10/25/2016	0.0003 (J)					<0.002
10/26/2016			0.0057	0.0002 (J)	<0.002	
1/3/2017		0.0001 (J)		0.0001 (J)		
1/4/2017						<0.002
1/5/2017					0.0003 (J)	
1/6/2017	0.006		0.0053			
4/3/2017		0.0002 (J)				
4/4/2017			0.0092			<0.002
4/6/2017	0.0109			0.0003 (J)	0.0002 (J)	
7/11/2017		0.0001 (J)				
7/12/2017			0.006	0.0002 (J)	0.0002 (J)	<0.002
7/13/2017	0.007					
10/2/2017		0.0001 (J)				
10/3/2017				0.0002 (J)	0.0001 (J)	<0.002
10/4/2017	0.0042 (J)		0.0057			
1/9/2018	0.0098	0.0001 (J)			0.0003 (J)	
1/10/2018				0.0003 (J)		0.0001 (J)
1/11/2018			0.0085			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	0.0028 (J)		0.0029 (J)			
1/16/2019	<0.025 (O)	<0.002	<0.002	<0.002	<0.002	<0.002
3/25/2019	0.0019 (J)	<0.002	<0.002			
3/26/2019				<0.002	<0.002	<0.002
8/26/2019	0.013 (J)	<0.002				
8/27/2019			0.001 (J)		0.0011 (J)	<0.002
8/28/2019				0.0011 (J)		
10/7/2019		<0.002				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0098 (J)					
10/9/2019			0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002
4/6/2020	0.0024 (J)	0.0001 (J)				
4/7/2020			0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)
8/17/2020		<0.002				
8/19/2020	0.0044 (J)		0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002
9/28/2020	0.0043 (J)	<0.002				4.3E-05 (J)
9/30/2020				0.0012 (J)	8E-05 (J)	
10/1/2020			0.00026 (J)			
3/10/2021			0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)
3/11/2021	0.0079					
3/12/2021		9.3E-05 (J)				
9/21/2021	<0.005	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.005	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	0.0022	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002
1/31/2023	0.00126 (J)	0.0104				
2/1/2023				<0.002	<0.002	
2/2/2023			<0.002			<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002	<0.002	<0.002	<0.002	0.011 (O)	<0.002	<0.002
6/6/2003	0.0068	<0.002	0.0078	<0.002	<0.002	0.099 (O)
12/12/2003	<0.002	<0.002	0.0055	<0.002	0.0065	0.017 (O)
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007				<0.002		<0.002
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008				<0.002		<0.002
6/23/2008	<0.002	<0.002	<0.002			
6/24/2008				<0.002	<0.002	<0.002
11/3/2008				<0.002		<0.002
12/4/2008	<0.002	<0.002	<0.002	<0.002		
12/5/2008					<0.002	<0.002
3/25/2009				<0.002		<0.002
7/8/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009				<0.002		<0.002
12/20/2009				<0.002	<0.002	<0.002
12/21/2009	<0.002	<0.002	<0.002			
3/4/2010				<0.002		<0.002
6/20/2010	<0.002	<0.002	<0.002	<0.002	<0.002	
6/21/2010						<0.002
9/14/2010				<0.002		<0.002
1/6/2011	<0.002		<0.002			
1/7/2011		<0.002		<0.002	<0.002	<0.002
4/15/2011				<0.002		<0.002
7/7/2011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/25/2011				<0.002		<0.002
1/17/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
1/18/2012						<0.002
4/4/2012				<0.002		<0.002
7/9/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
7/10/2012						<0.002
10/9/2012				<0.002		<0.002
1/17/2013	<0.002	<0.002	<0.002			
1/18/2013				<0.002	<0.002	<0.002
4/5/2013				<0.002		<0.002
7/16/2013	<0.002	<0.002	<0.002			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.002	<0.002	<0.002
10/11/2013				<0.002		<0.002
1/13/2014	<0.002	0.004	<0.002		<0.002	
1/14/2014				<0.002		<0.002
4/3/2014				<0.002		<0.002
7/8/2014	<0.002	<0.002	<0.002			
7/9/2014				<0.002	<0.002	<0.002
10/24/2014				<0.002		<0.002
1/13/2015	<0.002	<0.002	<0.002		<0.002	
1/14/2015				<0.002		<0.002
5/10/2015				<0.002		
5/11/2015						<0.002
7/16/2015	<0.002	0.0044 (J)	<0.002		<0.002	<0.002
7/17/2015				<0.002		
1/17/2016				<0.002	<0.002	<0.002
1/18/2016		0.0034 (J)	<0.002			
1/19/2016	<0.002					
4/26/2016				<0.002		<0.002
7/26/2016	0.0001 (J)		<0.002			
7/27/2016		0.0001 (J)		<0.002	<0.002	
7/28/2016						<0.002
8/31/2016	0.0002 (J)	0.0001 (J)	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	0.0002 (J)
10/26/2016	0.0001 (J)	0.0001 (J)	<0.002			
1/4/2017	0.0002 (J)	<0.002				0.0001 (J)
1/5/2017			0.0002 (J)	<0.002	<0.002	
4/3/2017					0.0003 (J)	
4/4/2017				0.0001 (J)		
4/5/2017		0.0003 (J)				0.0002 (J)
4/6/2017	0.0003 (J)		0.0005 (J)			
7/10/2017		0.0003 (J)				
7/11/2017	0.0002 (J)			8E-05 (J)	0.0001 (J)	
7/12/2017			0.0005 (J)			0.0001 (J)
10/2/2017				0.0001 (J)	0.0002 (J)	
10/3/2017	0.0003 (J)					0.0001 (J)
10/4/2017		0.0001 (J)	0.0007 (J)			
1/9/2018				<0.002	0.0002 (J)	
1/10/2018			0.0009 (J)			0.0002 (J)
1/11/2018	0.0003 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	0.0015 (J)			
1/16/2019			0.00061 (J)	<0.002		
1/17/2019	0.00028 (J)	<0.002			<0.002	<0.002
3/26/2019			<0.002	<0.002	<0.002	<0.002
3/27/2019	0.00029 (J)	<0.002				
8/27/2019	0.00021 (J)	<0.002	0.0001 (J)	0.00051 (J)	0.00033 (J)	
8/28/2019						0.0001 (J)
10/8/2019	0.00028 (J)		0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)
10/9/2019		6.6E-05 (J)				
4/7/2020	0.00036 (J)	8.1E-05 (J)		<0.002	8.6E-05 (J)	0.00023 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.00017 (J)			
8/17/2020		4.9E-05 (J)	7.6E-05 (J)			
8/18/2020	0.00035 (J)			<0.002	9E-05 (J)	0.00017 (J)
9/28/2020			6.4E-05 (J)			
9/29/2020	0.00032 (J)	3.7E-05 (J)		<0.002		
9/30/2020					4.7E-05 (J)	9.1E-05 (J)
3/10/2021	0.00042 (J)	6.8E-05 (J)				
3/12/2021					5.3E-05 (J)	
3/15/2021			0.00013 (J)			
3/16/2021				<0.002		7.3E-05 (J)
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002
2/1/2023	<0.002	<0.002	<0.002			<0.002
2/2/2023				<0.002	<0.002	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	0.0069				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
11/20/2002	<0.002	<0.002				0.0086 (O)
6/6/2003	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				0.0051
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
12/11/2007	<0.002	<0.002				<0.002
6/23/2008						<0.002
6/24/2008	<0.002	<0.002				
12/4/2008		<0.002				<0.002
12/5/2008	<0.002					
7/8/2009	<0.002	<0.002				<0.002
12/20/2009		<0.002				
12/21/2009	<0.002					<0.002
6/20/2010		<0.002				<0.002
6/21/2010	<0.002		<0.002	<0.002	<0.002	
1/6/2011		<0.002				
1/7/2011	<0.002		<0.002	<0.002	<0.002	<0.002
7/7/2011			<0.002			
7/8/2011	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2012		<0.002				
1/18/2012	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2012		<0.002				
7/10/2012	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2013		<0.002				
1/18/2013	<0.002		<0.002	<0.002	<0.002	<0.002
7/17/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/13/2014		<0.002				
1/14/2014	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2014	<0.002	<0.002		<0.002		<0.002
7/10/2014			<0.002		<0.002	
1/12/2015			<0.002			
1/13/2015		<0.002				
1/14/2015	<0.002			<0.002	<0.002	<0.002
7/16/2015		<0.002				
7/17/2015				<0.002		<0.002
7/18/2015	<0.002		<0.002		<0.002	
1/17/2016		<0.002	<0.002	<0.002		
1/18/2016	<0.002				<0.002	<0.002
7/27/2016		<0.002				
7/28/2016			<0.002	<0.002		<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.002				0.0004 (J)	
8/31/2016		<0.002			0.0003 (J)	0.0007 (J)
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			0.0001 (J)	<0.002		
10/26/2016	<0.002	<0.002			0.0003 (J)	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	0.0003 (J)	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		0.0002 (J)	7E-05 (J)	9E-05 (J)		
4/5/2017	0.0009 (J)					
4/6/2017					0.0003 (J)	0.0001 (J)
7/11/2017			<0.002		0.0002 (J)	
7/12/2017						<0.002
7/13/2017	<0.002	0.0003 (J)		7E-05 (J)		
10/2/2017			<0.002			
10/3/2017		<0.002		0.0001 (J)		
10/4/2017	0.0001 (J)				0.0008 (J)	9E-05 (J)
1/9/2018				9E-05 (J)		
1/10/2018		8E-05 (J)	0.0002 (J)			
1/11/2018	0.0001 (J)				0.0009 (J)	0.0002 (J)
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				0.001 (J)	<0.002
1/16/2019	<0.002					
1/17/2019				<0.002		
1/18/2019					0.0012 (J)	<0.002
1/21/2019		<0.002	<0.002			
3/25/2019			<0.002			
3/26/2019	<0.002			<0.002		
3/27/2019					0.00047 (J)	<0.002
7/30/2019		0.0002 (J)				
8/27/2019		<0.002			0.003 (J)	
8/28/2019	<0.002		6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)
10/8/2019				0.00016 (J)		
10/9/2019	0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)	<0.002
4/7/2020				<0.002	0.00067 (J)	
4/8/2020	8.4E-05 (J)	<0.002	<0.002			0.00021 (J)
8/18/2020	0.00014 (J)	<0.002	<0.002	0.00027 (J)	0.00072 (J)	
8/19/2020						9.6E-05 (J)
9/29/2020		<0.002				
9/30/2020	6E-05 (J)		<0.002	5.4E-05 (J)	0.00023 (J)	
10/1/2020						3.8E-05 (J)
3/10/2021					0.00016 (J)	0.00012 (J)
3/11/2021	0.00019 (J)					
3/12/2021			<0.002			
3/15/2021		4.1E-05 (J)				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002
2/1/2023	<0.002		<0.002			<0.002
2/2/2023		<0.002		<0.002	<0.002	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	5.7E-05 (J)	9.4E-05 (J)	9.5E-05 (J)
9/22/2021	<0.002	<0.002	
9/23/2021			<0.002
2/1/2022		<0.002	
2/3/2022	<0.002		<0.002
8/31/2022	<0.002		<0.002
9/1/2022		<0.002	
2/1/2023	<0.002		
2/2/2023		<0.002	<0.002

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.01		0.0042 (J)	<0.01	<0.01
9/1/2016	<0.01		0.0092 (J)			
10/24/2016		<0.01				
10/25/2016	<0.01					<0.01
10/26/2016			0.0046 (J)	<0.01	<0.01	
1/3/2017		<0.01		0.0024 (J)		
1/4/2017						<0.01
1/5/2017					<0.01	
1/6/2017	<0.01		0.0042 (J)			
4/3/2017		<0.01				
4/4/2017			0.0056 (J)			<0.01
4/6/2017	<0.01			0.0051 (J)	<0.01	
7/11/2017		<0.01				
7/12/2017			0.0035 (J)	0.0031 (J)	<0.01	<0.01
7/13/2017	<0.01					
10/2/2017		<0.01				
10/3/2017				0.0027 (J)	<0.01	<0.01
10/4/2017	<0.01		0.0041 (J)			
1/9/2018	<0.01	<0.01			<0.01	
1/10/2018				0.0041 (J)		<0.01
1/11/2018			0.0052 (J)			
7/9/2018		0.001 (J)				
7/10/2018				0.005 (J)	<0.01	<0.01
7/11/2018	<0.01		0.0039 (J)			
8/26/2019	<0.01	0.0012 (J)				
8/27/2019			0.013 (J)		<0.01	<0.01
8/28/2019				<0.01		
10/7/2019		0.0012 (J)				
10/8/2019	<0.01					
10/9/2019			0.013 (J)	<0.01	<0.01	<0.01
4/6/2020	<0.01	0.00086 (J)				
4/7/2020			0.014 (J)	<0.01	<0.01	<0.01
8/17/2020		0.001 (J)				
8/19/2020	<0.01		0.014 (J)	<0.01	<0.01	<0.01
9/28/2020	<0.01	0.001 (J)				<0.01
9/30/2020				<0.01	<0.01	
10/1/2020			0.013 (J)			
3/10/2021			0.012 (J)	<0.01	<0.01	<0.01
3/11/2021	<0.01					
3/12/2021		0.0013 (J)				
9/21/2021	<0.01	0.00092 (J)	0.016 (J)	<0.01	<0.01	
9/23/2021						<0.01
1/31/2022	<0.01	0.00091 (J)				
2/2/2022			0.015 (J)		<0.01	
2/3/2022				<0.01		<0.01
8/30/2022	<0.01	<0.01	0.0175	<0.01	<0.01	
9/1/2022						<0.01
1/31/2023	<0.01	<0.01		<0.01	<0.01	
2/1/2023				<0.01	<0.01	
2/2/2023			0.0184			<0.01

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.01	<0.01	<0.01			
9/1/2016				<0.01	<0.01	<0.01
10/25/2016				<0.01	<0.01	<0.01
10/26/2016	<0.01	<0.01	<0.01			
1/4/2017	<0.01	<0.01				<0.01
1/5/2017			<0.01	<0.01	<0.01	
4/3/2017					<0.01	
4/4/2017				<0.01		
4/5/2017		0.0012 (J)				<0.01
4/6/2017	<0.01		<0.01			
7/10/2017		<0.01				
7/11/2017	<0.01			<0.01	<0.01	
7/12/2017			<0.01			<0.01
10/2/2017				<0.01	<0.01	
10/3/2017	<0.01					<0.01
10/4/2017		<0.01	<0.01			
1/9/2018				<0.01	<0.01	
1/10/2018			<0.01			<0.01
1/11/2018	<0.01	<0.01				
7/9/2018				<0.01		
7/10/2018					<0.01	<0.01
7/11/2018	<0.01	0.00098 (J)	<0.01			
8/27/2019	<0.01	0.00094 (J)	<0.01	<0.01	<0.01	
8/28/2019						<0.01
10/8/2019	<0.01		<0.01	<0.01	<0.01	<0.01
10/9/2019		0.0011 (J)				
4/7/2020	<0.01	0.00094 (J)		<0.01	<0.01	<0.01
4/8/2020			<0.01			
8/17/2020		0.00091 (J)	<0.01			
8/18/2020	<0.01			<0.01	<0.01	<0.01
9/28/2020			<0.01			
9/29/2020	<0.01	0.00086 (J)		<0.01		
9/30/2020					<0.01	<0.01
3/10/2021	<0.01	0.00095 (J)				
3/12/2021					<0.01	
3/15/2021			<0.01			
3/16/2021				<0.01		<0.01
9/21/2021	<0.01	0.00091 (J)	0.00087 (J)			
9/22/2021				<0.01		<0.01
9/23/2021					<0.01	
2/1/2022						<0.01
2/2/2022				<0.01		
2/3/2022	<0.01	0.001 (J)	0.00077 (J)		<0.01	
8/30/2022		<0.01		<0.01		
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022						<0.01
2/1/2023	<0.01	<0.01	<0.01			<0.01
2/2/2023				<0.01	<0.01	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.01			<0.01	<0.05 (O)
9/1/2016	0.0066 (J)		<0.01	<0.01		
10/25/2016			<0.01	<0.01		
10/26/2016	0.0065 (J)	<0.01			<0.01	
10/27/2016						0.0023 (J)
1/4/2017			<0.01	<0.01	<0.01	
1/5/2017	0.0062 (J)	<0.01				
1/6/2017						0.0021 (J)
4/4/2017		<0.01	<0.01	<0.01		
4/5/2017	0.007 (J)					
4/6/2017					<0.01	0.0021 (J)
7/11/2017			<0.01		<0.01	
7/12/2017						0.0017 (J)
7/13/2017	0.0069 (J)	<0.01		<0.01		
10/2/2017			<0.01			
10/3/2017		<0.01		<0.01		
10/4/2017	0.0082 (J)				<0.01	0.0021 (J)
1/9/2018				<0.01		
1/10/2018		<0.01	<0.01			
1/11/2018	0.0061 (J)				<0.01	0.0022 (J)
7/9/2018			<0.01			
7/10/2018		<0.01		<0.01		
7/11/2018	0.0075 (J)				<0.01	0.0019 (J)
7/30/2019		<0.01				
8/27/2019		<0.01			<0.01	
8/28/2019	0.0041 (J)		<0.01	<0.01		0.0018 (J)
10/8/2019				<0.01		
10/9/2019	0.0046 (J)	<0.01	<0.01		<0.01	0.0018 (J)
4/7/2020				<0.01	<0.01	
4/8/2020	0.0051 (J)	<0.01	<0.01			0.0018 (J)
8/18/2020	0.0065 (J)	<0.01	<0.01	<0.01	<0.01	
8/19/2020						0.0019 (J)
9/29/2020		<0.01				
9/30/2020	0.0041 (J)		<0.01	<0.01	<0.01	
10/1/2020						0.0019 (J)
3/10/2021					<0.01	0.0018 (J)
3/11/2021	0.0036 (J)					
3/12/2021			<0.01			
3/15/2021		<0.01				
3/16/2021				<0.01		
9/21/2021					<0.01	
9/22/2021	0.005 (J)	<0.01	<0.01	<0.01		0.0015 (J)
2/1/2022	0.0061 (J)		<0.01	<0.01		
2/2/2022		<0.01				0.0017 (J)
2/3/2022					<0.01	
8/30/2022			<0.01	<0.01		
8/31/2022	0.00688 (J)				<0.01	
9/1/2022		<0.01				<0.01
2/1/2023	0.00532 (J)		<0.01			<0.01
2/2/2023		<0.01		<0.01	<0.01	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.01	<0.01	<0.01
9/22/2021	<0.01	<0.01	
9/23/2021			<0.01
2/1/2022		<0.01	
2/3/2022	<0.01		<0.01
8/31/2022	<0.01		<0.01
9/1/2022		<0.01	
2/1/2023	<0.01		
2/2/2023		<0.01	<0.01

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.0002		<0.0002	<0.0002	4E-05 (J)
9/1/2016	0.00017 (J)		<0.0002			
10/24/2016		<0.0002				
10/25/2016	<0.0002					<0.0002
10/26/2016			<0.0002	<0.0002	<0.0002	
1/3/2017		<0.0002		<0.0002		
1/4/2017						<0.0002
1/5/2017					<0.0002	
1/6/2017	<0.0002		<0.0002			
4/3/2017		<0.0002				
4/4/2017			<0.0002			<0.0002
4/6/2017	4E-05 (J)			<0.0002	<0.0002	
7/11/2017		<0.0002				
7/12/2017			<0.0002	<0.0002	<0.0002	<0.0002
7/13/2017	<0.0002					
10/2/2017		<0.0002				
10/3/2017				<0.0002	<0.0002	<0.0002
10/4/2017	0.0001 (J)		<0.0002			
1/9/2018	<0.0002	<0.0002			<0.0002	
1/10/2018				<0.0002		<0.0002
1/11/2018			<0.0002			
7/9/2018		<0.0002				
7/10/2018				<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002		<0.0002			
1/16/2019	<0.0002	<0.0002	4.9E-05 (J)	<0.0002	4.3E-05 (J)	<0.0002
8/26/2019	<0.0002	<0.0002				
8/27/2019			<0.0002		<0.0002	<0.0002
8/28/2019				<0.0002		
10/9/2019				<0.0002		
8/17/2020		<0.0002				
8/19/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.00011 (J)	0.0001 (J)	0.0001 (J)	0.0001 (J)	
9/23/2021						0.0001 (J)
1/31/2022	<0.0002	<0.0002				
2/2/2022			<0.0002		<0.0002	
2/3/2022				<0.0002		<0.0002
8/30/2022	<0.0002	<0.0002	<0.0002	8.7E-05 (J)	<0.0002	
9/1/2022						<0.0002
1/31/2023	<0.0002	<0.0002				
2/1/2023				<0.0002	<0.0002	
2/2/2023			<0.0002			<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
10/25/2016				<0.0002	<0.0002	<0.0002
10/26/2016	<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002	<0.0002				<0.0002
1/5/2017			<0.0002	<0.0002	<0.0002	
4/3/2017					<0.0002	
4/4/2017				<0.0002		
4/5/2017		<0.0002				<0.0002
4/6/2017	<0.0002		0.00013 (J)			
7/10/2017		<0.0002				
7/11/2017	<0.0002			<0.0002	<0.0002	
7/12/2017			<0.0002			<0.0002
10/2/2017				<0.0002	<0.0002	
10/3/2017	<0.0002					<0.0002
10/4/2017		<0.0002	<0.0002			
1/9/2018				<0.0002	<0.0002	
1/10/2018			<0.0002			<0.0002
1/11/2018	<0.0002	<0.0002				
7/9/2018				<0.0002		
7/10/2018					<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002			
1/16/2019			<0.0002	<0.0002		
1/17/2019	<0.0002	<0.0002			<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/28/2019						<0.0002
8/17/2020		<0.0002	<0.0002			
8/18/2020	<0.0002			<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.0001 (J)	0.0001 (J)			
9/22/2021				0.00011 (J)		0.0001 (J)
9/23/2021					0.0001 (J)	
2/1/2022						<0.0002
2/2/2022				<0.0002		
2/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	
8/30/2022		<0.0002		<0.0002		
8/31/2022	<0.0002		<0.0002		<0.0002	
9/1/2022						<0.0002
2/1/2023	<0.0002	<0.0002	<0.0002			<0.0002
2/2/2023				<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.0002			<0.0002	<0.0002
9/1/2016	<0.0002		<0.0002	<0.0002		
10/25/2016			<0.0002	<0.0002		
10/26/2016	<0.0002	<0.0002			<0.0002	
10/27/2016						<0.0002
1/4/2017			<0.0002	<0.0002	<0.0002	
1/5/2017	<0.0002	<0.0002				
1/6/2017						<0.0002
4/4/2017		<0.0002	<0.0002	<0.0002		
4/5/2017	<0.0002					
4/6/2017					<0.0002	<0.0002
7/11/2017			<0.0002		<0.0002	
7/12/2017						<0.0002
7/13/2017	<0.0002	<0.0002		<0.0002		
10/2/2017			<0.0002			
10/3/2017		<0.0002		<0.0002		
10/4/2017	<0.0002				<0.0002	5E-05 (J)
1/9/2018				<0.0002		
1/10/2018		<0.0002	<0.0002			
1/11/2018	<0.0002				<0.0002	<0.0002
7/9/2018			<0.0002			
7/10/2018		<0.0002		<0.0002		
7/11/2018	<0.0002				<0.0002	<0.0002
1/16/2019	<0.0002					
1/17/2019				<0.0002		
1/18/2019					<0.0002	<0.0002
1/21/2019		<0.0002	<0.0002			
7/30/2019		<0.0002				
8/27/2019		<0.0002			<0.0002	
8/28/2019	<0.0002		<0.0002	<0.0002		<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/19/2020						<0.0002
9/21/2021					0.0001 (J)	
9/22/2021	0.00011 (J)	0.0001 (J)	0.00011 (J)	0.00011 (J)		0.00011 (J)
2/1/2022	<0.0002		<0.0002	<0.0002		
2/2/2022		<0.0002				<0.0002
2/3/2022					<0.0002	
8/30/2022			<0.0002	<0.0002		
8/31/2022	<0.0002				<0.0002	
9/1/2022		<0.0002				<0.0002
2/1/2023	<0.0002		<0.0002			<0.0002
2/2/2023		<0.0002		<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
9/22/2021	0.00011 (J)	0.0001 (J)	
9/23/2021			0.0001 (J)
2/1/2022		<0.0002	
2/3/2022	<0.0002		<0.0002
8/31/2022	<0.0002		<0.0002
9/1/2022		<0.0002	
2/1/2023	<0.0002		
2/2/2023		<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.001		<0.001	<0.01	0.175
9/1/2016	0.0098 (J)		0.035			
10/24/2016		<0.001				
10/25/2016	<0.05					0.242
10/26/2016			0.0267	<0.001	<0.01	
1/3/2017		<0.001		<0.001		
1/4/2017						0.167
1/5/2017					<0.01	
1/6/2017	<0.05		0.0278			
4/3/2017		<0.001				
4/4/2017			0.0265			0.172
4/6/2017	<0.05			<0.001	<0.01	
7/11/2017		<0.001				
7/12/2017			0.0209	<0.001	<0.01	0.182
7/13/2017	0.0013 (J)					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.01	0.162
10/4/2017	0.0013 (J)		0.0181			
1/9/2018	<0.05	<0.001			<0.01	
1/10/2018				<0.001		0.117
1/11/2018			0.0237			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.01	0.11
7/11/2018	<0.05		0.024			
8/26/2019	<0.05	<0.001				
8/27/2019			0.1		0.0026 (J)	0.06
8/28/2019				0.0012 (J)		
10/7/2019		<0.001				
10/8/2019	<0.05					
10/9/2019			0.1	<0.001	<0.01	0.06
4/6/2020	<0.05	<0.001				
4/7/2020			0.13	<0.001	<0.01	0.014
8/17/2020		<0.001				
8/19/2020	<0.05		0.16	<0.001	0.001 (J)	0.061
9/28/2020	<0.05	<0.001				0.059
9/30/2020				<0.001	0.00097 (J)	
10/1/2020			0.15			
3/10/2021			0.12	<0.001	0.0013 (J)	0.057
3/11/2021	<0.05					
3/12/2021		<0.001				
9/21/2021	<0.05	<0.001	0.12	<0.001	<0.01	
9/23/2021						0.06
1/31/2022	<0.05	<0.001				
2/2/2022			0.11		0.00085 (J)	
2/3/2022				<0.001		0.038
8/30/2022	0.000453 (J)	<0.001	0.154	<0.001	0.000649 (J)	
9/1/2022						0.0343
1/31/2023	0.000364 (J)	<0.001				
2/1/2023				0.00069 (J)	0.000553 (J)	
2/2/2023			0.199			0.0433

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.01	<0.001	<0.001			
9/1/2016				0.0027 (J)	0.132	0.08
10/25/2016				0.0028 (J)	0.117	0.08
10/26/2016	<0.01	<0.001	<0.001			
1/4/2017	<0.01	<0.001				0.0786
1/5/2017			<0.001	0.0022 (J)	0.109	
4/3/2017					0.0994	
4/4/2017				0.0022 (J)		
4/5/2017		<0.001				0.113
4/6/2017	<0.01		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.01			0.0024 (J)	0.0938	
7/12/2017			<0.001			0.178
10/2/2017				0.0025 (J)	0.103	
10/3/2017	<0.01					0.201
10/4/2017		<0.001	<0.001			
1/9/2018				0.0038 (J)	0.106	
1/10/2018			<0.001			0.161
1/11/2018	0.0018 (J)	<0.001				
7/9/2018				0.01		
7/10/2018					0.088	0.14
7/11/2018	<0.01	<0.001	<0.001			
8/27/2019	<0.01	<0.001	<0.001	0.028	0.095	
8/28/2019						0.22
10/8/2019	<0.01		<0.001	0.034	0.091	0.2
10/9/2019		<0.001				
4/7/2020	<0.01	<0.001		0.014	0.07	0.25
4/8/2020			0.0056 (J)			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00077 (J)			0.017	0.12	0.15
9/28/2020			<0.001			
9/29/2020	<0.01	<0.001		0.0089 (J)		
9/30/2020					0.11	0.15
3/10/2021	<0.01	<0.001				
3/12/2021					0.098	
3/15/2021			<0.001			
3/16/2021				0.0054 (J)		0.31
9/21/2021	<0.01	<0.001	<0.001			
9/22/2021				0.018		0.22
9/23/2021					0.094	
2/1/2022						0.18
2/2/2022				0.015		
2/3/2022	<0.01	<0.001	<0.001		0.086	
8/30/2022		0.000205 (J)		0.0133		
8/31/2022	0.000512 (J)		<0.001		0.0786	
9/1/2022						0.154
2/1/2023	0.000613 (J)	<0.001	<0.001			0.136
2/2/2023				0.0167	0.0748	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.001			<0.001	<0.001
9/1/2016	<0.01		0.296	0.0686		
10/25/2016			0.395	0.0018 (J)		
10/26/2016	<0.01	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			0.229	0.0222	<0.001	
1/5/2017	<0.01	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	0.147	0.0476		
4/5/2017	<0.01					
4/6/2017					<0.001	<0.001
7/11/2017			0.136		<0.001	
7/12/2017						<0.001
7/13/2017	<0.01	<0.001		0.0105		
10/2/2017			0.13			
10/3/2017		<0.001		0.0031 (J)		
10/4/2017	<0.01				<0.001	<0.001
1/9/2018				0.09		
1/10/2018		<0.001	0.229			
1/11/2018	<0.01				<0.001	<0.001
7/9/2018			0.13			
7/10/2018		<0.001		0.047		
7/11/2018	<0.01				<0.001	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	0.004 (J)		0.11	0.07		<0.001
10/8/2019				0.078		
10/9/2019	0.0036 (J)	<0.001	0.071		<0.001	<0.001
4/7/2020				0.012	<0.001	
4/8/2020	0.0024 (J)	<0.001	0.06			<0.001
8/18/2020	0.00092 (J)	<0.001	0.097	0.069	<0.001	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	0.0041 (J)		0.33	0.028	<0.001	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	0.0038 (J)					
3/12/2021			0.53			
3/15/2021		<0.001				
3/16/2021				0.024		
9/21/2021					<0.001	
9/22/2021	0.0053 (J)	<0.001	0.5	0.0019 (J)		<0.001
2/1/2022	0.003 (J)		0.77	0.042		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			0.309	0.049		
8/31/2022	0.00252				<0.001	
9/1/2022		<0.001				<0.001
2/1/2023	0.00484		0.384			<0.001
2/2/2023		<0.001		0.0352	0.000334 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.0011 (J)
1/21/2021	<0.001	0.0014 (J)	
3/11/2021	<0.001	0.0035 (J)	0.0015 (J)
9/22/2021	<0.001	0.0032 (J)	
9/23/2021			<0.001
2/1/2022		0.0024 (J)	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		0.000863 (J)
9/1/2022		0.00174	
2/1/2023	<0.001		
2/2/2023		0.00113	<0.001

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013			6.22	5.95	5.25	5.38
10/11/2014		4.42				
10/24/2016		4.36				
10/25/2016	6.17					5.51
10/26/2016			6.06	5.27	5.21	
1/3/2017		4.28		5.09		
1/4/2017						5.46
1/5/2017					5.2	
1/6/2017	6.16		6.02			
4/3/2017		4.29				
4/4/2017			6.08			5.43
4/6/2017	6.26			5.22	5.17	
7/11/2017		4.35				
7/12/2017			5.93	5.29	5.24	5.46
7/13/2017	5.99					
10/2/2017		4.32				
10/3/2017				5.08	5.36	5.65
10/4/2017	6.16		5.77			
1/9/2018	6.43	4.44			5.4	
1/10/2018				5.83		5.67
1/11/2018			5.98			
7/9/2018		4.4				
7/10/2018				6.42	5.31	5.71
7/11/2018	6.1		6.01			
1/16/2019	6.05	6.16 (O)	5.83	6.66	5.99	5.59
3/25/2019	6.06	4.4	5.74			
3/26/2019				5.1	5.94	5.77
8/26/2019	5.91	4.26				
8/27/2019			5.7		5.67	5.84
8/28/2019				5.95		
10/7/2019		4.24				
10/8/2019	5.74					
10/9/2019			5.79	6.11	5.66	5.82
4/6/2020	6.02	4.52				
4/7/2020			5.74	5.45	5.86	5.3
8/17/2020		4.23				
8/19/2020	5.81 (D)		5.7	5.14 (D)	5.21	5.73
9/28/2020	5.86	4.41				5.79
9/30/2020				4.99	5.39	
10/1/2020			5.75			
3/10/2021			5.23	4.73	5.69	5.42
3/11/2021	5.85					
3/12/2021		4.54				
9/21/2021	6.03	4.44	5.78	4.68	5.4	
9/23/2021						6.06
1/31/2022	5.94	4.39				
2/2/2022			5.71		5.75	
2/3/2022				4.48		5.89
8/30/2022	5.98	4.58	5.67	5.22	5.55	
9/1/2022						5.8
1/31/2023	6.02	4.6				
2/1/2023				5.81	5.54	

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/2/2023			5.99			5.78

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013	5.2	4.17	4.95	4.62	5.96	4.92
10/11/2014				4.58		5.17
10/25/2016				4.79	6.46	5.58
10/26/2016	5.08	4.04	4.95			
1/4/2017	5.06	4.01				5.51
1/5/2017			4.97	4.73	6.25	
4/3/2017					6.25	
4/4/2017				4.68		
4/5/2017		4	4.81			5.51
4/6/2017	4.97					
7/10/2017		3.89				
7/11/2017	5.26			4.72	6.5	
7/12/2017			4.83			5.84
10/2/2017				5.13	6.83	
10/3/2017	5.07					5.55
10/4/2017		4.06	4.71			
1/9/2018				5.59	6.57	
1/10/2018			5.17			5.99
1/11/2018	5.18	3.96				
7/9/2018				5.11		
7/10/2018					6.42	5.5
7/11/2018	4.82	3.95	4.49			
1/16/2019			6.45 (O)	6.82		
1/17/2019	4.91	3.89			8.44 (O)	7.13
3/26/2019			4.96	5.74	6.65	5.57
3/27/2019	5.18	4.11				
8/27/2019	5.17	4.02	4.9	5.58	6.57	
8/28/2019						5.57
10/8/2019	4.93		4.81	5.68	6.65	5.54
10/9/2019		4.25				
4/7/2020	5.05	4.1		6.2	6.83	5.94
4/8/2020			4.81			
8/17/2020		3.94	4.65			
8/18/2020	4.41			5.56	6.39	5.52
9/28/2020			4.76			
9/29/2020	4.77	3.95		5.69		
9/30/2020					6.71	5.47
3/10/2021	4.97	4.08				
3/12/2021					6.21	
3/15/2021			4.74			
3/16/2021				5.53		5.67
9/21/2021	4.92	4.05	4.83			
9/22/2021				5.76		5.57
9/23/2021					6.48	
2/1/2022						5.57
2/2/2022				5.98		
2/3/2022	4.98	4.04	4.97		6.61	
8/30/2022		3.92		5.86		
8/31/2022	4.85		4.76		6.57	
9/1/2022						5.37
2/1/2023	4.71	3.93	4.86			5.23
2/2/2023				5.98	6.65	

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/16/2013	4.55	4.52	6.1	5.71	4.91	5.05
10/25/2016			6.06	5.41		
10/26/2016	4.45	4.48			4.6	
10/27/2016						4.65
1/4/2017			6.05	5.6	4.63	
1/5/2017	4.45	4.85				
1/6/2017						4.56
4/4/2017		4.58	6.03	5.94		
4/5/2017	4.33					
4/6/2017					4.79	4.5
7/11/2017			5.96		4.73	
7/12/2017						4.56
7/13/2017	4.11	4.74		5.6		
10/2/2017			5.88			
10/3/2017		4.57		5.18		
10/4/2017	4.09				4.74	4.72
1/9/2018				6.14		
1/10/2018		5.31	6.21			
1/11/2018	4.4				5.22	4.34
7/9/2018			6.24			
7/10/2018		4.58		5.7		
7/11/2018	4.07				4.68	4.68
1/16/2019	4.05					
1/17/2019				7.39		
1/18/2019					6.98 (O)	6.87 (O)
1/21/2019		5.05	7.73 (O)			
3/25/2019			6.28			
3/26/2019	4.62			6.08		
3/27/2019					4.77	4.38
7/30/2019		4.74				
8/27/2019		4.77			4.89	
8/28/2019	4.62		6.34	6.05		4.68
10/8/2019				6.09		
10/9/2019	4.66	4.79	6.5		4.68	4.62
4/7/2020				6	4.8	
4/8/2020	4.71	4.66	6.31			4.73
8/18/2020	4.31	4.6	5.89	5.82	4.52	
8/19/2020						4.58
9/29/2020		4.6				
9/30/2020	4.08		6.04	5.82	4.63	
10/1/2020						4.42
3/10/2021					4.82	4.55
3/11/2021	5.2					
3/12/2021			5.86			
3/15/2021		4.56				
3/16/2021				5.74		
9/21/2021					4.72	
9/22/2021	4.63	4.71	6	5.39		4.7
2/1/2022	4.53		5.9	5.76		
2/2/2022		4.79				4.66
2/3/2022					4.63	
8/30/2022			6.01	5.76		

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	4.33				4.68	
9/1/2022		4.73				4.6
2/1/2023	4.74		6.01			4.57
2/2/2023		4.6		5.71	4.63	

Time Series

Constituent: pH (SU) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			6.25
1/21/2021	5.75	6.13	
3/11/2021	5.82	6.47	6.31
9/22/2021	6.39	6.76	
9/23/2021			6.21
2/1/2022		6.63	
2/3/2022	6.14		6.15
8/31/2022	6.06		6.29
9/1/2022		6.08	
2/1/2023	6.16		
2/2/2023		6.23	6.19

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
11/21/2000	<0.025		<0.005	<0.005	<0.01	<0.01
1/20/2001	<0.025	<0.005	0.014 (O)	<0.005	<0.01	0.017
3/14/2001	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
7/16/2001	<0.025	<0.005	0.015 (O)	<0.005	<0.01	<0.01
11/1/2001	<0.025	<0.005	0.012 (O)	<0.005	<0.01	<0.01
4/25/2002	<0.025	<0.005	0.01	<0.005	<0.01	0.012
11/20/2002		<0.005	0.026 (O)	0.0064	0.008	0.19 (O)
6/6/2003	<0.025	<0.005	0.022 (O)	0.011	0.0066	0.32 (O)
12/12/2003	<0.025	<0.005	0.028 (O)	<0.005	0.0056	0.013
5/26/2004	<0.025	<0.005	0.012 (O)	0.007	0.0084	0.017
12/7/2004	<0.025	<0.005	0.0073	<0.005	<0.01	0.011
6/21/2005	<0.025	<0.005	0.0087	0.0063	0.0062	0.0088
12/12/2005	<0.025	<0.005	0.013 (O)	<0.005	<0.01	0.011
4/4/2006		<0.005				
6/27/2006	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
8/30/2006		<0.005				
12/4/2006	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
2/15/2007		<0.005				
6/23/2007	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
9/11/2007		<0.005				
12/11/2007	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
3/11/2008		<0.005				
6/23/2008	<0.025	<0.005				
6/24/2008			<0.005	<0.005	<0.01	<0.01
11/3/2008		<0.005				
12/4/2008	<0.025	<0.005				
12/5/2008			<0.005	<0.005	<0.01	<0.01
3/25/2009		<0.005				
7/7/2009	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
9/14/2009		<0.005				
12/20/2009	<0.025	<0.005				<0.01
12/21/2009			<0.005	<0.005	<0.01	
3/4/2010		<0.005				
6/20/2010	<0.025	<0.005		<0.005	<0.01	<0.01
6/21/2010			<0.005			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.01
1/7/2011	<0.025	<0.005	<0.005		<0.01	
4/15/2011		<0.005				
7/7/2011	<0.025	<0.005		<0.005	<0.01	<0.01
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.025	<0.005		<0.005		<0.01
1/18/2012			<0.005		<0.01	
4/4/2012		<0.005				
7/9/2012	<0.025			<0.005		<0.01
7/10/2012		<0.005	<0.005		<0.01	
10/9/2012		<0.005				
1/17/2013				<0.005		<0.01
1/18/2013	0.009	<0.005	<0.005		<0.01	
4/5/2013		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		0.012
7/17/2013	0.011	<0.005	<0.005		<0.01	
10/11/2013		<0.005				
1/13/2014	0.012			<0.005		<0.01
1/14/2014		<0.005	<0.005		<0.01	
4/3/2014		<0.005				
7/9/2014	0.011	<0.005	<0.005	<0.005	<0.01	<0.01
10/24/2014		<0.005				
1/12/2015			<0.005			
1/13/2015	0.0092			<0.005		<0.01
1/14/2015		<0.005			<0.01	
5/10/2015		<0.005				
7/16/2015	0.014		<0.005	<0.005		<0.01
7/17/2015		<0.005			<0.01	
10/6/2015		<0.005				
1/17/2016						0.023
1/18/2016	0.023	<0.005	<0.005	<0.005	<0.01	
4/26/2016		<0.005				
7/27/2016	0.0323			<0.005		0.002 (J)
7/28/2016		0.001 (J)			<0.01	
7/29/2016			0.0036 (J)			
8/30/2016		<0.005		<0.005	<0.01	0.002 (J)
9/1/2016	0.0438		0.0067 (J)			
10/24/2016		0.0013 (J)				
10/25/2016	0.031					0.0022 (J)
10/26/2016			0.0042 (J)	<0.005	<0.01	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0016 (J)
1/5/2017					0.0014 (J)	
1/6/2017	0.0324		0.0042 (J)			
4/3/2017		<0.005				
4/4/2017			0.0043 (J)			0.0052 (J)
4/6/2017	0.0188 (J)			<0.005	<0.01	
7/11/2017		<0.005				
7/12/2017			0.0033 (J)	<0.005	<0.01	0.0024 (J)
7/13/2017	0.0118					
10/2/2017		<0.005				
10/3/2017				<0.005	<0.01	<0.01
10/4/2017	0.0195		0.0038 (J)			
1/9/2018	<0.025	<0.005			<0.01	
1/10/2018				<0.005		0.0018 (J)
1/11/2018			0.0029 (J)			
7/9/2018		<0.005				
7/10/2018				0.0018 (J)	0.0016 (J)	0.0026 (J)
7/11/2018	<0.025		0.0015 (J)			
1/16/2019	0.0071 (J)	<0.005	<0.005	<0.005	<0.01	0.0018 (J)
3/25/2019	<0.025	<0.005	<0.005			
3/26/2019				<0.005	0.05 (J)	0.0023 (J)
8/26/2019	<0.025	<0.005				
8/27/2019			<0.005		0.0033 (J)	0.0016 (J)
8/28/2019				0.0033 (J)		
10/7/2019		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0072 (J)					
10/9/2019			<0.005	0.0073 (J)	<0.01	0.0024 (J)
4/6/2020	0.0078 (J)	<0.005				
4/7/2020			0.0025 (J)	<0.005	<0.01	0.0013 (J)
8/17/2020		<0.005				
8/19/2020	<0.025		<0.005	<0.005	<0.01	0.002 (J)
9/28/2020	0.01 (J)	<0.005				<0.01
9/30/2020				<0.005	0.0023 (J)	
10/1/2020			<0.005			
3/10/2021			0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)
3/11/2021	<0.025					
3/12/2021		<0.005				
9/21/2021	<0.025	<0.005	<0.005	<0.005	0.0016 (J)	
9/23/2021						0.0018 (J)
1/31/2022	<0.025	<0.005				
2/2/2022			<0.005		0.0017 (J)	
2/3/2022				<0.005		0.0022 (J)
8/30/2022	0.0063	<0.005	0.00265 (J)	<0.005	0.00277 (J)	
9/1/2022						0.00252 (J)
1/31/2023	0.00443 (J)	<0.005				
2/1/2023				0.00187 (J)	0.00182 (J)	
2/2/2023			0.00466 (J)			0.0022 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.01	<0.005	<0.005	0.052	<0.005	<0.005
1/20/2001	<0.01	<0.005	<0.005	0.053	<0.005	<0.005
3/14/2001	<0.01	<0.005	<0.005	0.049	<0.005	<0.005
7/16/2001	<0.01	<0.005	<0.005	0.038	<0.005	<0.005
11/1/2001	<0.01	<0.005	<0.005	0.022	<0.005	<0.005
4/25/2002	<0.01	<0.005	<0.005	0.1 (O)	<0.005	<0.005
11/20/2002	<0.01	<0.005	<0.005	0.018	0.0094	<0.005
6/6/2003	<0.01	<0.005	<0.005	<0.005	0.021 (O)	0.021 (O)
12/12/2003	<0.01	<0.005	<0.005	<0.005	0.016 (O)	0.0078
5/26/2004	<0.01	<0.005	<0.005	0.023	<0.005	0.0053
12/7/2004	<0.01	<0.005	<0.005	0.019	<0.005	<0.005
6/21/2005	<0.01	<0.005	<0.005	0.019	<0.005	<0.005
12/12/2005	<0.01	<0.005	<0.005	0.0095	<0.005	<0.005
4/4/2006				0.033		<0.005
6/27/2006	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006				<0.005		<0.005
12/4/2006	<0.01	<0.005	<0.005	0.032	<0.005	<0.005
2/15/2007				0.034		<0.005
6/23/2007	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007				0.022		<0.005
12/11/2007	<0.01	<0.005	<0.005	0.045	<0.005	<0.005
3/11/2008				0.02		<0.005
6/23/2008	<0.01	<0.005	<0.005			
6/24/2008				<0.005	<0.005	<0.005
11/3/2008				0.052		<0.005
12/4/2008	<0.01	<0.005	<0.005	0.054		
12/5/2008					<0.005	<0.005
3/25/2009				0.072		<0.005
7/8/2009	<0.01	<0.005	<0.005	0.021	<0.005	<0.005
9/14/2009				0.015		<0.005
12/20/2009				0.072	<0.005	<0.005
12/21/2009	<0.01	<0.005	<0.005			
3/4/2010				0.083		<0.005
6/20/2010	<0.01	<0.005	<0.005	0.1	<0.005	
6/21/2010						<0.005
9/14/2010				0.085		<0.005
1/6/2011	<0.01		<0.005			
1/7/2011		<0.005		0.028	<0.005	<0.005
4/15/2011				<0.005		<0.005
7/7/2011	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2011				0.02		<0.005
1/17/2012	0.023	<0.005	<0.005	0.016	<0.005	
1/18/2012						<0.005
4/4/2012				0.0156		<0.005
7/9/2012	0.016	<0.005	<0.005	<0.005	0.066 (O)	
7/10/2012						<0.005
10/9/2012				0.0094		<0.005
1/17/2013	0.033	<0.005	<0.005			
1/18/2013				0.0067	0.04 (O)	<0.005
4/5/2013				0.0077		<0.005
7/16/2013	0.0068	<0.005	<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.01	<0.005	<0.005
10/11/2013				0.0087		0.0069
1/13/2014	0.036	<0.005	<0.005		<0.005	
1/14/2014				0.012		<0.005
4/3/2014				0.022		<0.005
7/8/2014	0.017	<0.005	<0.005			
7/9/2014				0.0089	<0.005	0.005
10/24/2014				0.017		<0.005
1/13/2015	0.027	<0.005	<0.005		<0.005	
1/14/2015				<0.005		<0.005
5/10/2015				<0.005		
5/11/2015						<0.005
7/16/2015	<0.01	<0.005	<0.005		<0.005	<0.005
7/17/2015				<0.005		
10/6/2015				<0.005		0.0073
1/17/2016				<0.005	<0.005	0.0031 (J)
1/18/2016		<0.005	<0.005			
1/19/2016	0.023					
4/26/2016				0.00428 (J)		0.00497 (J)
7/26/2016	0.0056 (J)		<0.005			
7/27/2016		0.0025 (J)		0.0038 (J)	<0.005	
7/28/2016						0.0076 (J)
8/31/2016	0.0084 (J)	0.0019 (J)	<0.005			
9/1/2016				0.0056 (J)	<0.005	0.0052 (J)
10/25/2016				0.0023 (J)	<0.005	0.0085 (J)
10/26/2016	0.0052 (J)	0.002 (J)	<0.005			
1/4/2017	0.0062 (J)	<0.005				0.0048 (J)
1/5/2017			<0.005	0.0038 (J)	<0.005	
4/3/2017					<0.005	
4/4/2017				0.0064 (J)		
4/5/2017		<0.005				0.0068 (J)
4/6/2017	0.0195		<0.005			
7/10/2017		<0.005				
7/11/2017	<0.01			0.0044 (J)	<0.005	
7/12/2017			<0.005			0.0048 (J)
10/2/2017				0.004 (J)	<0.005	
10/3/2017	0.0079 (J)					0.0051 (J)
10/4/2017		<0.005	<0.005			
1/9/2018				0.0019 (J)	0.0019 (J)	
1/10/2018			<0.005			0.0018 (J)
1/11/2018	0.0054 (J)	<0.005				
7/9/2018				0.0029 (J)		
7/10/2018					0.0086 (J)	0.0045 (J)
7/11/2018	0.0022 (J)	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.01	<0.005			0.0029 (J)	0.0031 (J)
3/26/2019			<0.005	0.0022 (J)	0.0074 (J)	0.0033 (J)
3/27/2019	0.01 (J)	<0.005				
8/27/2019	<0.01	<0.005	<0.005	0.0035 (J)	0.0092 (J)	
8/28/2019						0.004 (J)
10/8/2019	<0.01		<0.005	0.0026 (J)	0.014	0.0023 (J)
10/9/2019		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.0021 (J)	<0.005		0.005 (J)	0.0029 (J)	<0.005
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	0.0028 (J)			0.0029 (J)	0.0022 (J)	0.0058 (J)
9/28/2020			<0.005			
9/29/2020	0.0024 (J)	<0.005		0.0051 (J)		
9/30/2020					<0.005	0.0037 (J)
3/10/2021	0.0044 (J)	0.003 (J)				
3/12/2021					0.0064	
3/15/2021			<0.005			
3/16/2021				0.0034 (J)		0.0044 (J)
9/21/2021	0.0038 (J)	<0.005	<0.005			
9/22/2021				0.0034 (J)		0.0031 (J)
9/23/2021					0.0016 (J)	
2/1/2022						0.0024 (J)
2/2/2022				0.0038 (J)		
2/3/2022	0.019	<0.005	<0.005		0.0031 (J)	
8/30/2022		<0.005		0.00544		
8/31/2022	0.00344 (J)		<0.005		0.00192 (J)	
9/1/2022						0.00334 (J)
2/1/2023	0.00333 (J)	<0.005	<0.005			<0.005
2/2/2023				0.0035 (J)	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				0.0062
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		<0.005	0.048	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		<0.005	0.014	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		<0.005	0.018	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		<0.005	<0.013	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		<0.005	0.02	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.005	0.015	<0.005	<0.005
7/17/2013	<0.005	<0.005	<0.005	0.037	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		<0.005	0.043	<0.005	<0.005
7/9/2014	<0.005	<0.005		0.023		<0.005
7/10/2014			<0.005		<0.005	
1/12/2015			<0.005			
1/13/2015		<0.005				
1/14/2015	<0.005			0.022	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				0.033		<0.005
7/18/2015	<0.005		<0.005		<0.005	
1/17/2016		<0.005	<0.005	0.021		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		0.002 (J)				
7/28/2016			<0.005	0.0341		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0011 (J)				0.0022 (J)	
8/31/2016		<0.005			0.0014 (J)	<0.005
9/1/2016	0.0012 (J)		<0.005	0.0297		
10/25/2016			0.0014 (J)	0.0095 (J)		
10/26/2016	0.0013 (J)	0.0035 (J)			0.001 (J)	
10/27/2016						<0.005
1/4/2017			0.0014 (J)	0.022	<0.005	
1/5/2017	0.0012 (J)	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	<0.005	0.0236		
4/5/2017	<0.005					
4/6/2017					<0.005	<0.005
7/11/2017			<0.005		<0.005	
7/12/2017						<0.005
7/13/2017	0.0018 (J)	<0.005		0.013		
10/2/2017			<0.005			
10/3/2017		<0.005		0.01 (J)		
10/4/2017	0.0042 (J)				0.0023 (J)	<0.005
1/9/2018				0.0162		
1/10/2018		<0.005	<0.005			
1/11/2018	<0.005				<0.005	<0.005
7/9/2018			<0.005			
7/10/2018		<0.005		0.016		
7/11/2018	0.0016 (J)				<0.005	<0.005
1/16/2019	<0.005					
1/17/2019				0.011		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.0014 (J)			
3/25/2019			<0.005			
3/26/2019	<0.005			0.022		
3/27/2019					<0.005	<0.005
7/30/2019		<0.005				
8/27/2019		<0.005			<0.005	
8/28/2019	<0.005		0.0014 (J)	0.019		<0.005
10/8/2019				0.019		
10/9/2019	<0.005	<0.005	<0.005		<0.005	<0.005
4/7/2020				0.012	<0.005	
4/8/2020	<0.005	<0.005	0.0013 (J)			<0.005
8/18/2020	0.002 (J)	<0.005	<0.005	0.013	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	<0.005		<0.005	0.0061 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0016 (J)					
3/12/2021			<0.005			
3/15/2021		<0.005				
3/16/2021				0.0055		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.0024 (J)	0.0027 (J)		<0.005
2/1/2022	<0.005		<0.005	0.0054		
2/2/2022		<0.005				<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.00192 (J)	0.00648		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005
2/1/2023	<0.005		<0.005			<0.005
2/2/2023		<0.005		0.00542	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.005	<0.005	<0.005
9/22/2021	<0.005	<0.005	
9/23/2021			<0.005
2/1/2022		<0.005	
2/3/2022	<0.005		<0.005
8/31/2022	<0.005		<0.005
9/1/2022		<0.005	
2/1/2023	<0.005		
2/2/2023		<0.005	<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		140		100	120	87
9/1/2016	73		210			
10/24/2016		160				
10/25/2016	26					83
10/26/2016			230	130	120	
1/3/2017		140		120		
1/4/2017						99
1/5/2017					130	
1/6/2017	23		220			
4/3/2017		140				
4/4/2017			230			110
4/6/2017	25			140	150	
7/11/2017		130				
7/12/2017			210	140	140	100
7/13/2017	65					
10/2/2017		150				
10/3/2017				130	140	63
10/4/2017	13		290			
1/9/2018	45	120			140	
1/10/2018				110		86
1/11/2018			210			
7/9/2018		123				
7/10/2018				48.1	128	77.7
7/11/2018	37.7		177			
1/16/2019	24.5	129	244	184	402	71.2
3/25/2019	14.7	152	245			
3/26/2019				222	319	73.8
10/7/2019		156				
10/8/2019	32.8					
10/9/2019			38.5	90.8	255	76.3
4/6/2020	20.3	123				
4/7/2020			221	180	180	83
9/28/2020	20	93.6				71.6
9/30/2020				339	339	
10/1/2020			178			
3/10/2021			160	572	1160	61.2
3/11/2021	12					
3/12/2021		103				
9/21/2021	11.1	96.5	232	829	645	
9/23/2021						37.3
1/31/2022	15	89.7				
2/2/2022			338		1460	
2/3/2022				797		49.2
8/30/2022	10.6	77.4	379	403	978	
9/1/2022						44
1/31/2023	7.88	79.3		190	842	
2/1/2023						
2/2/2023			337			35.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	64	1100	43			
9/1/2016				730	120	430
10/25/2016				420	100	360
10/26/2016	56	900	29			
1/4/2017	65	880				360
1/5/2017			32	430	140	
4/3/2017					150	
4/4/2017				600		
4/5/2017		990				440
4/6/2017	110		49			
7/10/2017		480				
7/11/2017	49			400	110	
7/12/2017			16			490
10/2/2017				470	56	
10/3/2017	140					780
10/4/2017		760	33			
1/9/2018				440	84	
1/10/2018			22			470
1/11/2018	270	780				
7/9/2018				369		
7/10/2018					43	787
7/11/2018	211	598	17.8			
1/16/2019			20.2	291		
1/17/2019	50.3	454			45.2	780
3/26/2019			33.6	192	54	87.9
3/27/2019	76.8	579				
10/8/2019	310		22	428	45.8	872
10/9/2019		392				
4/7/2020	446	297		456	26.9	844
4/8/2020			30.7			
9/28/2020			25.6			
9/29/2020	516	237		93.5		
9/30/2020					18.5	736
3/10/2021	687	282				
3/12/2021					21.1	
3/15/2021			30.6			
3/16/2021				92		821
9/21/2021	433	315	36.6			
9/22/2021				444		1040
9/23/2021					124	
2/1/2022						1010
2/2/2022				589		
2/3/2022	347	333	32.1		102	
8/30/2022		415		410		
8/31/2022	653		29		88.5	
9/1/2022						1140
2/1/2023	1090	527	34.5			1160
2/2/2023				220	34.3	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		21			700	84
9/1/2016	310		180	36		
10/25/2016			79	16		
10/26/2016	280	100			850	
10/27/2016						76
1/4/2017			170	45	680	
1/5/2017	310	22				
1/6/2017						66
4/4/2017		29	300	46		
4/5/2017	460					
4/6/2017					220	79
7/11/2017			400		210	
7/12/2017						75
7/13/2017	490	20		33		
10/2/2017			390			
10/3/2017		20		34		
10/4/2017	1100				730	78
1/9/2018				29		
1/10/2018		9.5	99			
1/11/2018	810				180	110
7/9/2018			99.2			
7/10/2018		8.5		33.2		
7/11/2018	902				381	87.4
1/16/2019	422					
1/17/2019				24.1		
1/18/2019					107	56.9
1/21/2019		10.2	35.5			
3/25/2019			95.6			
3/26/2019	439			83.9		
3/27/2019					103	76.2
7/30/2019		12.3				
10/8/2019				85.6		
10/9/2019	346	10.1	58.5		80.2	41.1
4/7/2020				33.2	333	
4/8/2020	239	12.9	428			34.2
9/29/2020		8.6				
9/30/2020	193		956	306	65.5	
10/1/2020						35
3/10/2021					101	38.7
3/11/2021	244					
3/12/2021			933			
3/15/2021		10				
3/16/2021				343		
9/21/2021					52.4	
9/22/2021	394	10.3	905	14.6		42.7
2/1/2022	416		862	374		
2/2/2022		9				31.5
2/3/2022					46.2	
8/30/2022			606	451		
8/31/2022	721				45.3	
9/1/2022		10.3				28.7
2/1/2023	547		596			25.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		11.9		447	71.6	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			1.6
1/21/2021	5	0.79 (J)	
3/11/2021	62.4	<0.4	0.52 (J)
9/22/2021	84.6	<0.4	
9/23/2021			0.7 (J)
2/1/2022		<0.4	
2/3/2022	64.8		<0.4
8/31/2022	54.6		1.12
9/1/2022		0.682	
2/1/2023	40.3		
2/2/2023		<0.4	<0.4

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002		<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0005 (J)		<0.002			
10/24/2016		<0.002				
10/25/2016	<0.002					<0.002
10/26/2016			<0.002	<0.002	<0.002	
1/3/2017		<0.002		<0.002		
1/4/2017						<0.002
1/5/2017					<0.002	
1/6/2017	<0.002		<0.002			
4/3/2017		<0.002				
4/4/2017			7E-05 (J)			5E-05 (J)
4/6/2017	<0.002			<0.002	<0.002	
7/11/2017		5E-05 (J)				
7/12/2017			<0.002	<0.002	<0.002	<0.002
7/13/2017	<0.002					
10/2/2017		6E-05 (J)				
10/3/2017				<0.002	<0.002	<0.002
10/4/2017	<0.002		<0.002			
1/9/2018	<0.002	<0.002			<0.002	
1/10/2018				<0.002		<0.002
1/11/2018			7E-05 (J)			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	<0.002		<0.002			
8/26/2019	<0.002	<0.002				
8/27/2019			<0.002		<0.002	<0.002
8/28/2019				5.7E-05 (J)		
10/7/2019		6.2E-05 (J)				
10/8/2019	<0.002					
10/9/2019			<0.002	0.00031 (J)	<0.002	5.4E-05 (J)
4/6/2020	<0.002	<0.002				
4/7/2020			<0.002	<0.002	<0.002	5.4E-05 (J)
8/17/2020		<0.002				
8/19/2020	<0.002		<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/28/2020	<0.002	<0.002				<0.002
9/30/2020				<0.002	<0.002	
10/1/2020			<0.002			
3/10/2021			<0.002	<0.002	<0.002	<0.002
3/11/2021	<0.002					
3/12/2021		<0.002				
9/21/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.002	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002
1/31/2023	<0.002	<0.002				
2/1/2023				<0.002	<0.002	
2/2/2023			<0.002			<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2016	<0.002	<0.002	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	<0.002
10/26/2016	<0.002	0.0003 (J)	<0.002			
1/4/2017	<0.002	<0.002				<0.002
1/5/2017			<0.002	<0.002	<0.002	
4/3/2017					<0.002	
4/4/2017				7E-05 (J)		
4/5/2017		0.0002 (J)				6E-05 (J)
4/6/2017	6E-05 (J)		<0.002			
7/10/2017		0.0002 (J)				
7/11/2017	<0.002			6E-05 (J)	<0.002	
7/12/2017			<0.002			<0.002
10/2/2017				<0.002	<0.002	
10/3/2017	7E-05 (J)					<0.002
10/4/2017		0.0002 (J)	<0.002			
1/9/2018				<0.002	<0.002	
1/10/2018			<0.002			5E-05 (J)
1/11/2018	0.0001 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	<0.002			
8/27/2019	<0.002	0.00011 (J)	<0.002	<0.002	<0.002	
8/28/2019						<0.002
10/8/2019	9.8E-05 (J)		<0.002	<0.002	<0.002	<0.002
10/9/2019		0.00014 (J)				
4/7/2020	0.00019 (J)	0.00013 (J)		<0.002	<0.002	<0.002
4/8/2020			<0.002			
8/17/2020		<0.002	<0.002			
8/18/2020	0.00021 (J)			<0.002	<0.002	<0.002
9/28/2020			<0.002			
9/29/2020	0.00017 (J)	<0.002		<0.002		
9/30/2020					<0.002	<0.002
3/10/2021	0.00022 (J)	<0.002				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.002	
3/15/2021			<0.002			
3/16/2021				<0.002		<0.002
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002
2/1/2023	<0.002	<0.002	<0.002			<0.002
2/2/2023				<0.002	<0.002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	<0.002				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				<0.002
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
8/31/2016		<0.002			<0.002	<0.002
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			<0.002	<0.002		
10/26/2016	<0.002	<0.002			<0.002	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	<0.002	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		<0.002	<0.002	5E-05 (J)		
4/5/2017	0.0001 (J)					
4/6/2017					<0.002	<0.002
7/11/2017			<0.002		<0.002	
7/12/2017						<0.002
7/13/2017	<0.002	<0.002		<0.002		
10/2/2017			<0.002			
10/3/2017		<0.002		<0.002		
10/4/2017	0.0001 (J)				0.0001 (J)	<0.002
1/9/2018				<0.002		
1/10/2018		<0.002	<0.002			
1/11/2018	0.0001 (J)				6E-05 (J)	<0.002
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				<0.002	<0.002
7/30/2019		0.00011 (J)				
8/27/2019		<0.002			8.6E-05 (J)	
8/28/2019	6.6E-05 (J)		<0.002	<0.002		<0.002
10/8/2019				<0.002		
10/9/2019	7.6E-05 (J)	<0.002	<0.002		<0.002	<0.002
4/7/2020				<0.002	6.5E-05 (J)	
4/8/2020	5.6E-05 (J)	<0.002	<0.002			<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	0.00017 (J)	
8/19/2020						<0.002
9/29/2020		<0.002				
9/30/2020	<0.002		<0.002	<0.002	<0.002	
10/1/2020						<0.002
3/10/2021					<0.002	<0.002
3/11/2021	<0.002					

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
3/12/2021			<0.002			
3/15/2021		<0.002				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002
2/1/2023	<0.002		<0.002			<0.002
2/2/2023		<0.002		<0.002	<0.002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.002	<0.002	<0.002
9/22/2021	<0.002	<0.002	
9/23/2021			<0.002
2/1/2022		<0.002	
2/3/2022	<0.002		<0.002
8/31/2022	<0.002		<0.002
9/1/2022		<0.002	
2/1/2023	<0.002		
2/2/2023		<0.002	<0.002

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		234		224	365	225
9/1/2016	3660		1080			
10/24/2016		216				
10/25/2016	3560					230
10/26/2016			1050	297	373	
1/3/2017		333		366		
1/4/2017						349
1/5/2017					543	
1/6/2017	3490		1060			
4/3/2017		288				
4/4/2017			994			356
4/6/2017	3170			279	434	
7/11/2017		188				
7/12/2017			1070	308	454	357
7/13/2017	2280					
10/2/2017		210				
10/3/2017				288	389	192
10/4/2017	3350		1100			
1/9/2018	2640	118			415	
1/10/2018				493		277
1/11/2018			838			
7/9/2018		235				
7/10/2018				1730 (O)	453	349
7/11/2018	2200		799			
1/16/2019	2100	219	530	382	1320	341
3/25/2019	2100	240	479			
3/26/2019				1040	1250	317
10/7/2019		275				
10/8/2019	1840					
10/9/2019			502	2010	903	338
4/6/2020	1670	214				
4/7/2020			482	483	775	195
9/28/2020	1450	175				373
9/30/2020				652	816	
10/1/2020			424			
3/10/2021			434	1040	2120	329
3/11/2021	1220					
3/12/2021		163				
9/21/2021	1210	145	476	1240	985	
9/23/2021						360
1/31/2022	1260	153				
2/2/2022			654		2440	
2/3/2022				1240		315
8/30/2022	1340	154	882	886	1810	
9/1/2022						228
1/31/2023	1230	122				
2/1/2023				1240	1570	
2/2/2023			1180			166

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	119	1560	77			
9/1/2016				1170	539	878
10/25/2016				633	449	585
10/26/2016	108	1520	<10			
1/4/2017	182	1430				783
1/5/2017			146	781	565	
4/3/2017					632	
4/4/2017				916		
4/5/2017		1200				722
4/6/2017	248		23 (J)			
7/10/2017		1100				
7/11/2017	88			675	569	
7/12/2017			39			962
10/2/2017				689	559	
10/3/2017	248					1240
10/4/2017		986	38			
1/9/2018				653	520	
1/10/2018			<10			935
1/11/2018	681	1020				
7/9/2018				659		
7/10/2018					524	1040
7/11/2018	440	888	63			
1/16/2019			44	656		
1/17/2019	118	765			518 (D)	1320
3/26/2019			72	496	541	1380
3/27/2019	138	673				
10/8/2019	613		51	841	526	1500
10/9/2019		647				
4/7/2020	780	464		843	428	1500
4/8/2020			65			
9/28/2020			60			
9/29/2020	1100	440		187		
9/30/2020					434	1140
3/10/2021	1240	566				
3/12/2021					353	
3/15/2021			<10			
3/16/2021				137		980
9/21/2021	842	558	83			
9/22/2021				864		1680
9/23/2021					556	
2/1/2022						1990
2/2/2022				1130		
2/3/2022	538	566	72		516	
8/30/2022		713		720		
8/31/2022	1240		55		530	
9/1/2022						1720
2/1/2023	2010	694	37			2010
2/2/2023				566	440	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		39			1570	173
9/1/2016	1270		470	184		
10/25/2016			289	<25		
10/26/2016	1320	135			1840	
10/27/2016						221
1/4/2017			639	242	1560	
1/5/2017	1770	99				
1/6/2017						259
4/4/2017		54	660	187		
4/5/2017	1600					
4/6/2017					368	169
7/11/2017			836		383	
7/12/2017						163
7/13/2017	1940	50		86		
10/2/2017			698			
10/3/2017		18 (J)		66		
10/4/2017	2370				1500	168
1/9/2018				167		
1/10/2018		<10	322			
1/11/2018	2350				438	190
7/9/2018			461			
7/10/2018		49		180		
7/11/2018	2260				876	165
1/16/2019	1540					
1/17/2019				178		
1/18/2019					154	118
1/21/2019		39	307			
3/25/2019			449			
3/26/2019	1220			292		
3/27/2019					158	104
7/30/2019		70				
10/8/2019				278		
10/9/2019	1100	46	434		211	128
4/7/2020				106	819	
4/8/2020	881	38	986			80
9/29/2020		33				
9/30/2020	752		1860	634	113	
10/1/2020						111
3/10/2021					210	89
3/11/2021	705					
3/12/2021			1730			
3/15/2021		11				
3/16/2021				454		
9/21/2021					87	
9/22/2021	1530	33	1430	51		94
2/1/2022	1580		1580	783		
2/2/2022		43				96
2/3/2022					89	
8/30/2022			1210	807		
8/31/2022	2050				163	
9/1/2022		9 (J)				85
2/1/2023	1470		2290			59

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		<10		775	113	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			58
1/21/2021	41	50	
3/11/2021	149	53	57
9/22/2021	184	53	
9/23/2021			56
2/1/2022		75	
2/3/2022	156		58
8/31/2022	143		44
9/1/2022		20	
2/1/2023	103		
2/2/2023		21	23

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0025	<0.02	0.06	0.038	0.12	<0.01
11/21/2000	<0.0025		0.068	0.013	0.13	<0.01
1/20/2001	<0.0025	<0.02	0.12	0.038	0.14	<0.01
3/14/2001	<0.0025	<0.02	0.08	0.077 (O)	0.13	<0.01
7/16/2001	<0.0025	<0.02	0.11	0.12 (O)	0.18	<0.01
11/1/2001	<0.0025	<0.02	0.079	0.21 (O)	0.12	<0.01
4/25/2002	<0.0025	<0.02	0.11	0.086 (O)	0.15	<0.01
11/20/2002		<0.02	0.15	0.14 (O)	0.15	0.0069
6/6/2003	0.047	0.017	0.12	0.12 (O)	0.11	0.16 (O)
12/12/2003	0.0086	0.011	0.13	0.014	0.089	<0.01
5/26/2004	<0.0025	<0.02	0.095	0.06 (O)	0.09	<0.01
12/7/2004	<0.0025	<0.02	0.067	0.054	0.072	<0.01
6/21/2005	<0.0025	<0.02	0.062	0.038	0.04	<0.01
12/12/2005	<0.0025	<0.02	0.09	0.0056	0.021	<0.01
4/4/2006		<0.02				
6/27/2006	<0.0025	<0.02	0.083	0.0043	0.02	0.0029
8/30/2006		<0.02				
12/4/2006	0.0027	<0.02	0.084	0.0044	0.022	0.0047
2/15/2007		<0.02				
6/23/2007	0.0027	<0.02	0.081	0.0039	0.027	0.0029
9/11/2007		<0.02				
12/11/2007	0.0033	<0.02	0.067	0.0029	0.017	<0.01
3/11/2008		<0.02				
6/23/2008	0.0074	<0.02				
6/24/2008			0.059	0.003	0.053	<0.01
11/3/2008		<0.02				
12/4/2008	0.0084	<0.02				
12/5/2008			0.054	<0.01	0.0078	<0.01
3/25/2009		<0.02				
7/7/2009	0.023	<0.02	0.038	<0.01	0.012	<0.01
9/14/2009		<0.02				
12/20/2009	0.007	<0.02				<0.01
12/21/2009			0.06	<0.01	0.011	
3/4/2010		<0.02				
6/20/2010	0.0047	<0.02		<0.01	0.0083	0.0037
6/21/2010			0.036			
9/14/2010		<0.02				
1/6/2011				0.0067		<0.01
1/7/2011	0.018	<0.02	0.043		0.0079	
4/15/2011		<0.02				
7/7/2011	0.019	<0.02		0.019	0.007	0.0045
7/8/2011			0.044			
9/25/2011		<0.02				
1/17/2012	0.0298	<0.02		0.021		<0.01
1/18/2012			0.045		0.0116	
4/4/2012		<0.02				
7/9/2012	0.14			0.032		0.0026
7/10/2012		<0.02	0.048		0.0096	
10/9/2012		<0.02				
1/17/2013				0.034		<0.01
1/18/2013	0.21	<0.02	0.049		<0.005	
4/5/2013		<0.02				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.021		<0.01
7/17/2013	0.18	<0.02	0.05		<0.005	
10/11/2013		<0.02				
1/13/2014	0.24			0.008		<0.01
1/14/2014		<0.02	0.067		<0.005	
4/3/2014		0.0015 (J)				
7/9/2014	0.22	0.0012 (J)	0.055	0.0052	0.0039 (J)	0.0041 (J)
10/24/2014		<0.02				
1/12/2015			0.066			
1/13/2015	0.19			0.0036 (J)		0.0029 (J)
1/14/2015		<0.02			0.005	
5/10/2015		<0.02				
7/16/2015	0.23		0.045	0.004 (J)		0.0034 (J)
7/17/2015		<0.02			0.0045 (J)	
10/6/2015		0.0012 (J)				
1/17/2016						0.0046 (J)
1/18/2016	0.41	0.00079 (J)	0.049	0.0069	0.0044 (J)	
4/26/2016		<0.02				
7/27/2016	0.397			0.0046 (J)		0.0064 (J)
7/28/2016		<0.02			0.0038 (J)	
7/29/2016			0.0388			
10/24/2016		<0.02				
10/25/2016	0.425					
1/3/2017		<0.02		<0.01		
1/4/2017						<0.01
1/5/2017					0.0077 (J)	
1/6/2017	0.41		0.0341			
4/3/2017		<0.02				
4/4/2017			0.0371			0.0061 (J)
4/6/2017	0.297			0.0063 (J)	0.0069 (J)	
7/11/2017		<0.02				
7/12/2017			0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)
7/13/2017	0.194					
10/2/2017		<0.02				
10/4/2017	0.316					
1/9/2018	0.194	0.0014 (J)			0.0086 (J)	
1/10/2018				0.0077 (J)		0.0056 (J)
1/11/2018			0.0327			
7/9/2018		<0.02				
7/10/2018				0.016	0.0098 (J)	0.0056 (J)
7/11/2018	0.15		0.02			
1/16/2019	0.16	<0.02	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)
3/25/2019	0.18	<0.02	0.004 (J)			
3/26/2019				0.0058 (J)	0.086	0.0051 (J)
10/7/2019		<0.02				
10/8/2019	0.11					
10/9/2019			<0.01	0.033 (J)	0.018 (J)	<0.01
4/6/2020	0.12	<0.02				
4/7/2020			0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)
9/28/2020	0.1	<0.02				0.0042 (J)
9/30/2020				0.0037 (J)	0.018	
10/1/2020			0.0047 (J)			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			0.0054 (J)	0.0026 (J)	0.027	0.005 (J)
3/11/2021	0.14					
3/12/2021		<0.02				
9/21/2021	0.096	<0.02	0.0027 (J)	0.0039 (J)	0.015	
9/23/2021						0.0042 (J)
1/31/2022	0.1	<0.02				
2/2/2022			0.0031 (J)		0.0099 (J)	
2/3/2022				0.0046 (J)		0.0028 (J)
8/30/2022	0.11	0.00372 (J)	0.00943 (J)	0.0138 (J)	0.0192 (J)	
9/1/2022						0.00748 (J)
1/31/2023	0.106	<0.02				
2/1/2023				0.0255	0.0201	
2/2/2023			0.021			0.00497 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/21/2000	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
1/20/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
3/14/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
7/16/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/1/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
4/25/2002	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/20/2002	0.0071	<0.01	<0.02	0.03	0.0099	0.0069
6/6/2003	0.0098	<0.01	0.0063	0.0065	0.019 (O)	0.082 (O)
12/12/2003	0.0074	<0.01	<0.02	0.0052	0.018 (O)	0.012
5/26/2004	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
12/7/2004	<0.01	<0.01	<0.02	0.0074	<0.01	<0.05
6/21/2005	<0.01	<0.01	<0.02	0.01	<0.01	<0.05
12/12/2005	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
4/4/2006				0.013		<0.05
6/27/2006	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
8/30/2006				0.0039		<0.05
12/4/2006	<0.01	<0.01	<0.02	0.016	<0.01	0.0031
2/15/2007				0.017		0.0025
6/23/2007	0.0036	<0.01	<0.02	0.0076	<0.01	0.0032
9/11/2007				0.012		<0.05
12/11/2007	<0.01	<0.01	<0.02	0.017	<0.01	<0.05
3/11/2008				0.012		<0.05
6/23/2008	<0.01	<0.01	<0.02			
6/24/2008				0.0069	<0.01	<0.05
11/3/2008				0.016		0.0032
12/4/2008	<0.01	<0.01	<0.02	0.013		
12/5/2008					<0.01	<0.05
3/25/2009				0.014		<0.05
7/8/2009	0.0026	<0.01	<0.02	0.014	<0.01	0.0036
9/14/2009				0.0072		0.0026
12/20/2009				0.02	<0.01	0.0031
12/21/2009	<0.01	<0.01	<0.02			
3/4/2010				0.023		<0.05
6/20/2010	<0.01	<0.01	<0.02	0.017	<0.01	
6/21/2010						0.0025
9/14/2010				0.018		0.0035
1/6/2011	0.003		0.0028			
1/7/2011		<0.01		0.019	<0.01	0.0036
4/15/2011				0.019		<0.05
7/7/2011	0.004	<0.01	<0.02	0.014	0.0036	0.003
9/25/2011				0.015		0.0037
1/17/2012	<0.01	<0.01	<0.02	0.021	<0.01	
1/18/2012						<0.05
4/4/2012				0.0191		<0.05
7/9/2012	0.005	<0.01	<0.02	0.026	0.0059	
7/10/2012						0.0026
10/9/2012				0.049		0.007
1/17/2013	0.005	<0.01	<0.02			
1/18/2013				0.036	<0.01	<0.05
4/5/2013				0.04		<0.05
7/16/2013	<0.01	<0.01	<0.02			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.062	<0.01	<0.05
10/11/2013				0.032		<0.05
1/13/2014	<0.01	<0.01	<0.02		<0.01	
1/14/2014				0.044		<0.05
4/3/2014				0.077 (O)		0.0032 (J)
7/8/2014	0.0024 (J)	0.0034 (J)	0.002 (J)			
7/9/2014				0.032	0.0012 (J)	0.0031 (J)
10/24/2014				0.045		0.0028 (J)
1/13/2015	0.0023 (J)	<0.01	0.0015 (J)		0.0013 (J)	
1/14/2015				0.031		0.0034 (J)
5/10/2015				0.013		
5/11/2015						0.0026 (J)
7/16/2015	0.002 (J)	0.0049 (J)	<0.02		<0.01	0.0028 (J)
7/17/2015				0.028		
10/6/2015				0.02		0.0016 (J)
1/17/2016				0.028	0.0013 (J)	0.0029 (J)
1/18/2016		0.0058	0.0011 (J)			
1/19/2016	0.0025 (J)					
4/26/2016				0.0181		0.00296 (J)
7/26/2016	0.0027 (J)		<0.02			
7/27/2016		0.0058 (J)		0.0189	<0.01	
7/28/2016						0.0026 (J)
10/25/2016				0.0206	<0.01	<0.05
1/4/2017	<0.01	<0.01				<0.05
1/5/2017			<0.02	0.0172	<0.01	
4/3/2017					0.002 (J)	
4/4/2017				0.0235		
4/5/2017		0.0039 (J)				0.0033 (J)
4/6/2017	0.0025 (J)		<0.02			
7/10/2017		0.0062 (J)				
7/11/2017	0.0027 (J)			0.0136	0.0022 (J)	
7/12/2017			0.0016 (J)			0.0037 (J)
10/2/2017				0.0175	0.0022 (J)	
10/3/2017						0.0036 (J)
1/9/2018				0.0103	0.0021 (J)	
1/10/2018			0.0019 (J)			0.0029 (J)
1/11/2018	0.0019 (J)	0.0025 (J)				
7/9/2018				0.0078 (J)		
7/10/2018					0.0025 (J)	0.0025 (J)
7/11/2018	0.0021 (J)	0.0059 (J)	0.0097 (J)			
1/16/2019			<0.02	0.0043 (J)		
1/17/2019	0.0021 (J)	<0.01			<0.01	0.0021 (J)
3/26/2019			0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)
3/27/2019	0.0023 (J)	0.0049 (J)				
10/8/2019	<0.01		<0.02	<0.01	<0.01	<0.05
10/9/2019		0.0021 (J)				
4/7/2020	<0.01	0.0024 (J)		0.0026 (J)	<0.01	<0.05
4/8/2020			<0.02			
9/28/2020			<0.02			
9/29/2020	0.0023 (J)	0.0046 (J)		<0.01		
9/30/2020					0.0028 (J)	0.0028 (J)
3/10/2021	0.0023 (J)	0.0055 (J)				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					0.0037 (J)	
3/15/2021			<0.02			
3/16/2021				<0.01		0.0034 (J)
9/21/2021	0.002 (J)	0.0051 (J)	<0.02			
9/22/2021				0.0052 (J)		0.0025 (J)
9/23/2021					0.0022 (J)	
2/1/2022						0.0021 (J)
2/2/2022				0.004 (J)		
2/3/2022	0.0031 (J)	0.0052 (J)	<0.02		0.0023 (J)	
8/30/2022		0.00949 (J)		0.00933 (J)		
8/31/2022	0.00481 (J)		<0.02		0.00476 (J)	
9/1/2022						0.0065 (J)
2/1/2023	0.00373 (J)	0.0056 (J)	<0.02			0.00361 (J)
2/2/2023				0.00594 (J)	0.00453 (J)	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.02
11/21/2000	<0.01	<0.02				<0.02
1/20/2001	<0.01	<0.02				<0.02
3/14/2001	<0.01	<0.02				<0.02
7/16/2001	<0.01	<0.02				<0.02
11/1/2001	<0.01	<0.02				<0.02
4/25/2002	<0.01	<0.02				<0.02
11/20/2002	<0.01	<0.02				0.014
6/6/2003	<0.01	<0.02				<0.02
12/12/2003	<0.01	<0.02				<0.02
5/26/2004	<0.01	<0.02				<0.02
12/7/2004	<0.01	<0.02				<0.02
6/21/2005	<0.01	<0.02				<0.02
12/12/2005	<0.01	<0.02				<0.02
6/27/2006	0.0025	<0.02				<0.02
12/4/2006	<0.01	<0.02				<0.02
6/23/2007	<0.01	<0.02				<0.02
12/11/2007	<0.01	<0.02				<0.02
6/23/2008						<0.02
6/24/2008	<0.01	<0.02				
12/4/2008		<0.02				<0.02
12/5/2008	<0.01					
7/8/2009	<0.01	<0.02				0.0029
12/20/2009		<0.02				
12/21/2009	<0.01					<0.02
6/20/2010		<0.02				<0.02
6/21/2010	<0.01		<0.01	<0.01	<0.02	
1/6/2011		<0.02				
1/7/2011	<0.01		0.0029	0.0031	<0.02	<0.02
7/7/2011			<0.01			
7/8/2011	0.0031		0.0046	0.0048	<0.02	<0.02
1/17/2012		<0.02				
1/18/2012	<0.01		<0.01	<0.01	<0.02	<0.02
7/9/2012		<0.02				
7/10/2012	<0.01		0.0081	<0.01	<0.02	<0.02
1/17/2013		<0.02				
1/18/2013	<0.01		0.0063	<0.01	<0.02	<0.02
7/17/2013	<0.01	<0.02	<0.01	<0.01	<0.02	<0.02
1/13/2014		<0.02				
1/14/2014	<0.01		<0.01	0.006	<0.02	<0.02
7/9/2014	0.0012 (J)	<0.02		0.0019 (J)		0.0016 (J)
7/10/2014			0.0026 (J)		0.0053	
1/12/2015			0.0031 (J)			
1/13/2015		<0.02				
1/14/2015	0.002 (J)			0.0037 (J)	0.0013 (J)	<0.02
7/16/2015		<0.02				
7/17/2015				0.0028 (J)		0.0029 (J)
7/18/2015	<0.01		0.003 (J)		0.0043 (J)	
1/17/2016		<0.02	0.0025 (J)	0.0039 (J)		
1/18/2016	0.0019 (J)				<0.02	<0.02
7/27/2016		<0.02				
7/28/2016			0.0024 (J)	0.0022 (J)		<0.02

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0031 (J)				0.0052 (J)	
10/25/2016			<0.01			
1/4/2017			<0.01	<0.01	<0.02	
1/5/2017	<0.01	<0.02				
1/6/2017						<0.02
4/4/2017		<0.02	0.0024 (J)	0.003 (J)		
4/5/2017	0.0029 (J)					
4/6/2017					<0.02	<0.02
7/11/2017			0.003 (J)		0.0016 (J)	
7/12/2017						0.0013 (J)
7/13/2017	0.0037 (J)	<0.02		0.0019 (J)		
10/2/2017			0.0028 (J)			
1/9/2018				0.0046 (J)		
1/10/2018		<0.02	0.0026 (J)			
1/11/2018	0.0026 (J)				0.0012 (J)	<0.02
7/9/2018			<0.01			
7/10/2018		<0.02		0.0031 (J)		
7/11/2018	0.0032 (J)				0.0025 (J)	<0.02
1/16/2019	<0.01					
1/17/2019				0.0022 (J)		
1/18/2019					<0.02	<0.02
1/21/2019		0.0024 (J)	0.0031 (J)			
3/25/2019			0.0024 (J)			
3/26/2019	0.0024 (J)			0.0041 (J)		
3/27/2019					0.002 (J)	<0.02
7/30/2019		<0.02				
10/8/2019				<0.01		
10/9/2019	<0.01	<0.02	<0.01		<0.02	<0.02
4/7/2020				<0.01	0.0014 (J)	
4/8/2020	<0.01	<0.02	<0.01			0.0015 (J)
9/29/2020		<0.02				
9/30/2020	<0.01		0.0029 (J)	0.0029 (J)	<0.02	
10/1/2020						<0.02
3/10/2021					<0.02	<0.02
3/11/2021	<0.01					
3/12/2021			0.0038 (J)			
3/15/2021		<0.02				
3/16/2021				0.003 (J)		
9/21/2021					<0.02	
9/22/2021	<0.01	<0.02	0.0033 (J)	<0.01		<0.02
2/1/2022	0.0022 (J)		0.0039 (J)	0.0036 (J)		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.00647 (J)	0.00715 (J)		
8/31/2022	0.00599 (J)				0.00396 (J)	
9/1/2022		0.0045 (J)				0.00514 (J)
2/1/2023	0.005 (J)		0.00526 (J)			<0.02
2/2/2023		<0.02		0.00537 (J)	<0.02	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	<0.02	<0.02	0.0024 (J)
9/22/2021	<0.02	<0.02	
9/23/2021			<0.02
2/1/2022		<0.02	
2/3/2022	<0.02		<0.02
8/31/2022	<0.02		<0.02
9/1/2022		0.00414 (J)	
2/1/2023	<0.02		
2/2/2023		<0.02	<0.02

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.05	<0.02	<0.02	0.026 (O)	<0.02 (O)	<0.02
11/21/2000	<0.05		<0.02	<0.02	0.024 (O)	<0.02
1/20/2001	<0.05	0.025	0.041	0.031 (O)	<0.02 (O)	<0.02
3/14/2001	<0.05	<0.02	<0.02	0.063 (O)	<0.02 (O)	<0.02
7/16/2001	<0.05	<0.02	0.059	0.08 (O)	<0.02 (O)	<0.02
11/1/2001	<0.05	<0.02	<0.02	0.16 (O)	<0.02 (O)	<0.02
4/25/2002	<0.05	<0.02	<0.02	<0.02	<0.02 (O)	<0.02
11/20/2002		0.016	0.061	0.14 (O)	0.028 (O)	<0.02
6/6/2003	0.69 (O)	0.032	0.041	0.51 (O)	0.032 (O)	0.011
12/12/2003	0.12	0.019	0.012	<0.02	<0.01 (O)	<0.02
5/26/2004	0.013	<0.02	0.016	0.036 (O)	<0.01 (O)	<0.02
12/7/2004	<0.05	<0.02	<0.02	0.069 (O)	0.012 (O)	<0.02
6/21/2005	<0.05	<0.02	<0.02	0.076 (O)	<0.01 (O)	<0.02
12/12/2005	0.014	0.01	0.017	<0.02	<0.01 (O)	<0.02
4/4/2006		<0.02				
6/27/2006	0.01	0.0043	0.11	0.01	0.0071	<0.02
8/30/2006		0.017				
12/4/2006	0.0065	0.0053	0.086	0.0035	0.0096	<0.02
2/15/2007		0.0045				
6/23/2007	0.0049	0.0043	0.076	0.0032	0.094 (O)	<0.02
9/11/2007		0.004				
12/11/2007	0.0043	0.0048	0.087	0.0079	0.042 (O)	<0.02
3/11/2008		0.0043				
6/23/2008	0.0025	0.0037				
6/24/2008			0.062	<0.02	0.098 (O)	<0.02
11/3/2008		0.0032				
12/4/2008	0.0025	0.0029				
12/5/2008			0.014	<0.02	0.047 (O)	<0.02
3/25/2009		0.0055				
7/7/2009	<0.05	0.0028	0.052	<0.02	0.024 (O)	<0.02
9/14/2009		0.0027				
12/20/2009	0.0031	0.0029				<0.02
12/21/2009			0.046	<0.02	0.049 (O)	
3/4/2010		0.0042				
6/20/2010	<0.05	0.0027		<0.02	0.045 (O)	<0.02
6/21/2010			0.045			
9/14/2010		<0.02				
1/6/2011				<0.02		<0.02
1/7/2011	<0.05	0.0032	0.024		0.0044	
4/15/2011		<0.02				
7/7/2011	0.0031	0.005		0.0027	0.003	0.0025
7/8/2011			0.023			
9/25/2011		0.0041				
1/17/2012	0.004	0.0043		0.0039		<0.02
1/18/2012			0.011		0.0048	
4/4/2012		<0.02				
7/9/2012	0.0096			<0.02		<0.02
7/10/2012		0.0028	0.024		<0.01	
10/9/2012		0.0033				
1/17/2013				<0.02		<0.02
1/18/2013	0.051	0.0038	0.011		0.0028	
4/5/2013		0.0026				

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0032		<0.02
7/17/2013	0.042	<0.02	0.0029		<0.01	
10/11/2013		0.0046				
1/13/2014	0.0025			0.0025		0.0025
1/14/2014		0.0025	0.0025		0.0025	
4/3/2014		0.0029				
7/9/2014	0.064	0.002 (J)	0.0051	0.00076 (J)	0.00093 (J)	<0.02
10/24/2014		0.0031				
1/12/2015			0.0023 (J)			
1/13/2015	0.066			0.0036		0.0025
1/14/2015		0.003			0.0023 (J)	
5/10/2015		0.0028				
7/16/2015	0.036		0.0021 (J)	<0.02		<0.02
7/17/2015		0.0018 (J)			<0.01	
10/6/2015		0.0018 (J)				
1/17/2016						<0.02
1/18/2016	0.035	0.0028	0.0092	<0.02	0.0029	
4/26/2016		<0.02				
7/27/2016	0.0529			0.0015 (J)		<0.02
7/28/2016		0.0018 (J)			<0.01	
7/29/2016			0.003 (J)			
10/24/2016		0.0024 (J)				
10/25/2016	0.0035 (J)					
1/3/2017		0.0035 (J)		<0.02		
1/4/2017						<0.02
1/5/2017					<0.01	
1/6/2017	0.0235		0.0104			
4/3/2017		0.0041 (J)				
4/4/2017			0.0132			<0.02
4/6/2017	0.0829			0.0023 (J)	0.0032 (J)	
7/11/2017		0.0029 (J)				
7/12/2017			0.0046 (J)	<0.02	0.002 (J)	<0.02
7/13/2017	0.0853					
10/2/2017		0.0026 (J)				
10/4/2017	0.0263					
1/9/2018	0.0665	0.0035 (J)			0.0036 (J)	
1/10/2018				0.0022 (J)		0.0014 (J)
1/11/2018			0.0095 (J)			
7/9/2018		0.0022 (J)				
7/10/2018				<0.02	0.0055 (J)	0.0021 (J)
7/11/2018	0.02 (J)		0.0028 (J)			
1/16/2019	0.014 (J)	0.0037 (J)	0.0052 (J)	<0.02	<0.01	<0.02
3/25/2019	<0.05 (O)	<0.02	0.0078 (J)			
3/26/2019				<0.02	<0.01	<0.02
10/7/2019		0.0077 (J)				
10/8/2019	0.095					
10/9/2019			0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)
4/6/2020	<0.05	<0.02				
4/7/2020			<0.02	<0.02	<0.01	<0.02
9/28/2020	0.16	0.0092 (J)				0.0092 (J)
9/30/2020				<0.02	<0.01	
10/1/2020			0.0064 (J)			

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			<0.02	<0.02	<0.01	<0.02
3/11/2021	0.054					
3/12/2021		0.0028 (J)				
9/21/2021	<0.05	<0.02	<0.02	<0.02	<0.01	
9/23/2021						<0.02
1/31/2022	<0.05	<0.02				
2/2/2022			<0.02		<0.01	
2/3/2022				<0.02		<0.02
8/30/2022	0.011 (J)	<0.02	<0.02	<0.02	0.0132 (J)	
9/1/2022						0.00578 (J)
1/31/2023	0.00457 (J)	<0.02				
2/1/2023				<0.02	0.0121 (J)	
2/2/2023			<0.02			<0.02

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.02	0.38 (O)	<0.0025	<0.02	<0.02	<0.02
11/21/2000	<0.02	0.077 (O)	<0.0025	<0.02	<0.02	<0.02
1/20/2001	<0.02	0.23 (O)	<0.0025	<0.02	<0.02	<0.02
3/14/2001	<0.02	0.24 (O)	<0.0025	<0.02	<0.02	<0.02
7/16/2001	<0.02	0.053 (O)	<0.0025	<0.02	<0.02	<0.02
11/1/2001	<0.02	0.022 (O)	0.044 (O)	<0.02	<0.02	<0.02
4/25/2002	<0.02	1.2 (O)	<0.0025	<0.02	<0.02	<0.02
11/20/2002	<0.02	0.045 (O)	0.023	<0.02	<0.02	<0.02
6/6/2003	<0.02	0.042 (O)	<0.0025	<0.02	<0.02	0.035 (O)
12/12/2003	0.013	<0.01	<0.0025	<0.02	<0.02	<0.02
5/26/2004	<0.02	<0.01	0.035	<0.02	<0.02	<0.02
12/7/2004	0.028 (O)	<0.01	0.018	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.01	0.014	<0.02	<0.02	<0.02
12/12/2005	<0.02	<0.01	0.023	0.011	0.064 (O)	<0.02
4/4/2006				<0.02		<0.02
6/27/2006	0.0028	0.012 (O)	0.023	0.0045	0.011	0.077 (O)
8/30/2006				<0.02		0.0027
12/4/2006	0.0028	0.0067	0.046 (O)	<0.02	0.0033	<0.02
2/15/2007				<0.02		0.0032
6/23/2007	0.0063	0.025 (O)	0.036	<0.02	0.0029	0.0058
9/11/2007				<0.02		0.0033
12/11/2007	<0.02	0.0038	0.011	<0.02	<0.02	<0.02
3/11/2008				<0.02		<0.02
6/23/2008	<0.02	0.0051	0.0091			
6/24/2008				<0.02	<0.02	<0.02
11/3/2008				<0.02		0.0025
12/4/2008	<0.02	<0.01	0.0038	<0.02		
12/5/2008					<0.02	<0.02
3/25/2009				<0.02		0.0025
7/8/2009	<0.02	<0.01	<0.0025	<0.02	<0.02	<0.02
9/14/2009				<0.02		<0.02
12/20/2009				<0.02	<0.02	<0.02
12/21/2009	<0.02	0.013 (O)	0.0032			
3/4/2010				<0.02		<0.02
6/20/2010	<0.02	<0.01	<0.0025	<0.02	<0.02	
6/21/2010						<0.02
9/14/2010				<0.02		<0.02
1/6/2011	<0.02		0.004			
1/7/2011		0.004		<0.02	<0.02	<0.02
4/15/2011				<0.02		<0.02
7/7/2011	<0.02	0.0028	0.0037	<0.02	<0.02	<0.02
9/25/2011				<0.02		0.0028
1/17/2012	0.0043	0.0043	0.0031	<0.02	<0.02	
1/18/2012						0.0029
4/4/2012				<0.02		<0.02
7/9/2012	<0.02	<0.01	0.003	<0.02	<0.02	
7/10/2012						<0.02
10/9/2012				<0.02		0.0027
1/17/2013	0.0025	0.0033	<0.0025			
1/18/2013				<0.02	<0.02	<0.02
4/5/2013				<0.02		<0.02
7/16/2013	<0.02	0.0028	0.0029			

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.02	<0.02	<0.02
10/11/2013				<0.02		<0.02
1/13/2014	0.0025	0.0025	0.0025		0.0025	
1/14/2014				0.0025		0.0025
4/3/2014				0.0014 (J)		0.0015 (J)
7/8/2014	0.0011 (J)	0.002 (J)	0.0018 (J)			
7/9/2014				0.00086 (J)	<0.02	0.0012 (J)
10/24/2014				0.00083 (J)		0.0013 (J)
1/13/2015	0.0021 (J)	0.0079	0.0028		<0.02	
1/14/2015				<0.02		0.0017 (J)
5/10/2015				<0.02		
5/11/2015						0.0015 (J)
7/16/2015	<0.02	0.0026	0.0018 (J)		<0.02	<0.02
7/17/2015				<0.02		
10/6/2015				<0.02		<0.02
1/17/2016				<0.02	<0.02	<0.02
1/18/2016		0.0025	0.0017 (J)			
1/19/2016	0.0029					
4/26/2016				<0.02		<0.02
7/26/2016	<0.02		0.0028 (J)			
7/27/2016		0.0021 (J)		<0.02	<0.02	
7/28/2016						<0.02
10/25/2016				<0.02	<0.02	<0.02
1/4/2017	<0.02	0.0025 (J)				0.0025 (J)
1/5/2017			0.0021 (J)	<0.02	<0.02	
4/3/2017				<0.02	<0.02	
4/4/2017				<0.02		
4/5/2017		0.0026 (J)				0.0025 (J)
4/6/2017	0.004 (J)		0.0027 (J)			
7/10/2017		0.0023 (J)				
7/11/2017	<0.02			<0.02	<0.02	
7/12/2017			0.0043 (J)			0.002 (J)
10/2/2017				0.0026 (J)	<0.02	
10/3/2017						<0.02
1/9/2018				0.0018 (J)	<0.02	
1/10/2018			0.0021 (J)			0.0016 (J)
1/11/2018	0.0018 (J)	0.0031 (J)				
7/9/2018				<0.02		
7/10/2018					<0.02	0.0031 (J)
7/11/2018	<0.02	0.0036 (J)	0.0039 (J)			
1/16/2019			0.047	<0.02		
1/17/2019	<0.02	0.0032 (J)			<0.02	<0.02
3/26/2019			0.03	<0.02	<0.02	<0.02
3/27/2019	<0.02	0.0031 (J)				
10/8/2019	0.0061 (J)		0.053	0.0052 (J)	0.0051 (J)	0.01
10/9/2019		0.0057 (J)				
4/7/2020	<0.02	<0.01		<0.02	<0.02	<0.02
4/8/2020			0.023			
9/28/2020			0.016			
9/29/2020	0.0031 (J)	0.0074 (J)		<0.02		
9/30/2020					0.032	0.0051 (J)
3/10/2021	<0.02	<0.01				

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.02	
3/15/2021			0.039			
3/16/2021				<0.02		<0.02
9/21/2021	<0.02	<0.01	0.036			
9/22/2021				0.01		<0.02
9/23/2021					<0.02	
2/1/2022						<0.02
2/2/2022				<0.02		
2/3/2022	<0.02	<0.01	0.037		<0.02	
8/30/2022		0.0262		<0.02		
8/31/2022	<0.02		0.0266		0.00395 (J)	
9/1/2022						0.0119 (J)
2/1/2023	<0.02	0.00334 (J)	0.025			<0.02
2/2/2023				<0.02	<0.02	

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.02
11/21/2000	<0.01	0.021 (O)				<0.02
1/20/2001	<0.01	<0.02				<0.02
3/14/2001	<0.01	<0.02				<0.02
7/16/2001	<0.01	<0.02				<0.02
11/1/2001	<0.01	<0.02				<0.02
4/25/2002	<0.01	<0.02				<0.02
11/20/2002	0.014	<0.02				0.033 (O)
6/6/2003	0.012	<0.02				<0.02
12/12/2003	<0.01	<0.02				<0.02
5/26/2004	<0.01	<0.02				<0.02
12/7/2004	<0.01	<0.02				<0.02
6/21/2005	<0.01	<0.02				<0.02
12/12/2005	<0.01	0.012				0.032 (O)
6/27/2006	0.0046	<0.02				0.018 (O)
12/4/2006	0.0071	<0.02				0.0044
6/23/2007	0.005	<0.02				0.0041
12/11/2007	0.0033	<0.02				0.0039
6/23/2008						<0.02
6/24/2008	0.0037	<0.02				
12/4/2008		<0.02				0.0039
12/5/2008	0.0027					
7/8/2009	0.0048	<0.02				<0.02
12/20/2009		<0.02				
12/21/2009	0.0032					0.004
6/20/2010		<0.02				<0.02
6/21/2010	0.0028		<0.02	0.04 (O)	<0.02	
1/6/2011		<0.02				
1/7/2011	0.003		<0.02	<0.02	0.019	0.0032
7/7/2011			<0.02			
7/8/2011	0.0034		0.086 (JO)	0.0044	0.1 (O)	0.0025
1/17/2012		<0.02				
1/18/2012	0.0049		<0.02	<0.02	0.0051	0.0045
7/9/2012		<0.02				
7/10/2012	0.0039		<0.02	<0.02	0.01	<0.02
1/17/2013		<0.02				
1/18/2013	0.0043		0.0032	<0.02	0.0036	0.0029
7/17/2013	0.0035	<0.02	<0.02	<0.02	0.0025	<0.02
1/13/2014		0.0025				
1/14/2014	0.0025		0.0025	0.0025	0.0025	0.0025
7/9/2014	0.0033	0.00058 (J)		0.00084 (J)		0.0016 (J)
7/10/2014			<0.02		0.024	
1/12/2015			<0.02			
1/13/2015		0.0024 (J)				
1/14/2015	0.0067			0.0018 (J)	0.0016 (J)	0.0024 (J)
7/16/2015		<0.02				
7/17/2015				<0.02		0.0031
7/18/2015	<0.01		<0.02		0.014	
1/17/2016		<0.02	<0.02	<0.02		
1/18/2016	0.012				<0.02	0.0059
7/27/2016		0.0018 (J)				
7/28/2016			<0.02	<0.02		0.0019 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0086 (J)				0.0129	
10/25/2016			<0.02			
1/4/2017			<0.02	<0.02	0.006 (J)	
1/5/2017	0.016	<0.02				
1/6/2017						0.0026 (J)
4/4/2017		0.0015 (J)	<0.02	0.0015 (J)		
4/5/2017	0.0175					
4/6/2017					0.0031 (J)	0.0047 (J)
7/11/2017			<0.02		0.0029 (J)	
7/12/2017						0.003 (J)
7/13/2017	0.0126	0.0014 (J)		0.002 (J)		
10/2/2017			<0.02			
1/9/2018				0.0016 (J)		
1/10/2018		<0.02	0.0034 (J)			
1/11/2018	0.012				0.0106	0.0046 (J)
7/9/2018			<0.02			
7/10/2018		<0.02		<0.02		
7/11/2018	0.011				0.0057 (J)	0.0033 (J)
1/16/2019	0.0094 (J)					
1/17/2019				<0.02		
1/18/2019					0.0024 (J)	0.0025 (J)
1/21/2019		<0.02	<0.02			
3/25/2019			<0.02			
3/26/2019	0.0057 (J)			<0.02		
3/27/2019					<0.02	0.0026 (J)
7/30/2019		0.0067 (J)				
10/8/2019				0.0071 (J)		
10/9/2019	0.011	0.005 (J)	0.0049 (J)		0.0079 (J)	0.0054 (J)
4/7/2020				<0.02	<0.02	
4/8/2020	<0.01	<0.02	<0.02			<0.02
9/29/2020		0.056				
9/30/2020	0.0043 (J)		0.031	0.0096 (J)	<0.02	
10/1/2020						0.025
3/10/2021					<0.02	<0.02
3/11/2021	0.0056 (J)					
3/12/2021			<0.02			
3/15/2021		<0.02				
3/16/2021				<0.02		
9/21/2021					<0.02	
9/22/2021	<0.01	<0.02	<0.02	<0.02		<0.02
2/1/2022	0.011		<0.02	<0.02		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.0171 (J)	0.00814 (J)		
8/31/2022	0.0068 (J)				<0.02	
9/1/2022		0.0125 (J)				0.0163 (J)
2/1/2023	0.00583 (J)		<0.02			<0.02
2/2/2023		<0.02		<0.02	<0.02	

Time Series

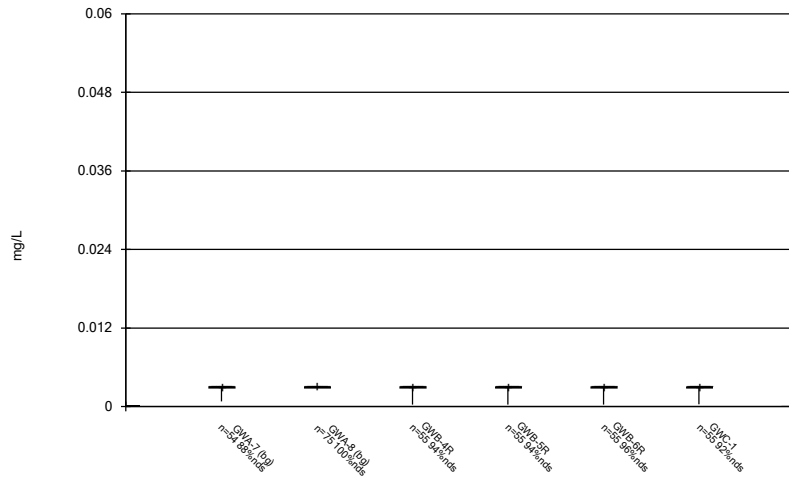
Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:07 AM View: Desc.

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
3/11/2021	0.0067 (J)	0.0025 (J)	0.0054 (J)
9/22/2021	<0.01	<0.02	
9/23/2021			<0.02
2/1/2022		<0.02	
2/3/2022	<0.01		0.051
8/31/2022	0.0106 (J)		0.0161 (J)
9/1/2022		0.0102 (J)	
2/1/2023	0.0121 (J)		
2/2/2023		<0.02	<0.02

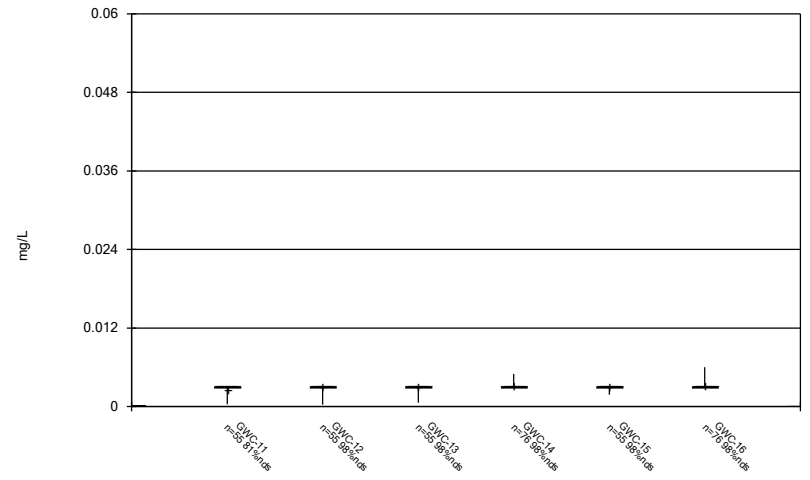
FIGURE B.

Box & Whiskers Plot



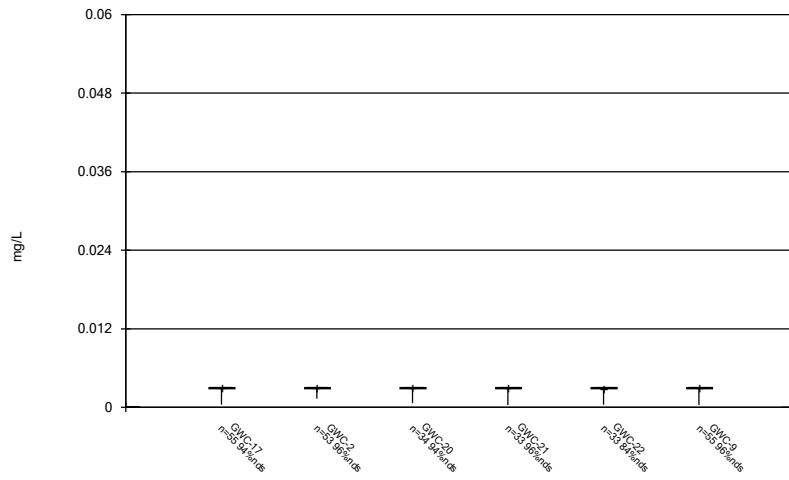
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



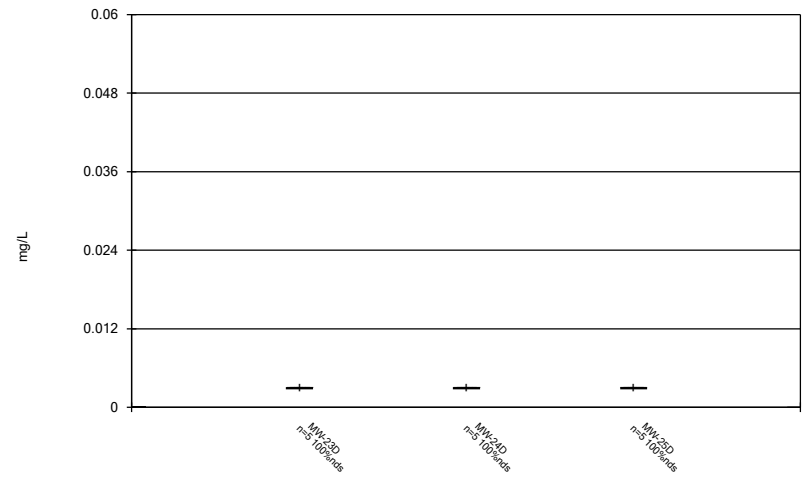
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



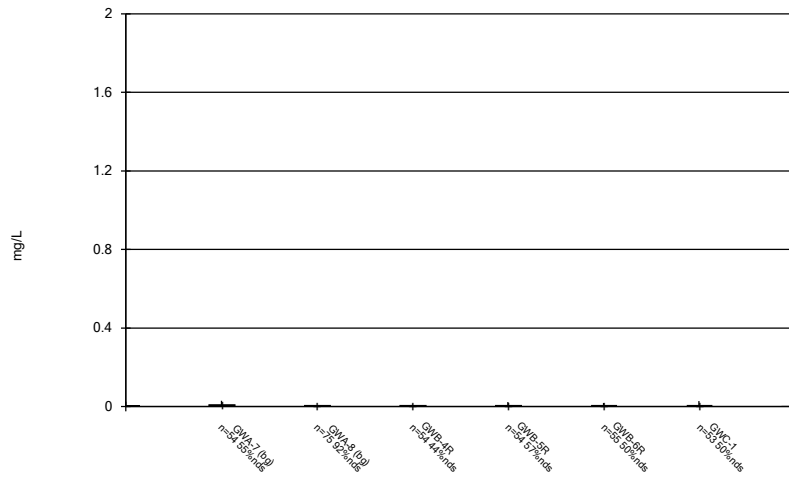
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



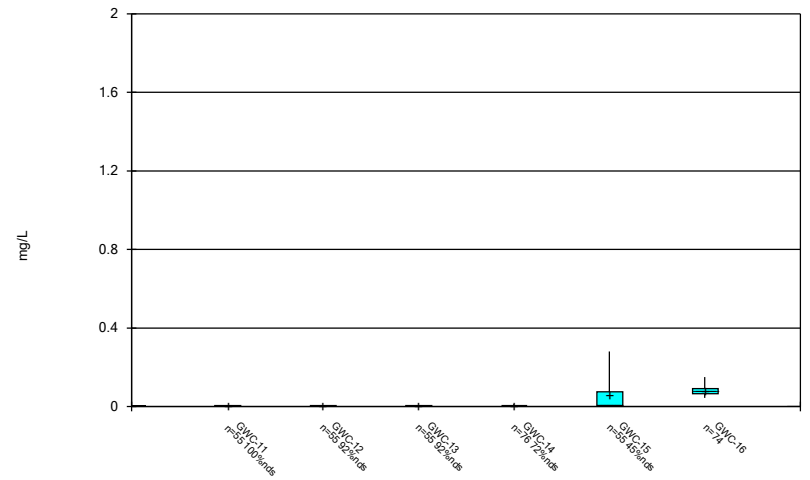
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



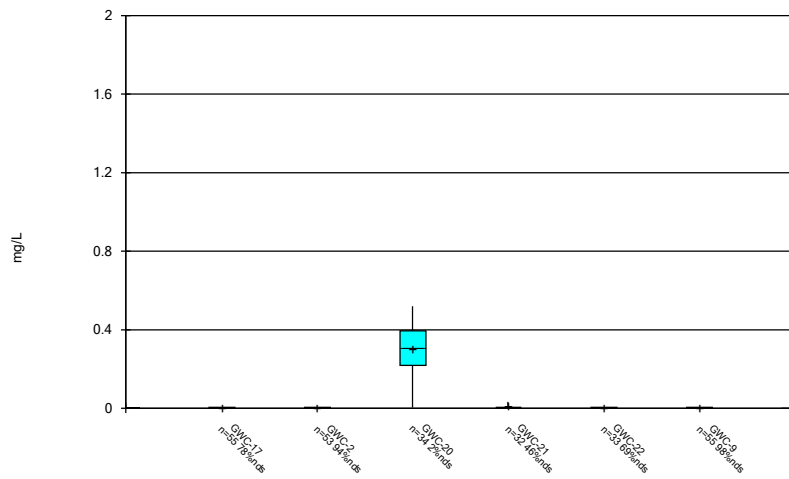
Constituent: Arsenic Analysis Run 4/20/2023 11:08 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



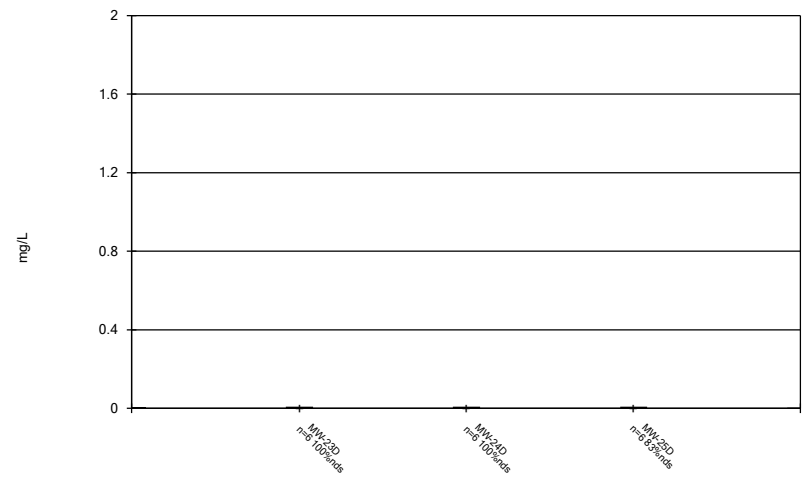
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



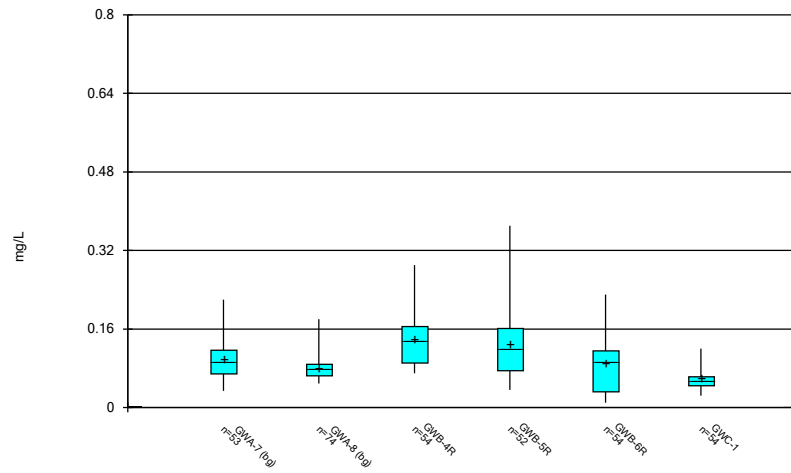
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



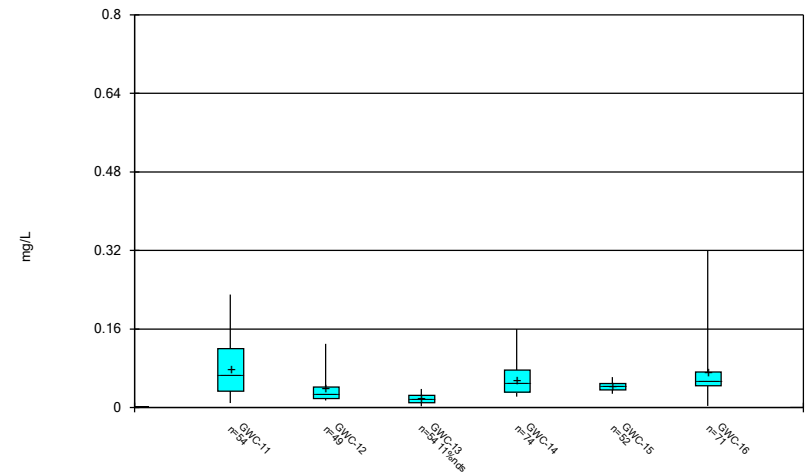
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



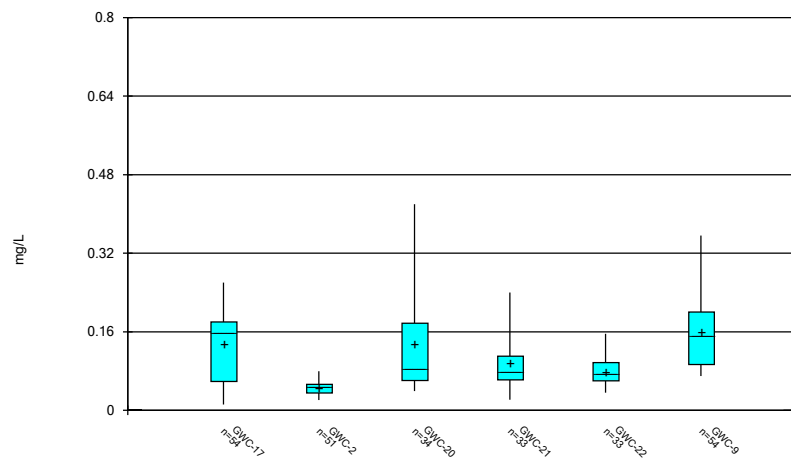
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



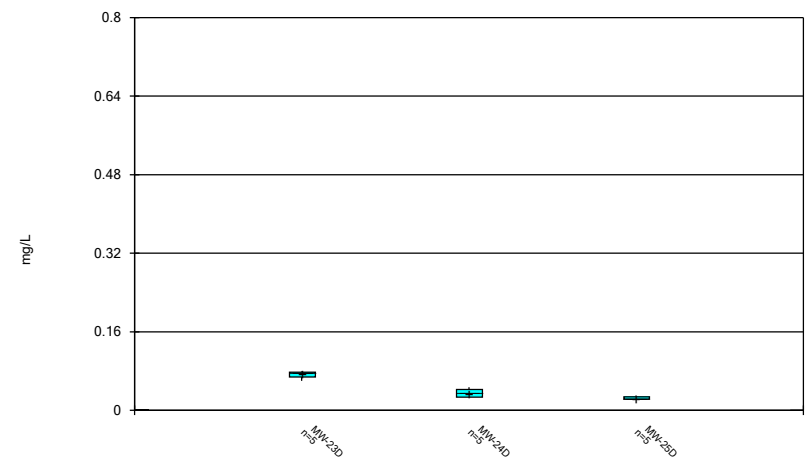
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



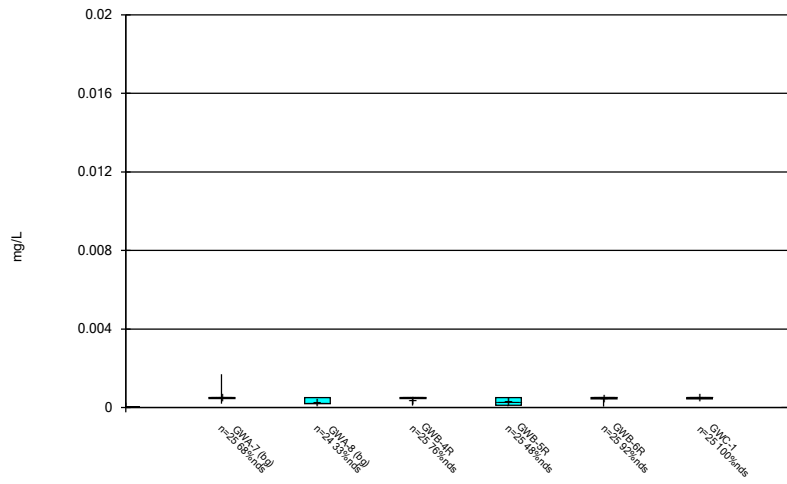
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



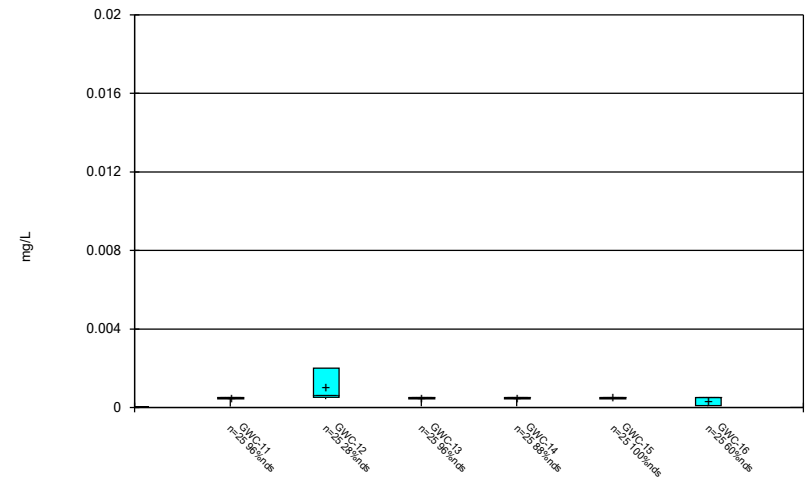
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



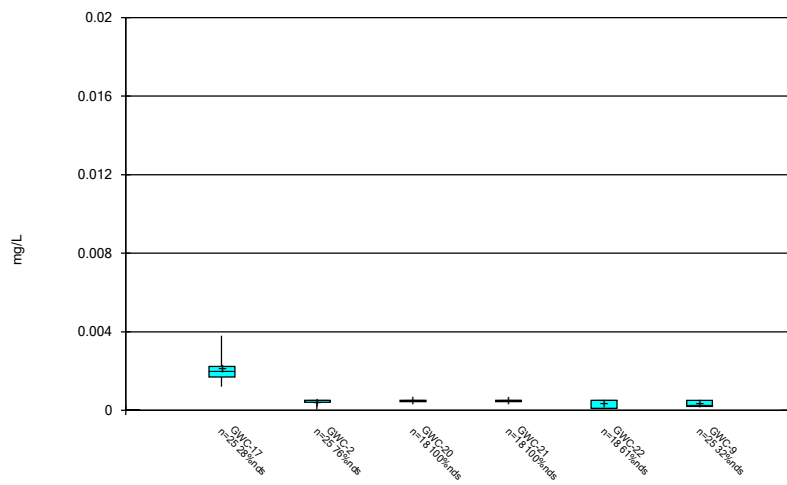
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



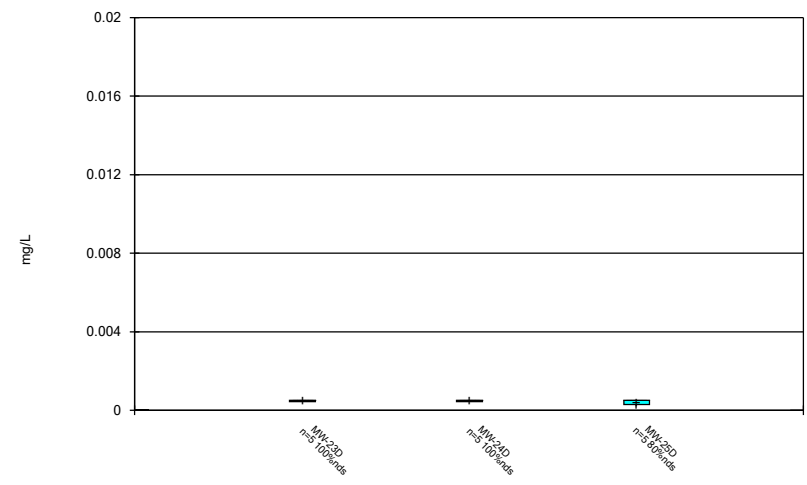
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



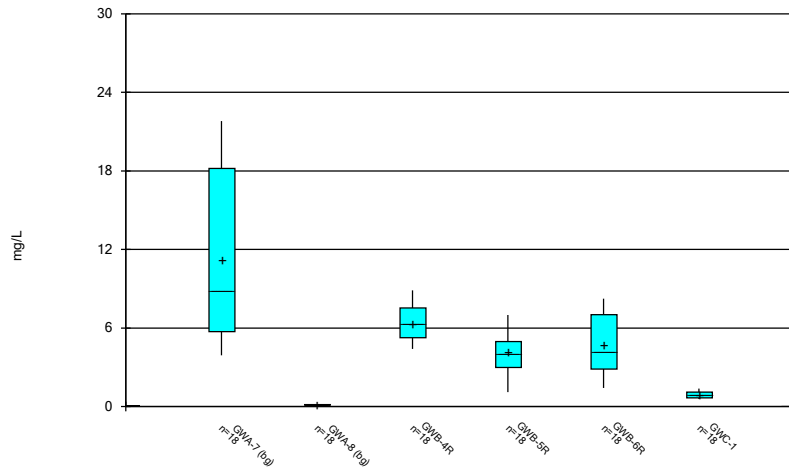
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



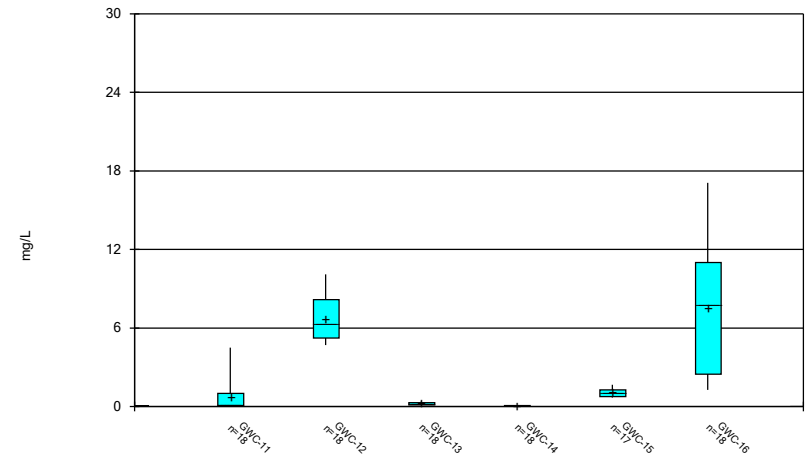
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



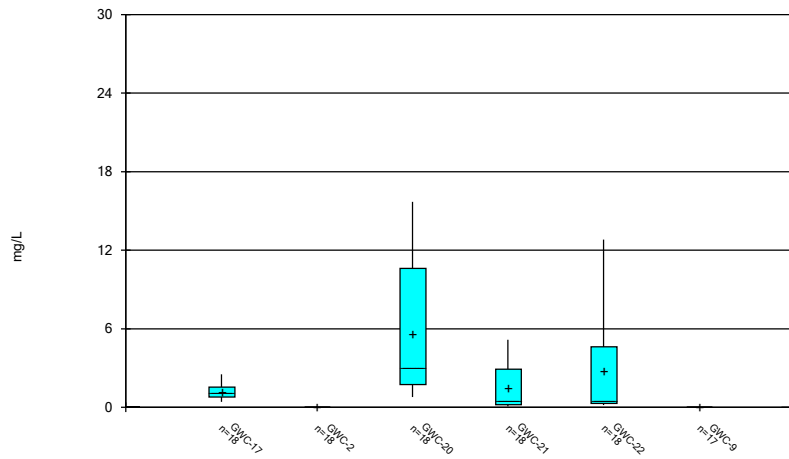
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



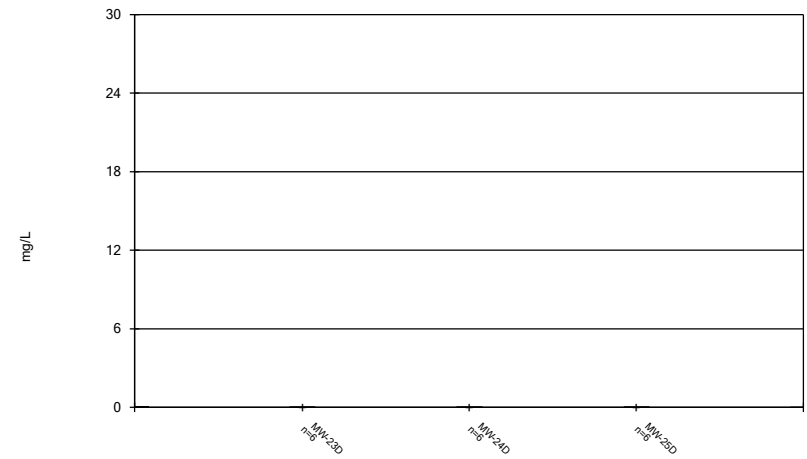
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



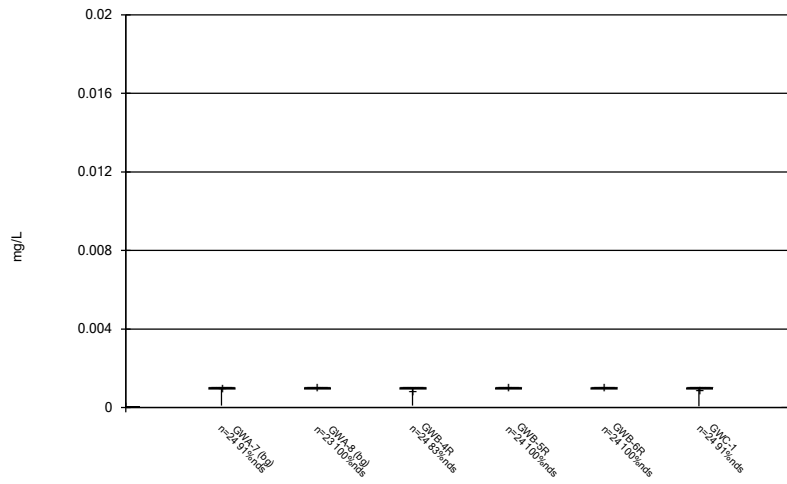
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



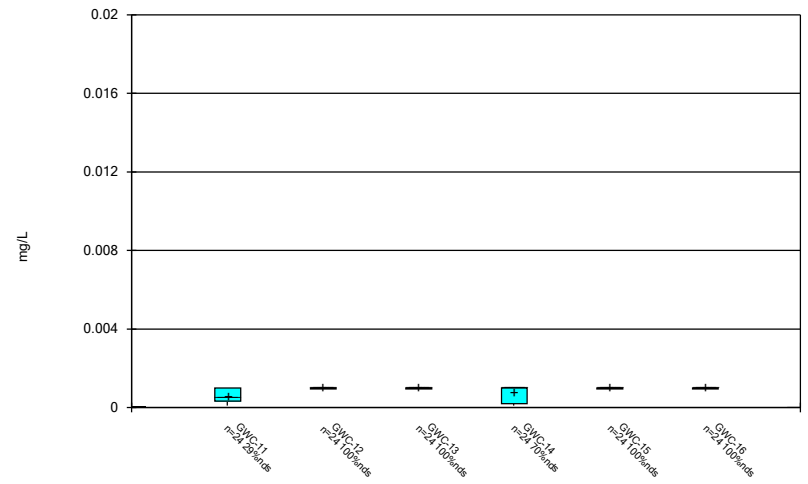
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



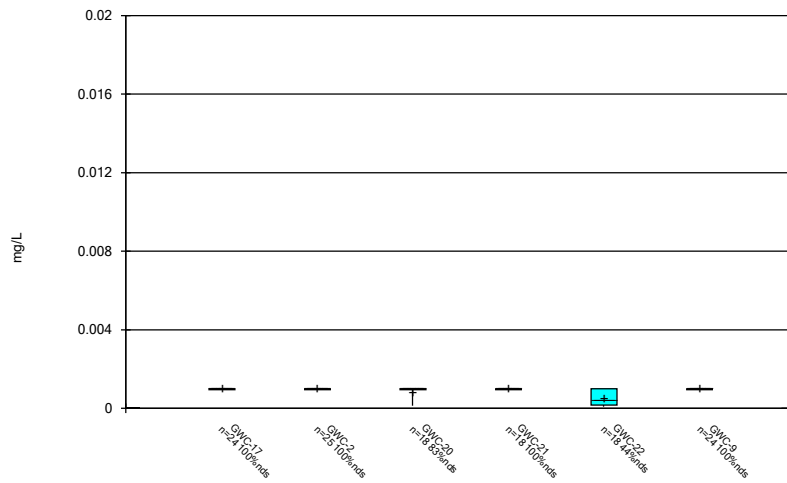
Constituent: Cadmium Analysis Run 4/20/2023 11:08 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



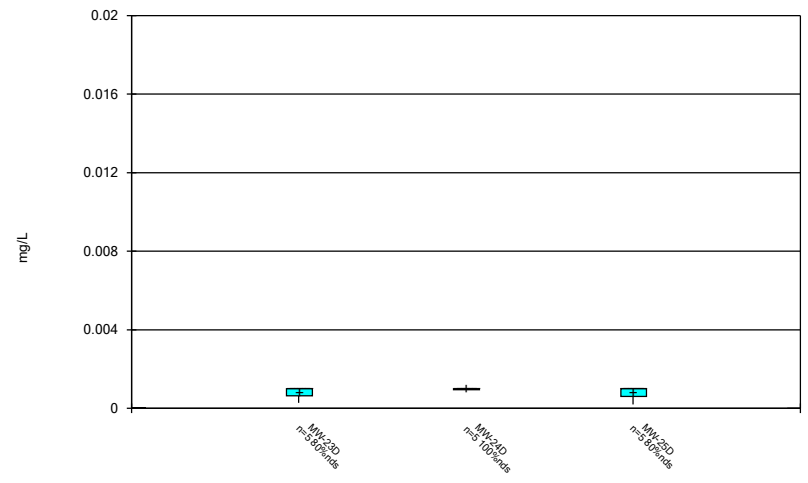
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



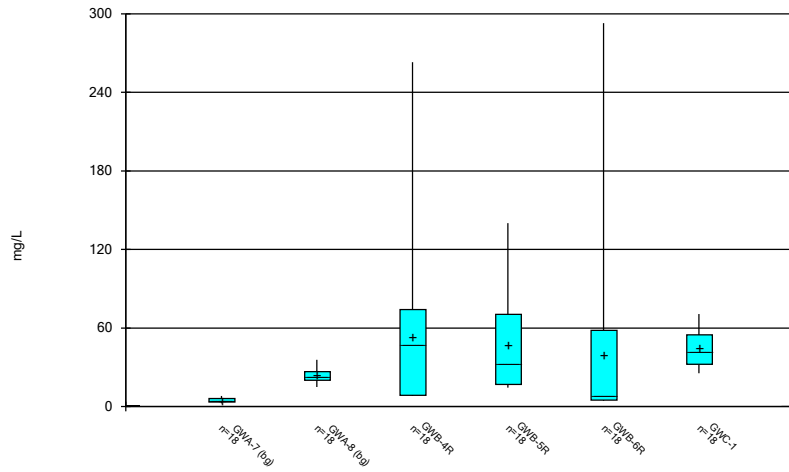
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



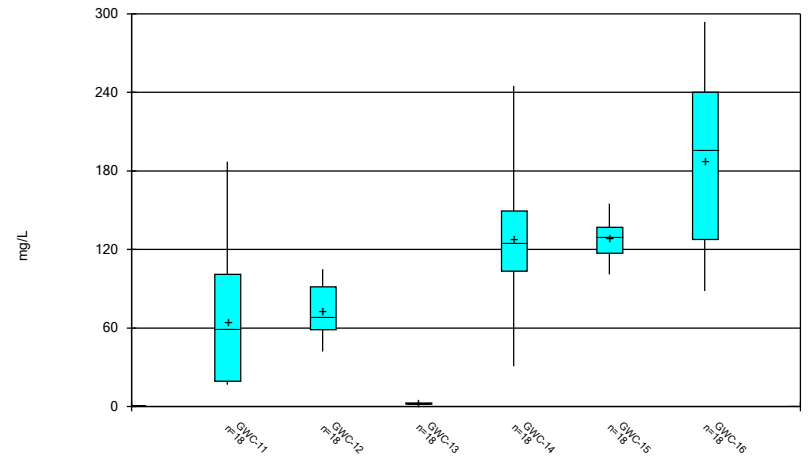
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



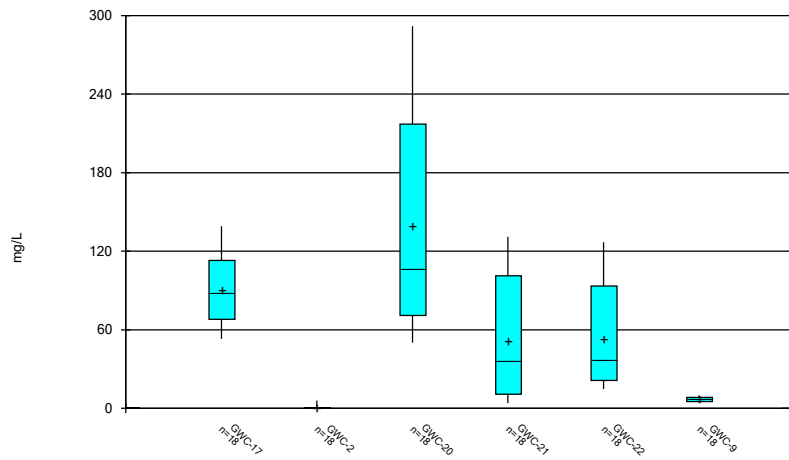
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



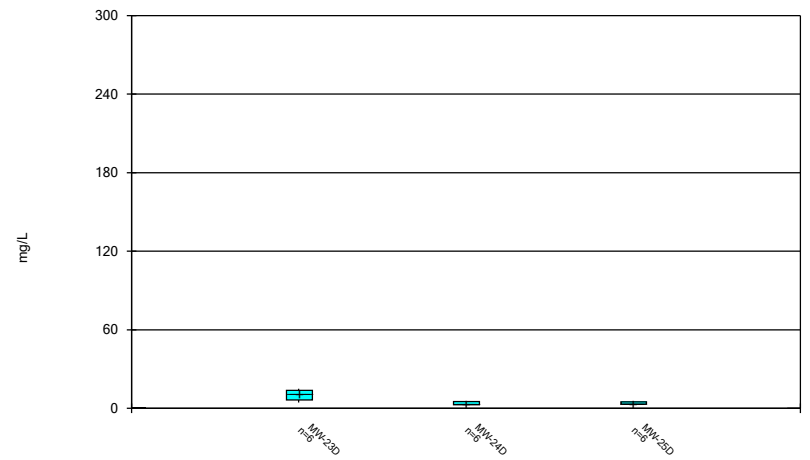
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



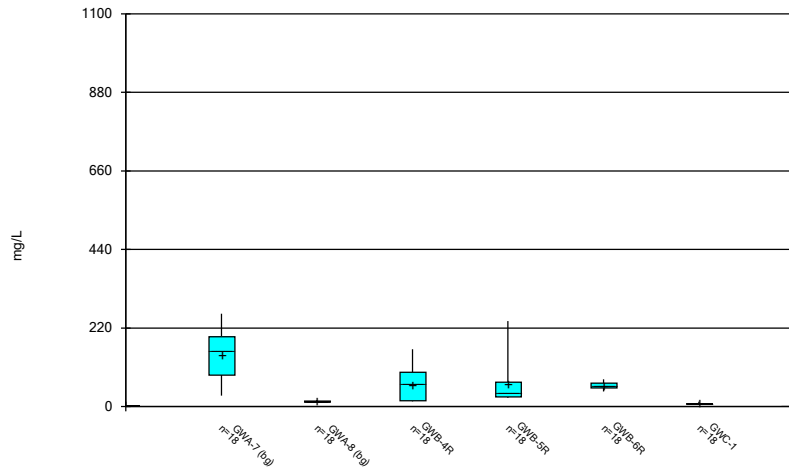
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



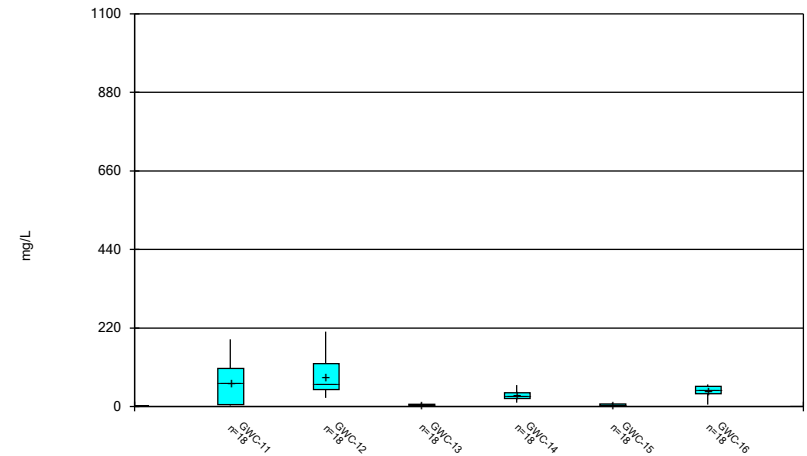
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



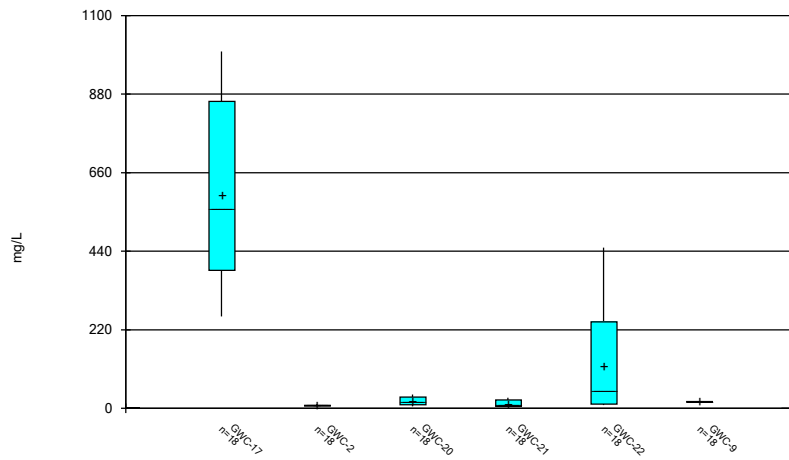
Constituent: Chloride Analysis Run 4/20/2023 11:08 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



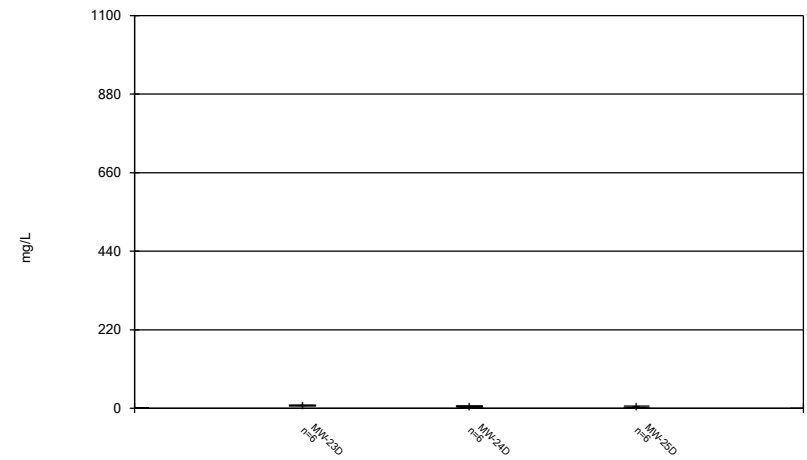
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Box & Whiskers Plot



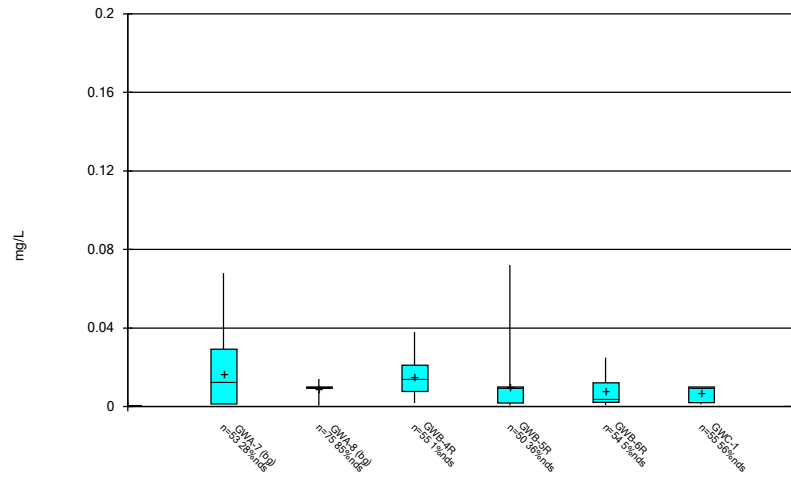
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Box & Whiskers Plot



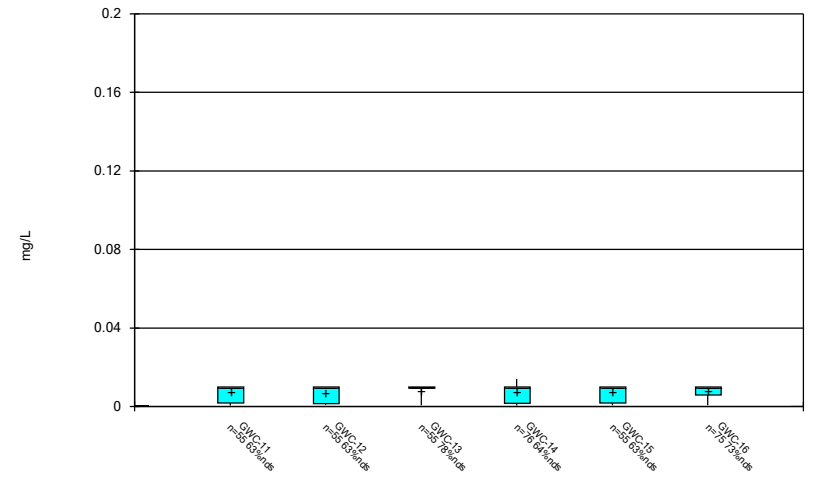
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Box & Whiskers Plot



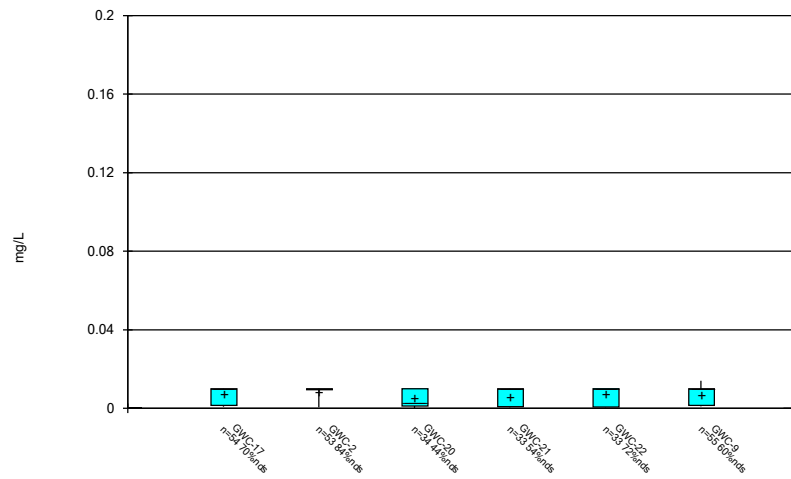
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Box & Whiskers Plot



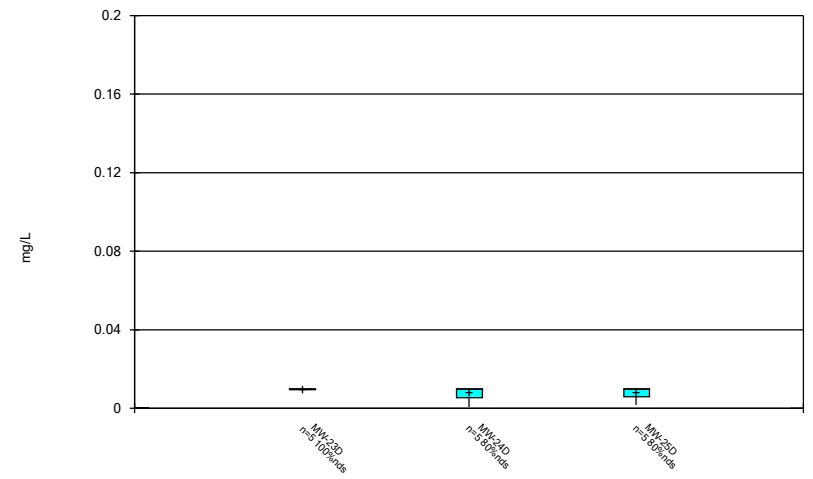
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Box & Whiskers Plot



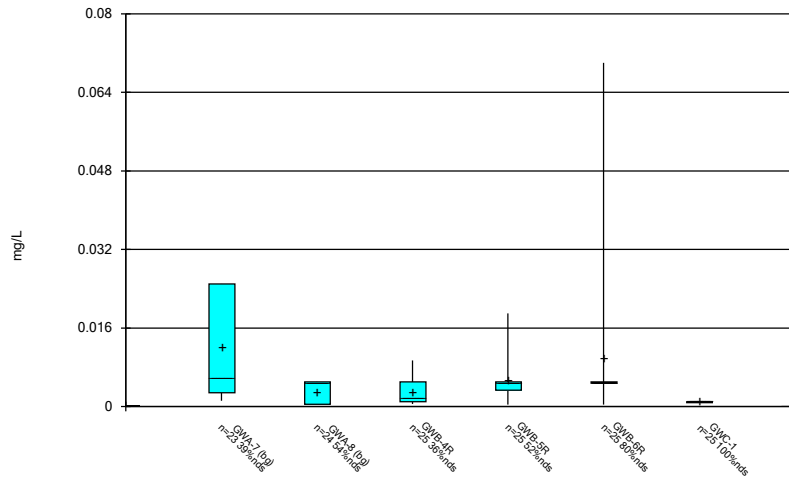
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Box & Whiskers Plot



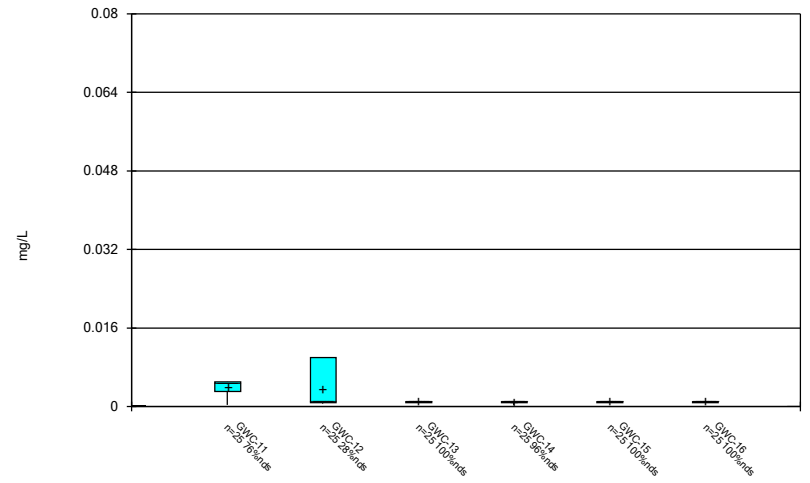
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Box & Whiskers Plot



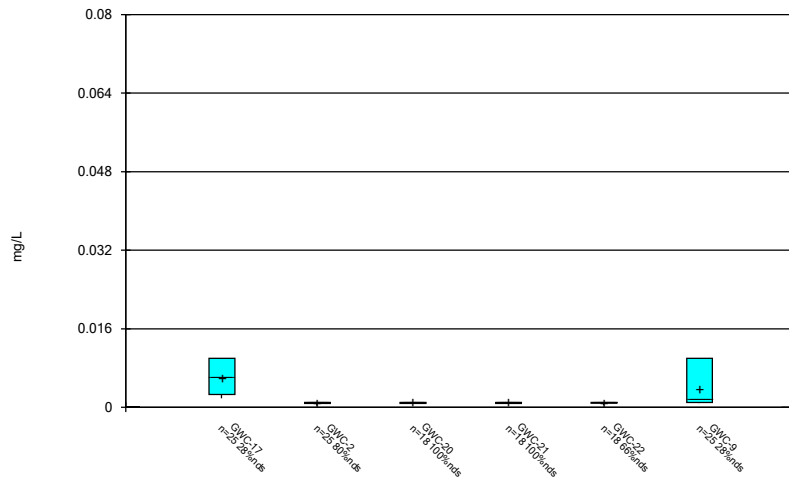
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Box & Whiskers Plot



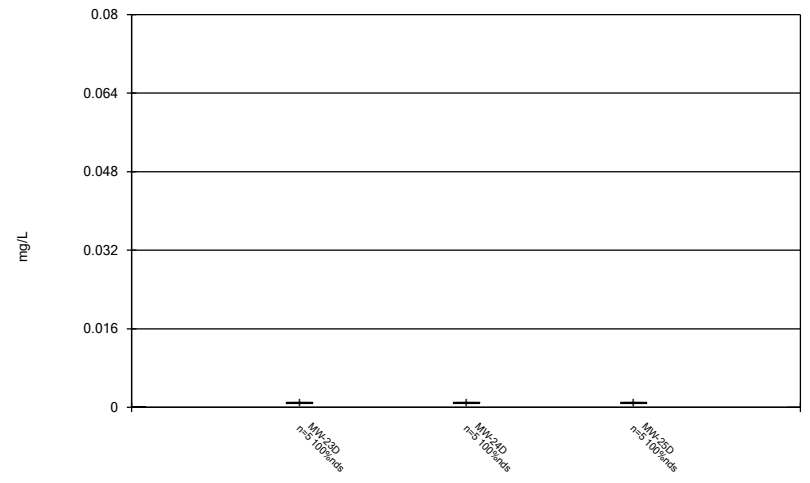
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Box & Whiskers Plot



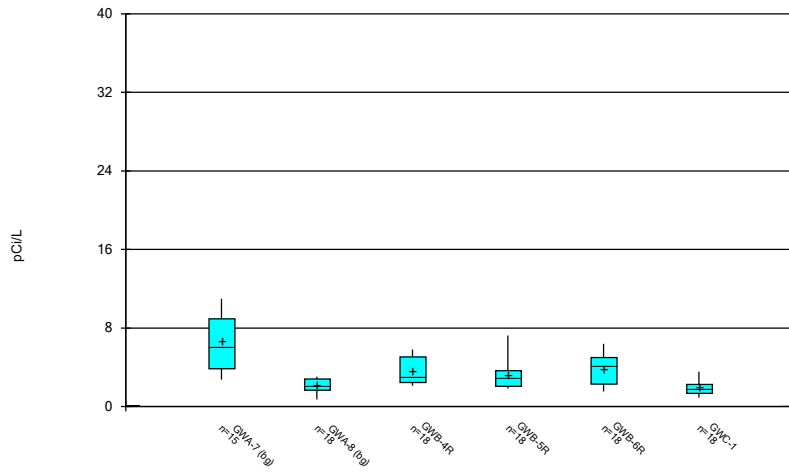
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Box & Whiskers Plot



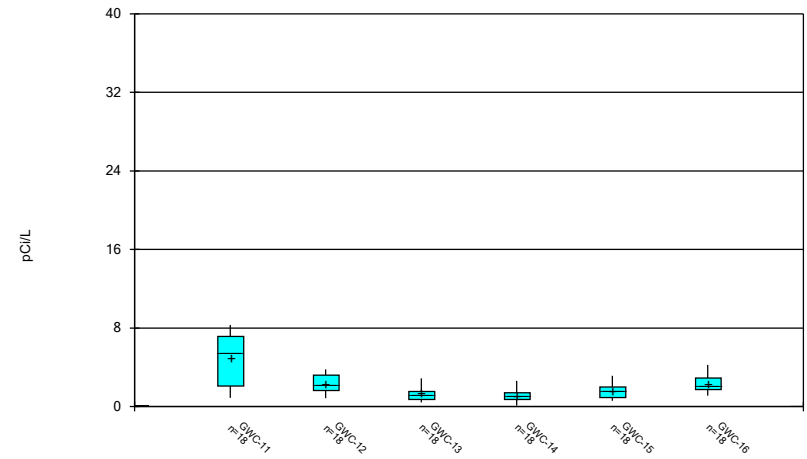
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Box & Whiskers Plot



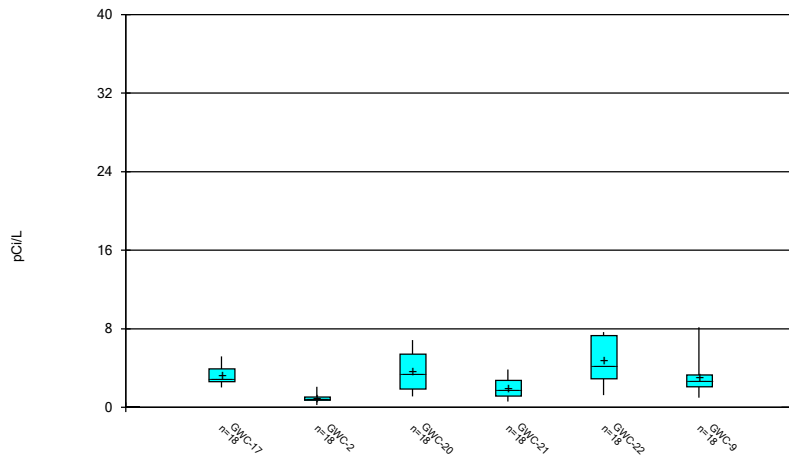
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Box & Whiskers Plot



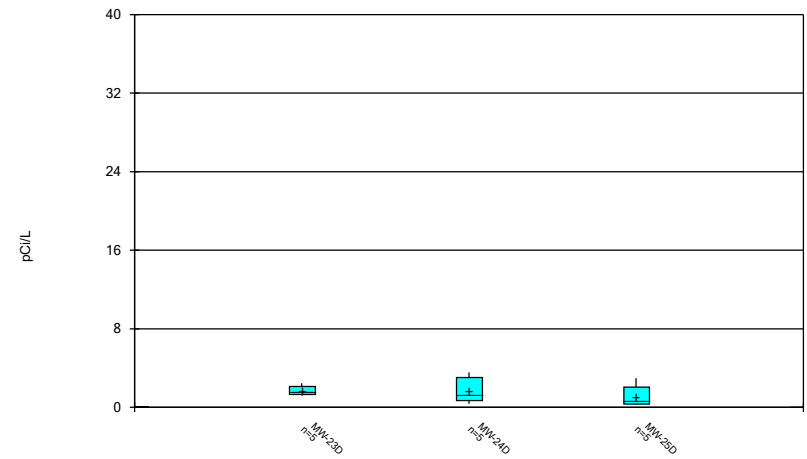
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Box & Whiskers Plot



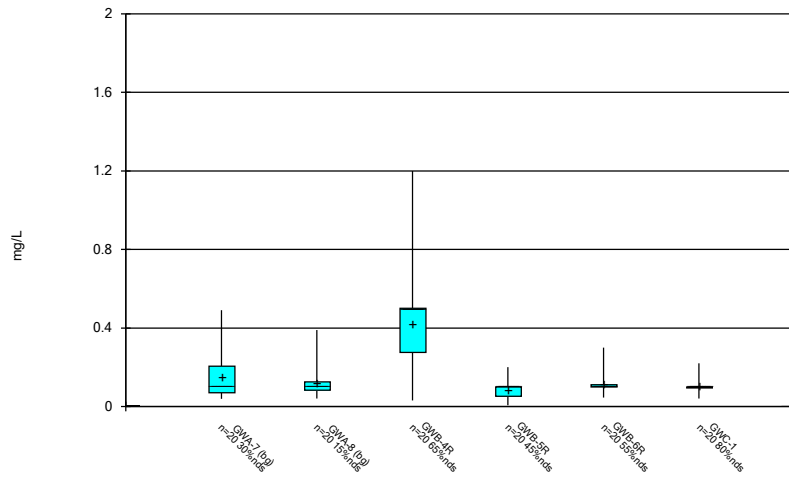
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Box & Whiskers Plot



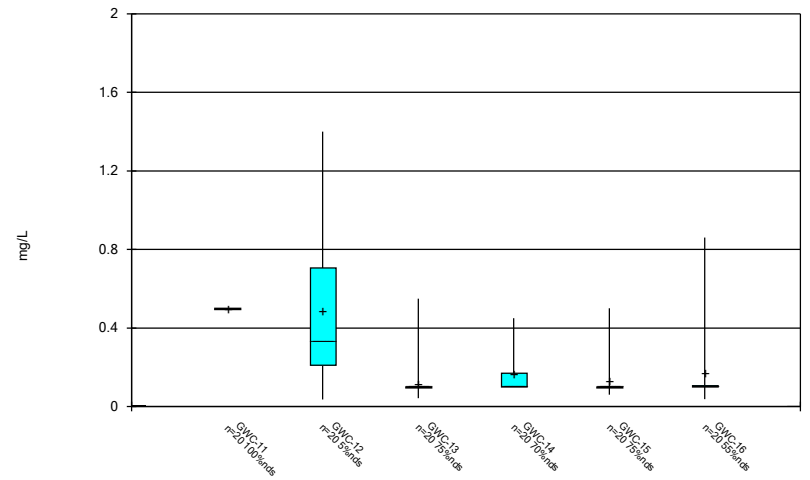
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Box & Whiskers Plot



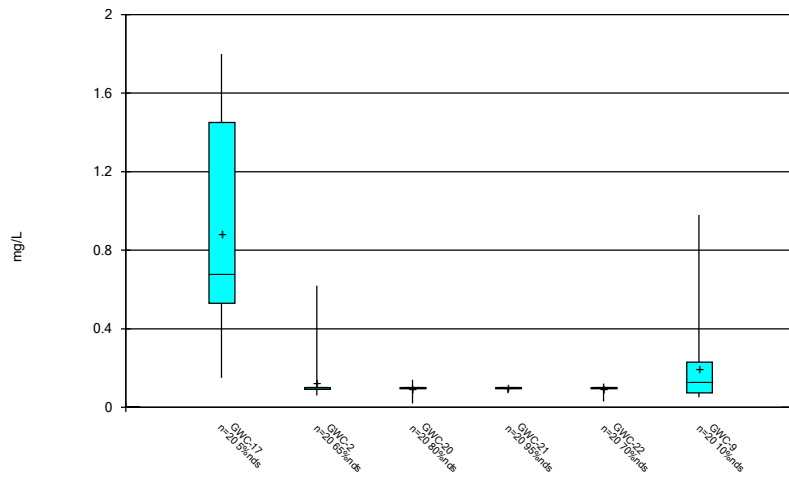
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Box & Whiskers Plot



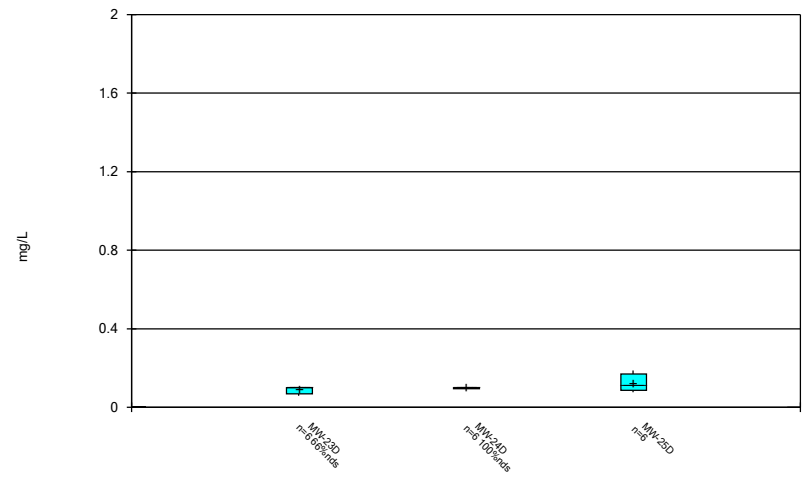
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Box & Whiskers Plot



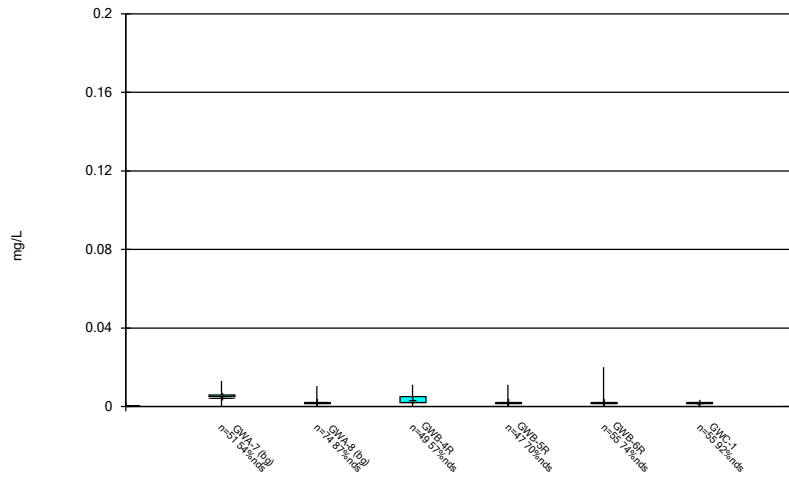
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Box & Whiskers Plot



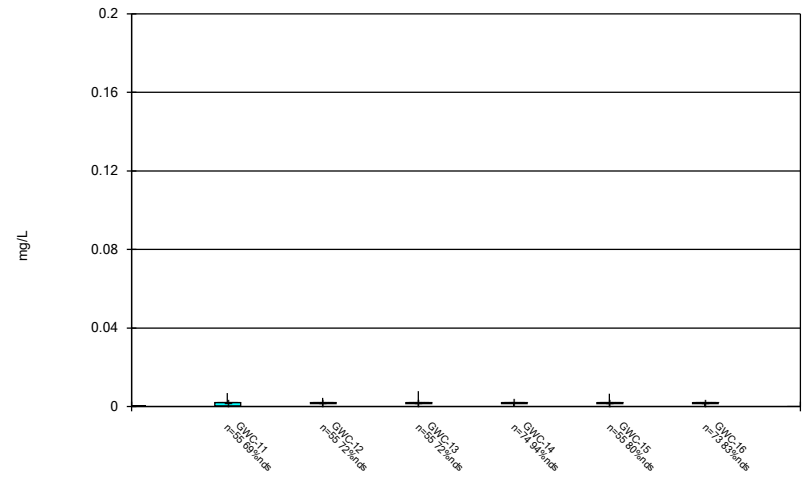
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Box & Whiskers Plot



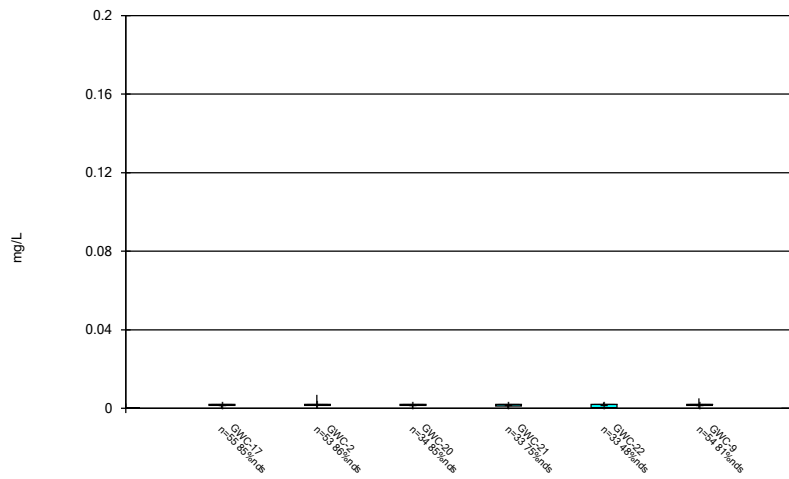
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Box & Whiskers Plot



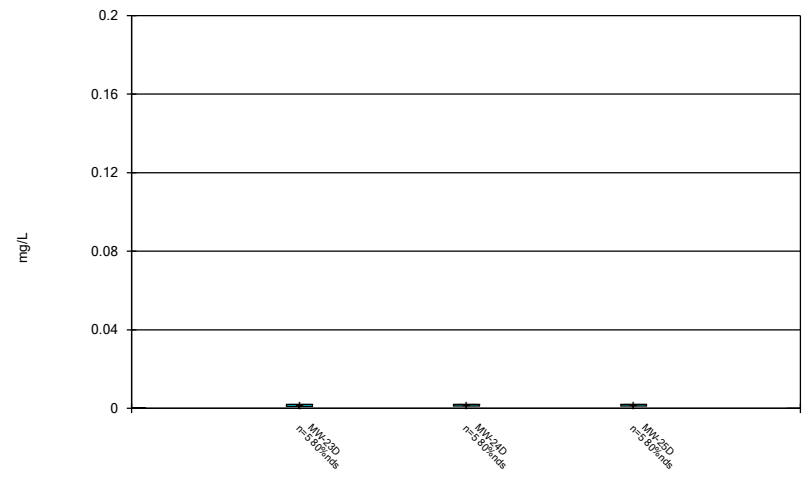
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Box & Whiskers Plot



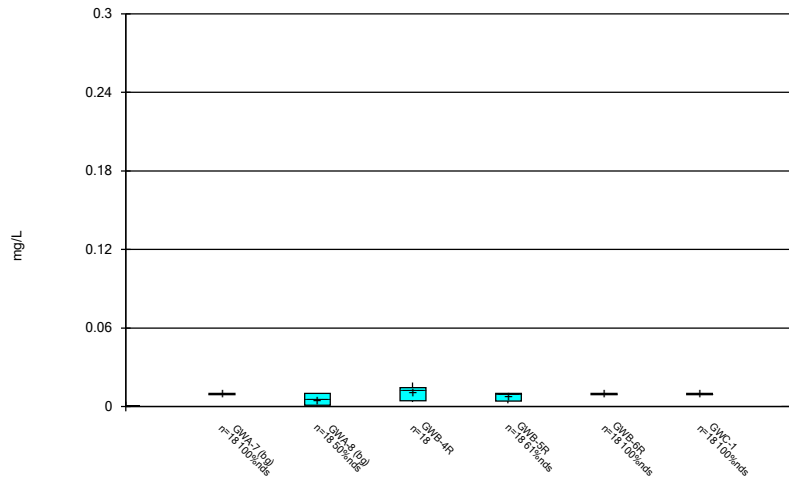
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Box & Whiskers Plot



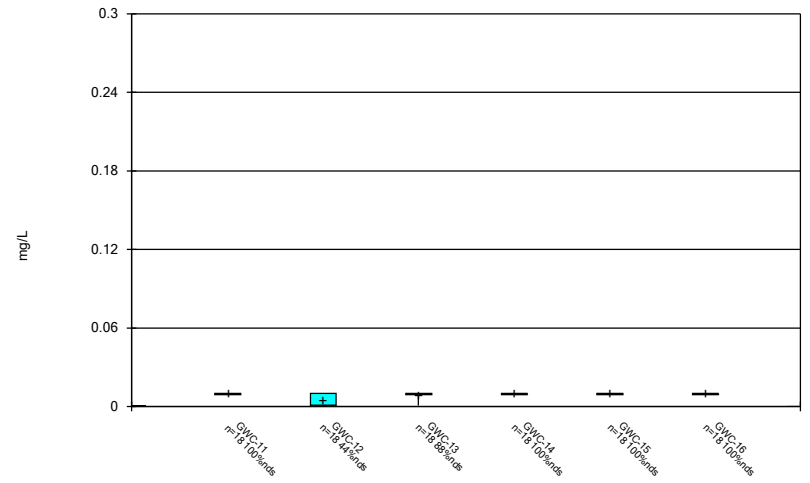
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Box & Whiskers Plot



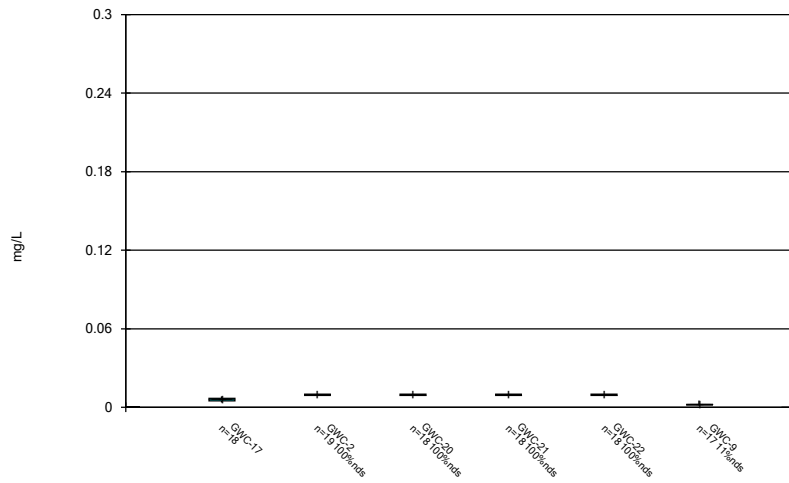
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Box & Whiskers Plot



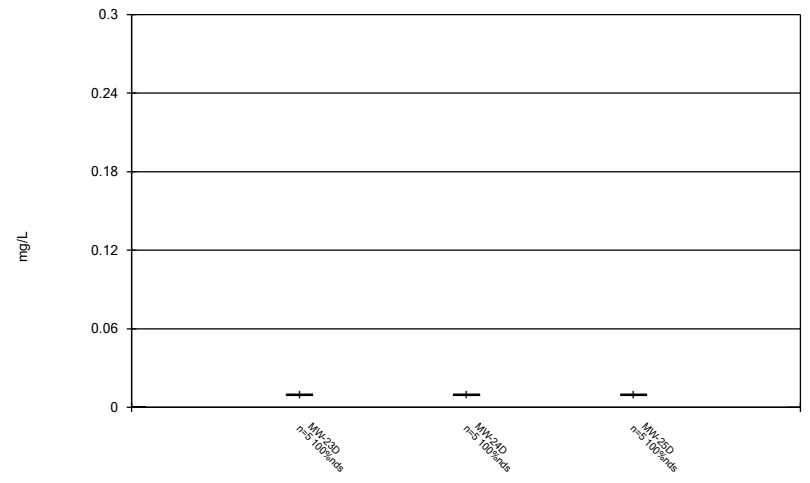
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Box & Whiskers Plot



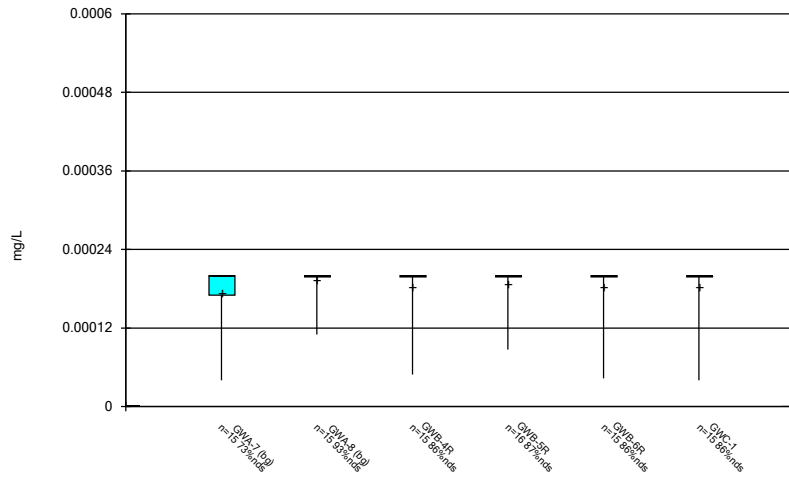
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Box & Whiskers Plot



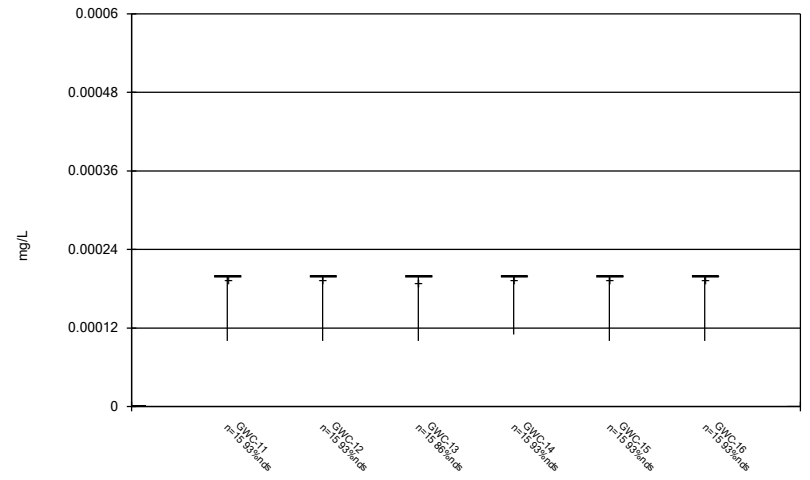
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Box & Whiskers Plot



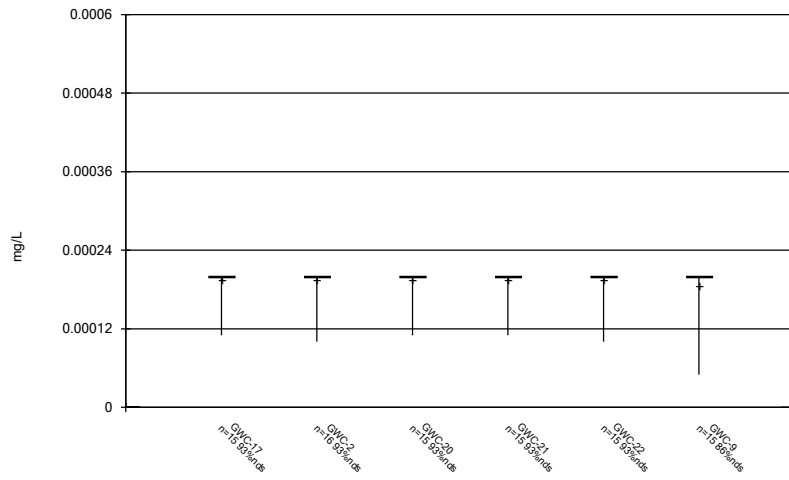
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Box & Whiskers Plot



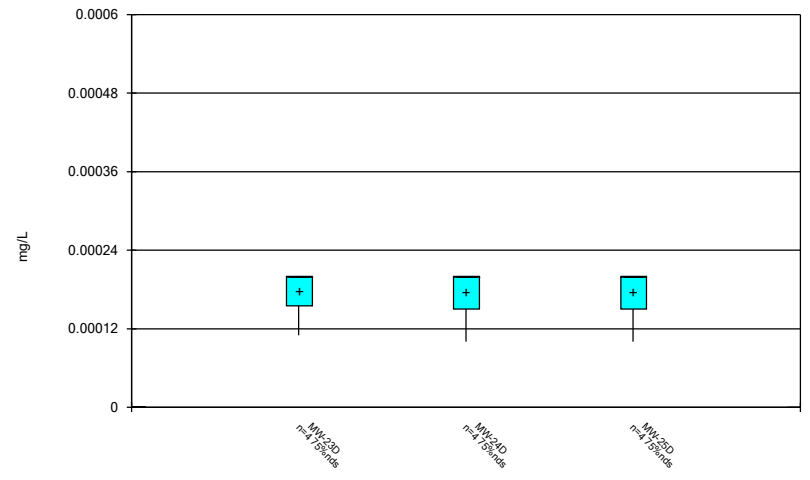
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Box & Whiskers Plot



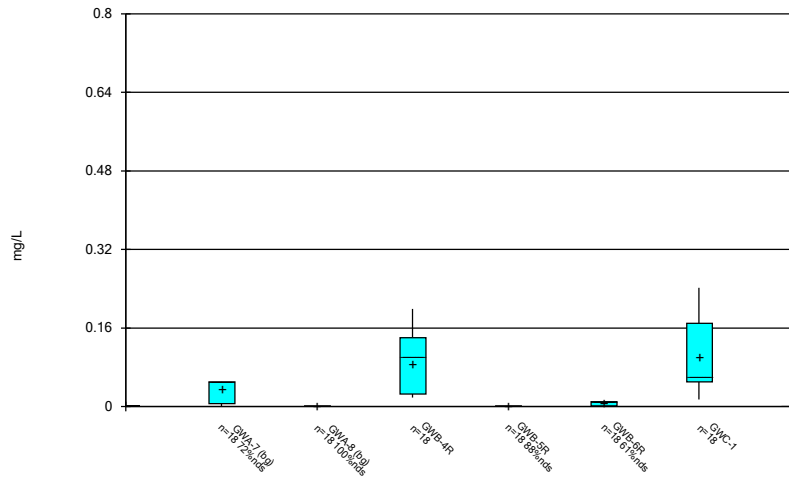
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Box & Whiskers Plot



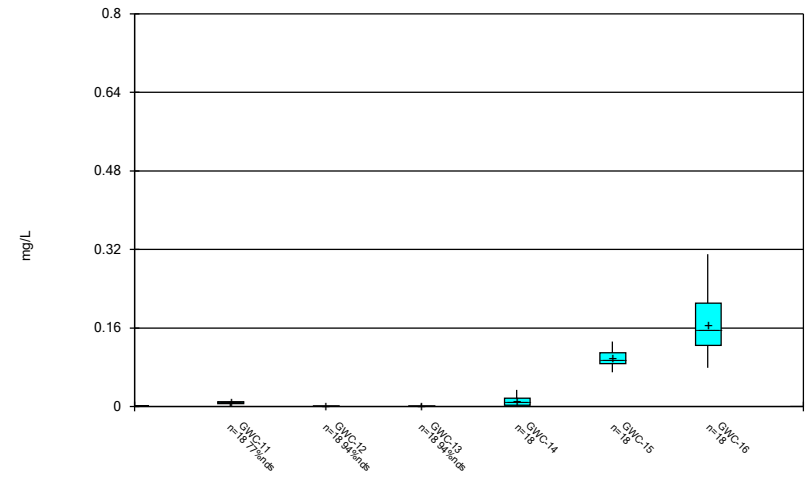
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Box & Whiskers Plot



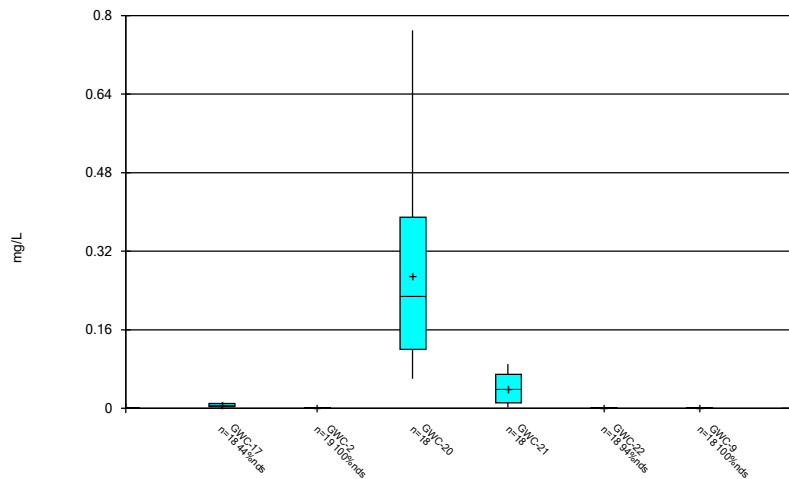
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Box & Whiskers Plot



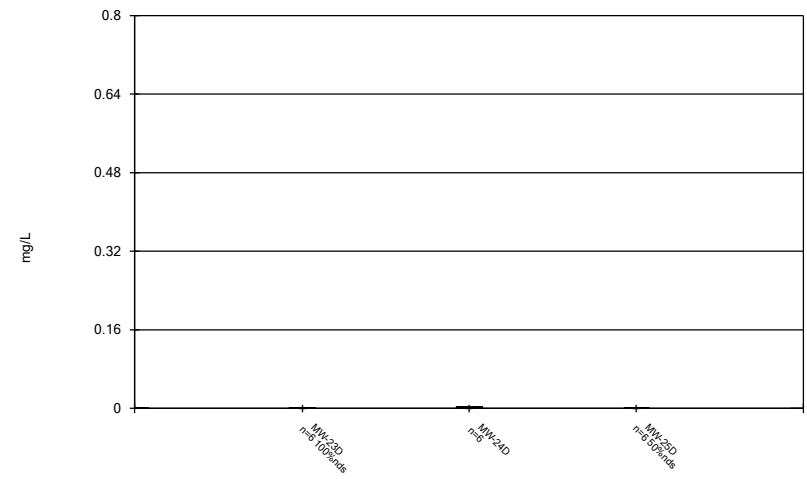
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Box & Whiskers Plot



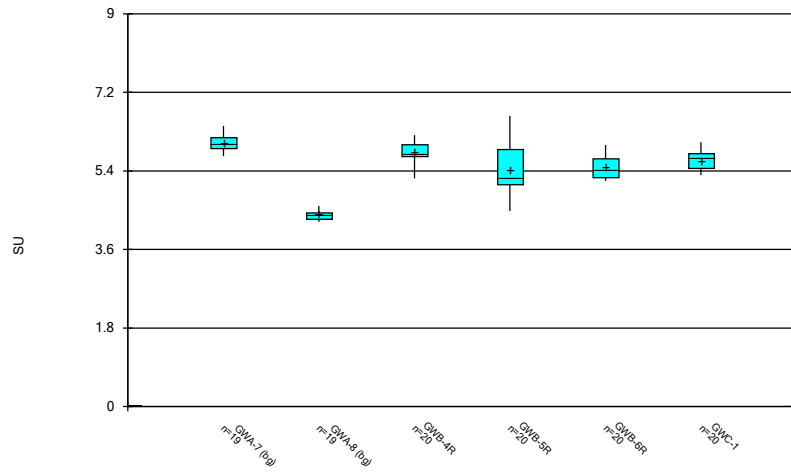
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Box & Whiskers Plot



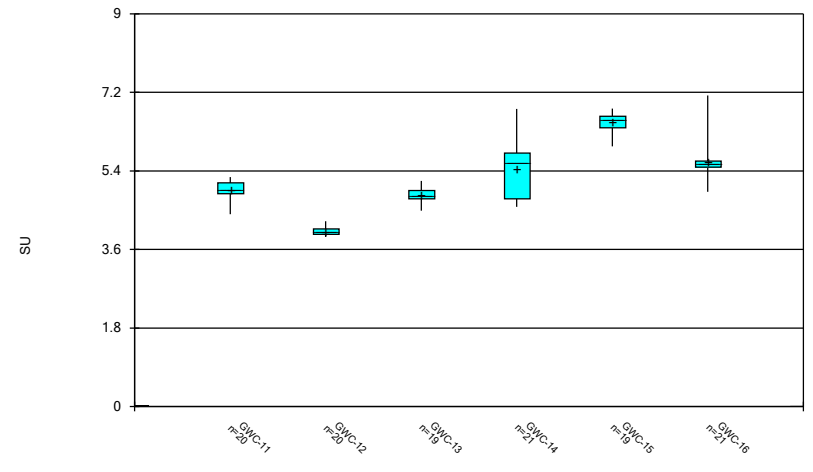
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Box & Whiskers Plot



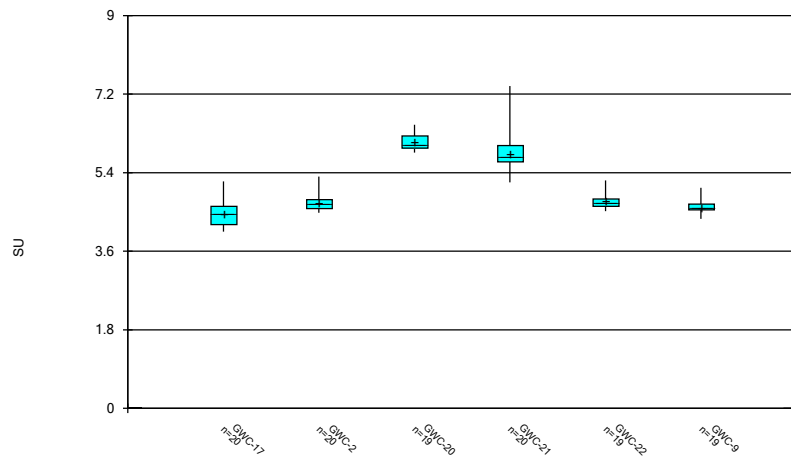
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Box & Whiskers Plot



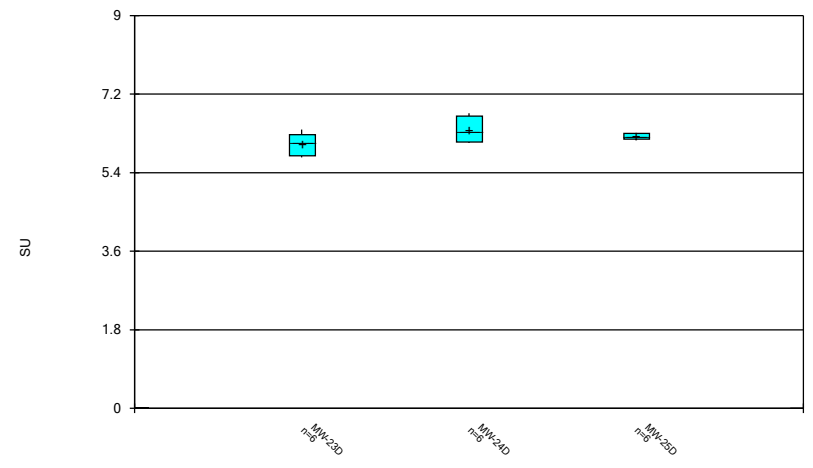
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Box & Whiskers Plot



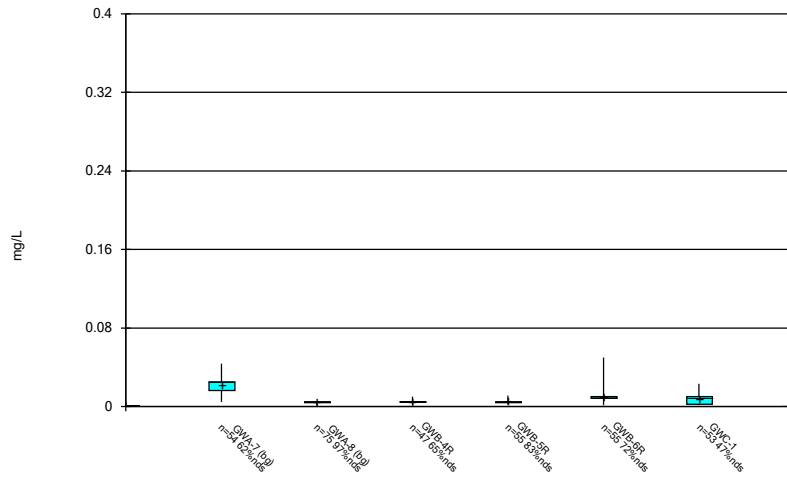
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Box & Whiskers Plot



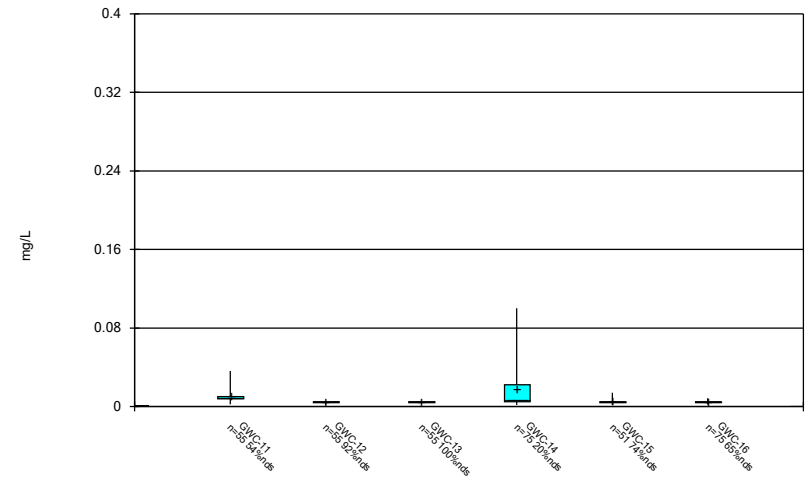
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Box & Whiskers Plot



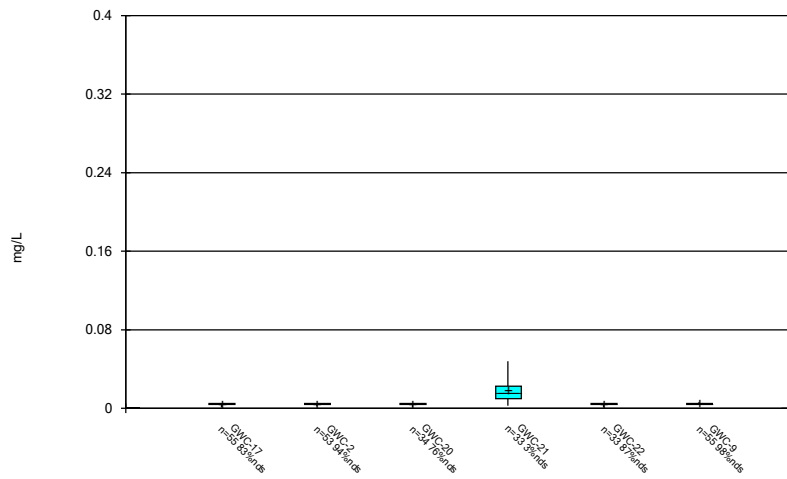
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Box & Whiskers Plot



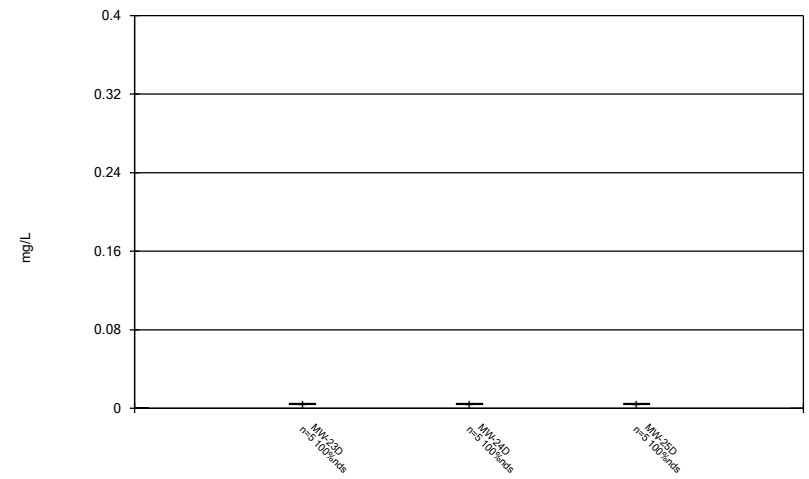
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Box & Whiskers Plot



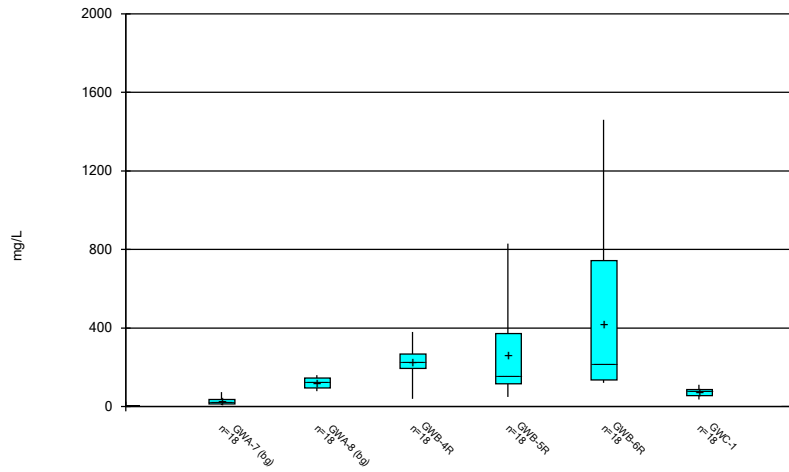
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Box & Whiskers Plot



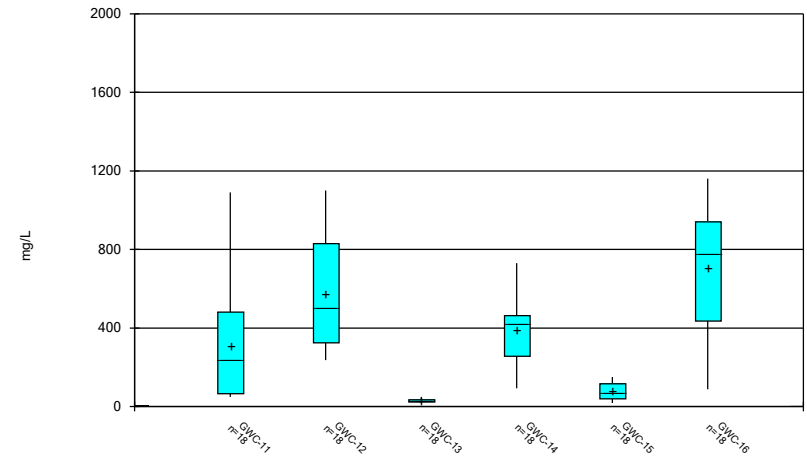
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Box & Whiskers Plot



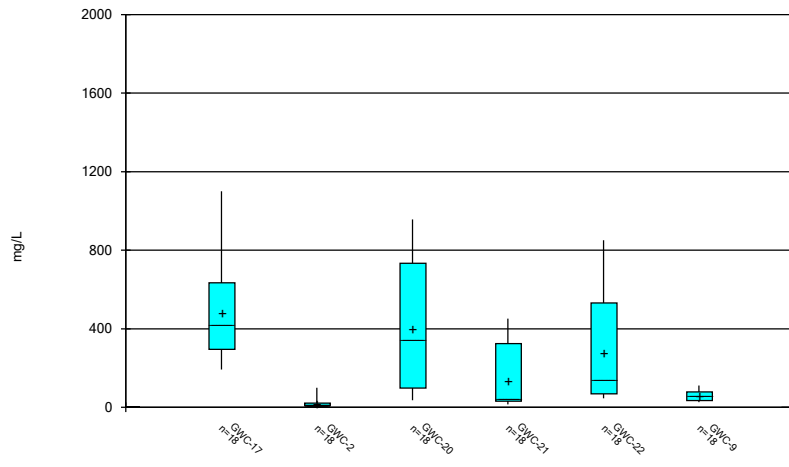
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Box & Whiskers Plot



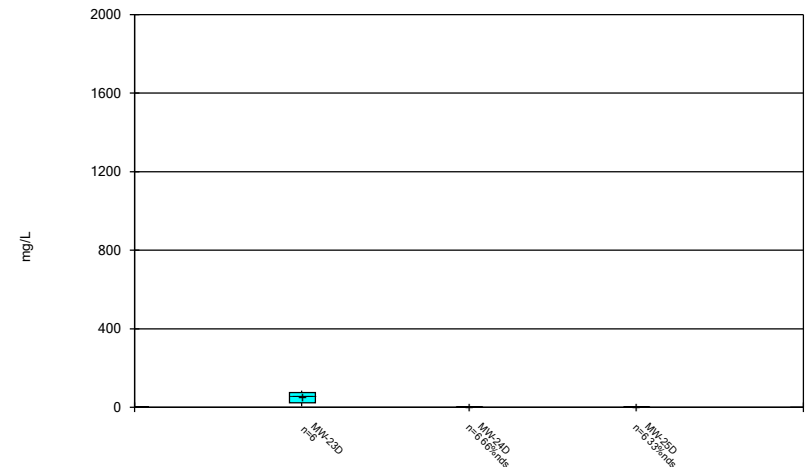
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Box & Whiskers Plot



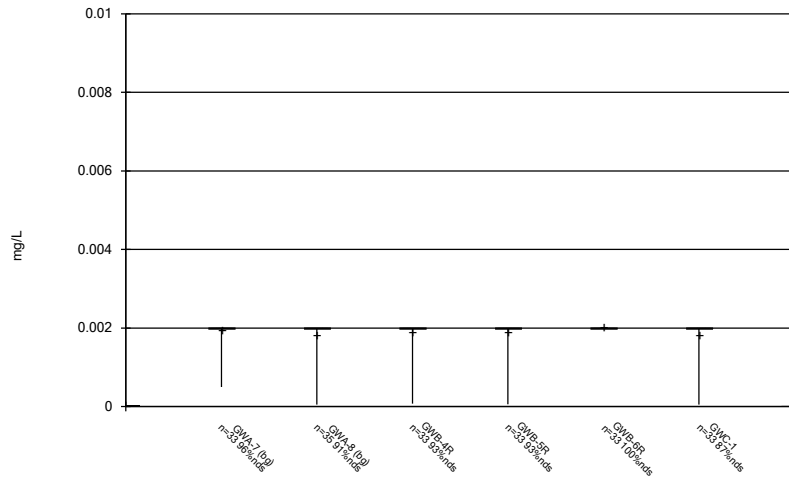
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Box & Whiskers Plot



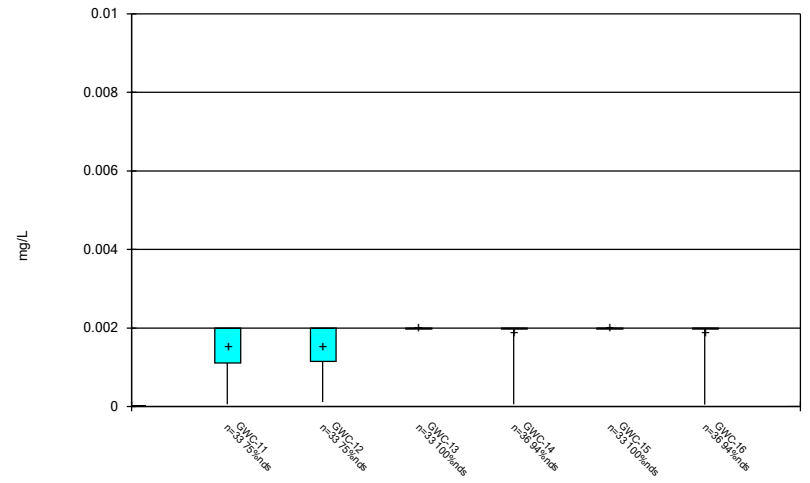
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Box & Whiskers Plot



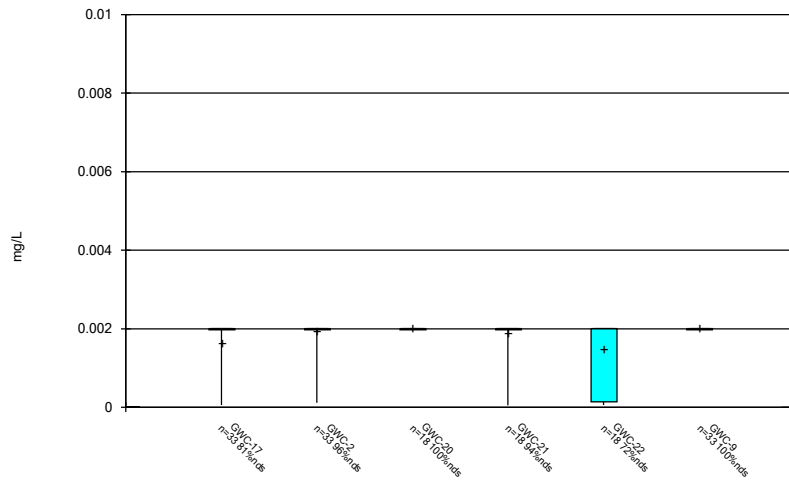
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Box & Whiskers Plot



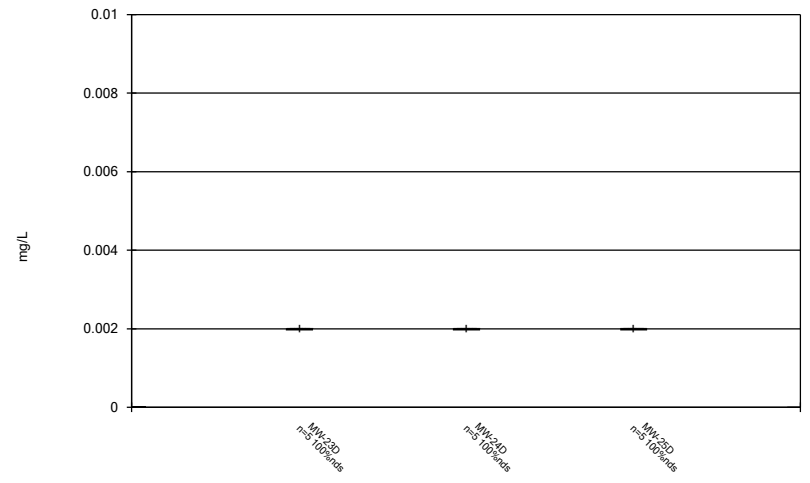
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Box & Whiskers Plot



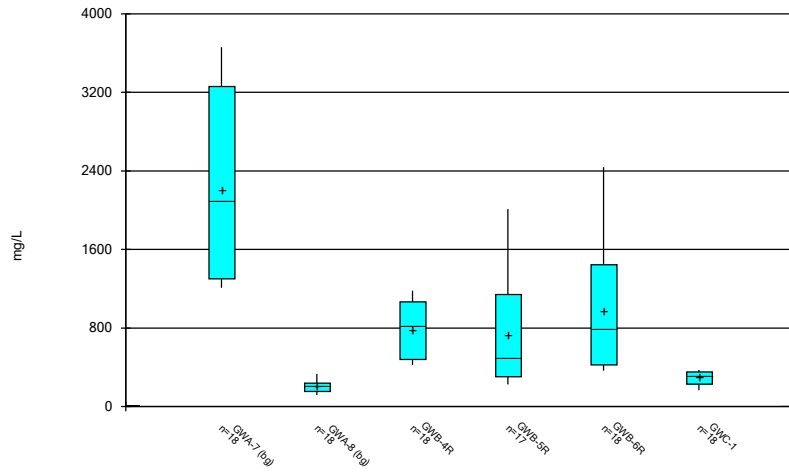
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Box & Whiskers Plot



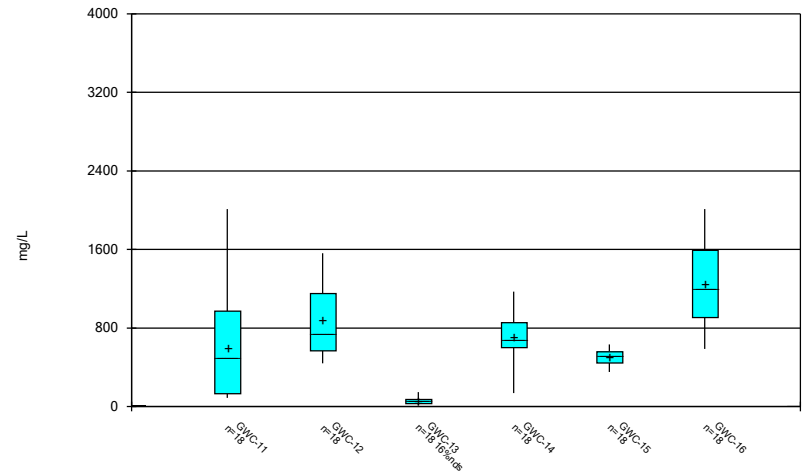
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Box & Whiskers Plot



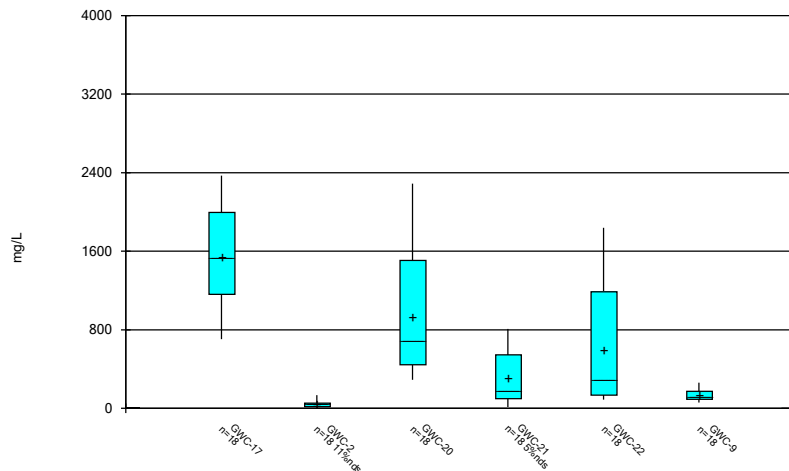
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



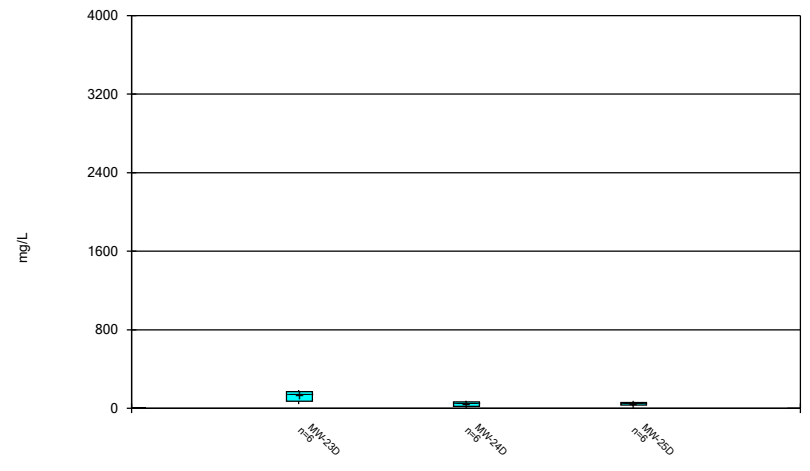
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Box & Whiskers Plot



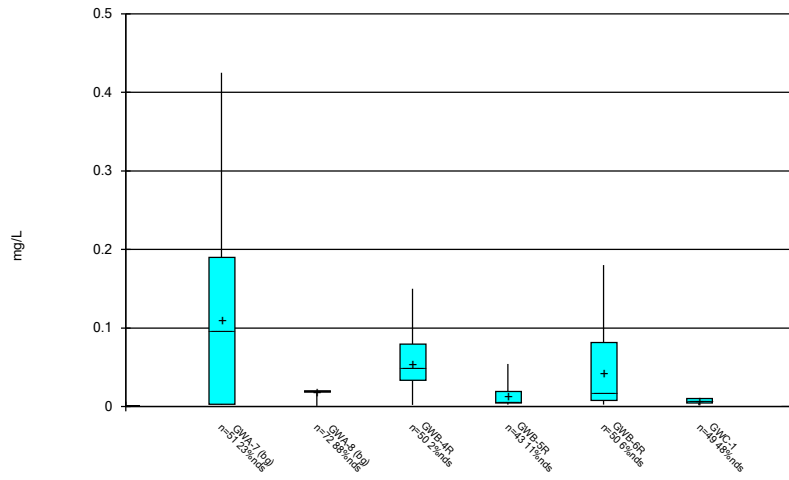
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Box & Whiskers Plot



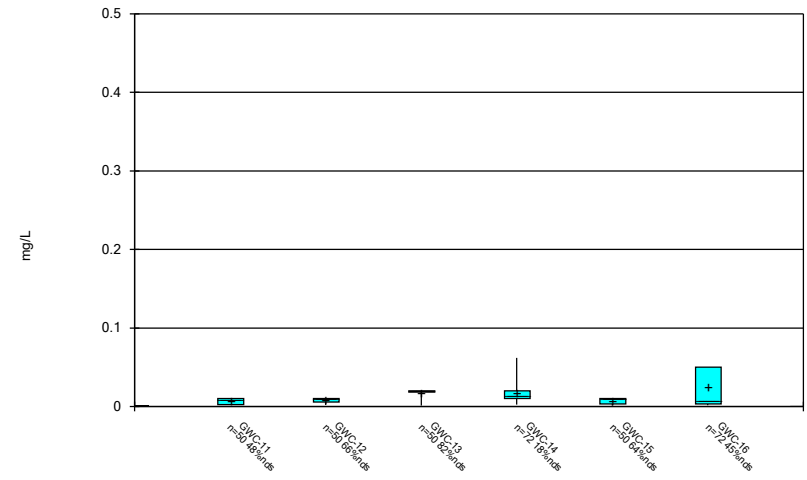
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Box & Whiskers Plot



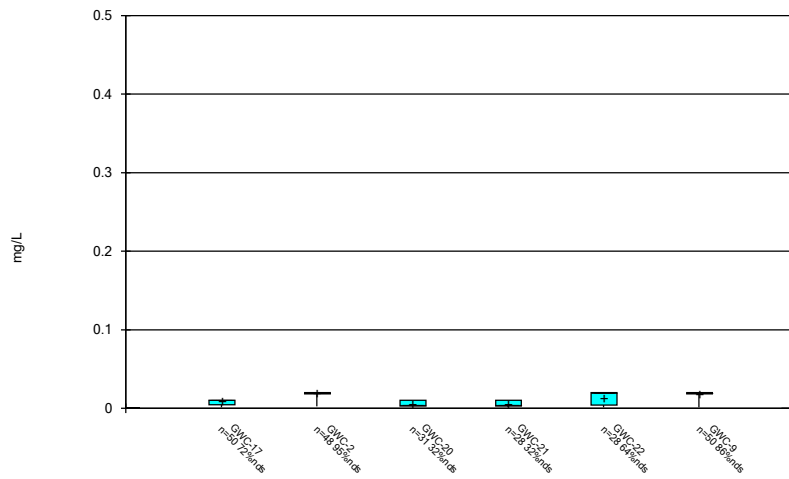
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Box & Whiskers Plot



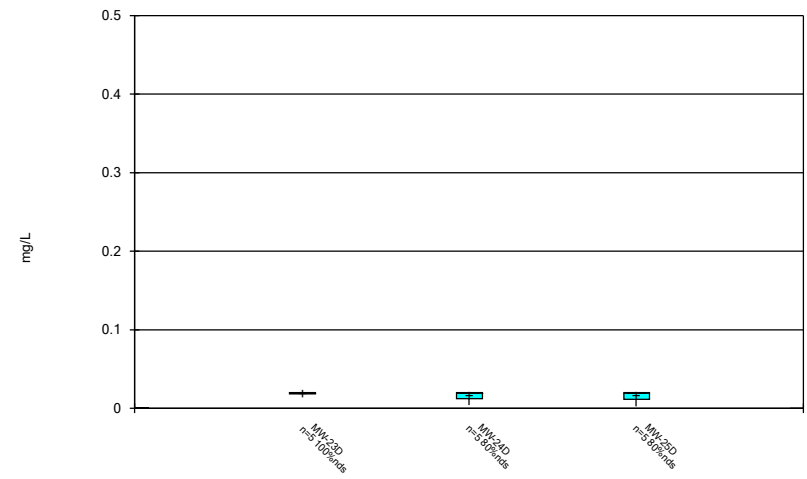
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Box & Whiskers Plot



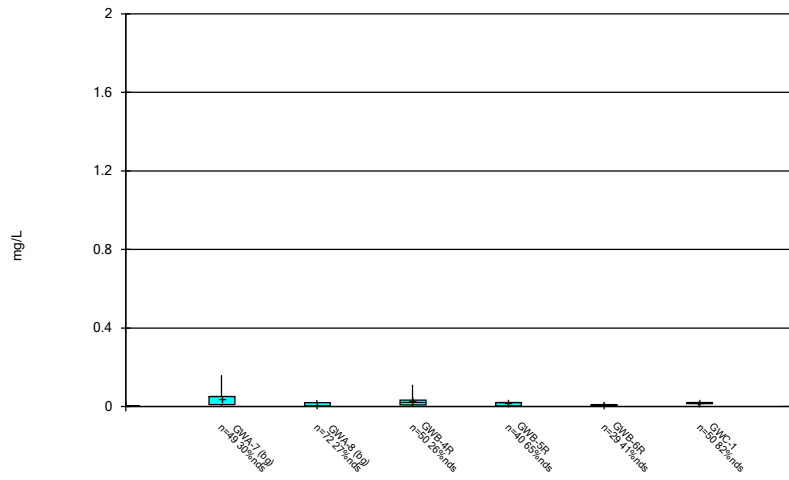
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Box & Whiskers Plot



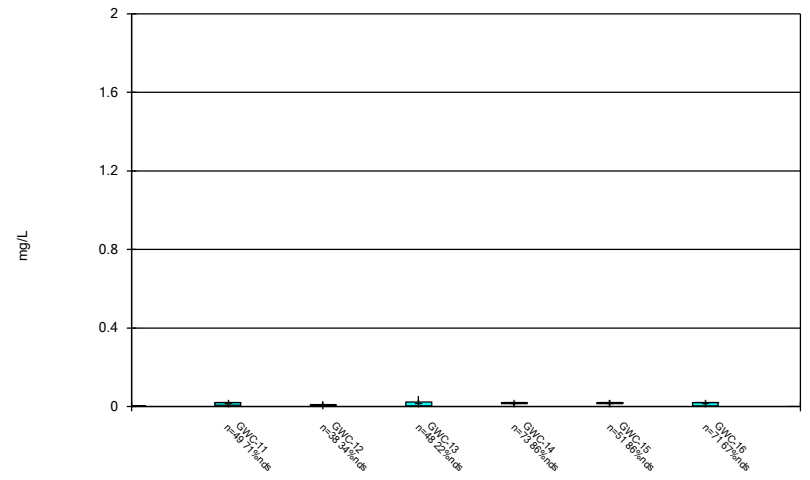
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



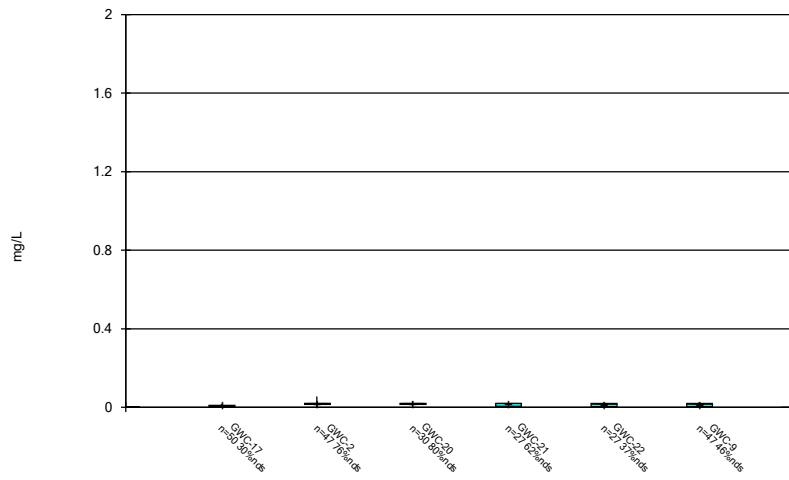
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



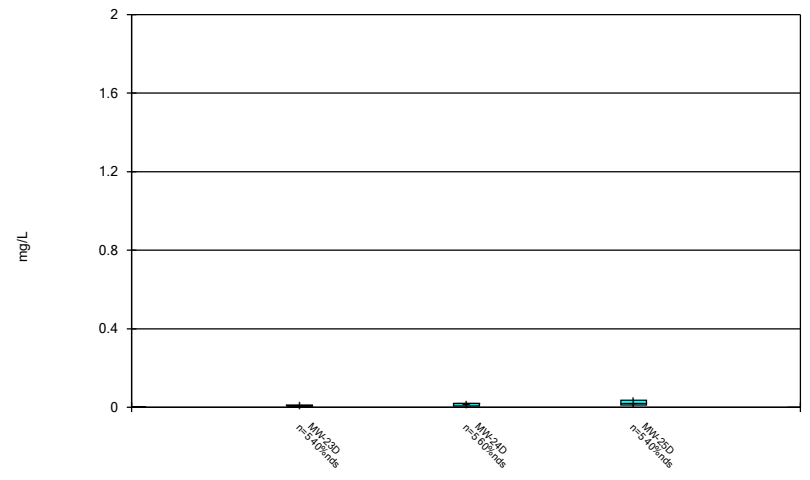
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/20/2023 11:09 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/20/2023 11:09 AM View: Desc.
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE C.

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/21/2023, 8:57 AM

GWC-16 Barium (mg/L) GWC-2 Barium (mg/L) GWC-15 Boron (mg/L) GWC-9 Boron (mg/L) GWA-7 Chromium (mg/L) GWB-5R Chromium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Chromium (mg/L)

Date	GWC-16 Barium (mg/L)	GWC-2 Barium (mg/L)	GWC-15 Boron (mg/L)	GWC-9 Boron (mg/L)	GWA-7 Chromium (mg/L)	GWB-5R Chromium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Chromium (mg/L)
9/29/2000											
11/21/2000											
1/20/2001											
3/14/2001					0.052 (O)						
7/16/2001					0.08 (O)						
11/1/2001					0.13 (O)						
4/25/2002											
11/20/2002					0.053 (O)						
6/6/2003	0.48 (O)				0.064 (O)		0.063 (O)				
12/12/2003	0.13 (O)								0.036 (O)		
5/26/2004											
12/7/2004											
6/21/2005											
12/12/2005											
6/27/2006											
12/4/2006											
6/23/2007											
12/11/2007											
6/24/2008						0.032 (O)					
12/5/2008											
7/7/2009											
12/21/2009											
6/20/2010											
6/21/2010											
7/8/2011											
7/9/2012											
1/18/2013											
4/3/2014											
1/17/2016											
8/31/2016				0.096 (JO)							
9/1/2016			9.01 (O)		0.119 (O)						
10/26/2016		0.113 (O)									
10/3/2017	0.135 (O)										
7/10/2018	0.16 (O)										
7/11/2018										<0.05 (O)	
1/16/2019											
1/17/2019											
1/18/2019											
1/21/2019											
3/25/2019											
10/8/2019											
4/6/2020											
9/28/2020											
1/31/2022										<0.025 (o)	

FIGURE D.

Interwell Prediction Limits Appendix I - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	2/2/2023	0.207	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	2/1/2023	0.115	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	2/1/2023	0.389	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	2/2/2023	0.0323	Yes	129	n/a	n/a	76.74	n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWC-20	0.1788	n/a	2/1/2023	0.194	Yes	127	-2.485	0.3647	0	None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1788	n/a	2/2/2023	0.196	Yes	127	-2.485	0.3647	0	None	ln(x)	0.0004115	Param Inter 1 of 2

Interwell Prediction Limits Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	2/1/2023	0.00286J	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	2/2/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	2/1/2023	0.003ND	No	129	n/a	n/a	95.35n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	2/2/2023	0.00556	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	2/1/2023	0.00295J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	2/1/2023	0.0042J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	2/2/2023	0.00433J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	2/2/2023	0.00261J	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	2/2/2023	0.207	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	2/1/2023	0.115	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	2/1/2023	0.389	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	2/2/2023	0.0323	Yes	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	76.74n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.1788	n/a	2/2/2023	0.101	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWB-5R	0.1788	n/a	2/1/2023	0.101	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWB-6R	0.1788	n/a	2/1/2023	0.0233	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-1	0.1788	n/a	2/2/2023	0.0466	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-11	0.1788	n/a	2/1/2023	0.146	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-12	0.1788	n/a	2/1/2023	0.0256	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-13	0.1788	n/a	2/1/2023	0.0367	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-14	0.1788	n/a	2/2/2023	0.0617	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-15	0.1788	n/a	2/2/2023	0.0557	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-16	0.1788	n/a	2/1/2023	0.163	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-17	0.1788	n/a	2/1/2023	0.0262	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-2	0.1788	n/a	2/2/2023	0.0461	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-20	0.1788	n/a	2/1/2023	0.194	Yes	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1788	n/a	2/2/2023	0.196	Yes	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-22	0.1788	n/a	2/2/2023	0.0456	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Barium (mg/L)	GWC-9	0.1788	n/a	2/1/2023	0.128	No	127	-2.485	0.3647	0 None	ln(x)	0.0004115	Param Inter 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	2/2/2023	0.00502J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	2/1/2023	0.00655J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	2/1/2023	0.00365J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	2/1/2023	0.00503J	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	2/2/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	2/1/2023	0.01ND	No	128	n/a	n/a	61.72n/a	n/a	0.0001201	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2

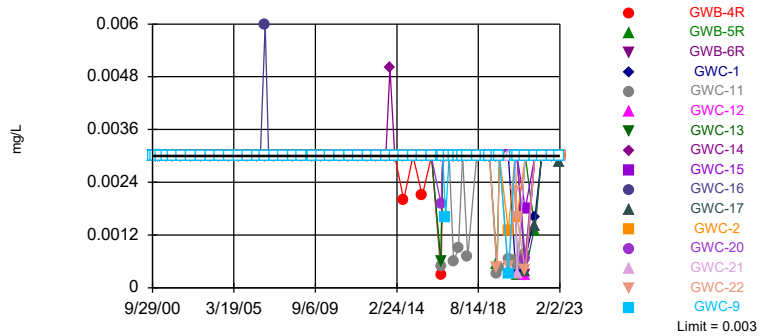
Interwell Prediction Limits Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-12	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	2/2/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	2/1/2023	0.002ND	No	125	n/a	n/a	74.4 n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	2/2/2023	0.00466J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	2/1/2023	0.00187J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	2/1/2023	0.00182J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	2/2/2023	0.0022J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	2/1/2023	0.00333J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	2/2/2023	0.0035J	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	2/2/2023	0.00542	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	2/2/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	2/1/2023	0.005ND	No	129	n/a	n/a	82.95n/a	n/a	0.0001184	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	2/2/2023	0.021	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	2/1/2023	0.0255	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	2/1/2023	0.0201	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	2/2/2023	0.00497J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	2/1/2023	0.00373J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	2/1/2023	0.0056J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	2/1/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	2/2/2023	0.00594J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	2/2/2023	0.00453J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	2/1/2023	0.00361J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	2/1/2023	0.005J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	2/2/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	2/1/2023	0.00526J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	2/2/2023	0.00537J	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	2/2/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	2/1/2023	0.02ND	No	123	n/a	n/a	61.79n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	2/1/2023	0.0121J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	2/1/2023	0.00334J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	2/1/2023	0.025	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	2/1/2023	0.00583J	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	2/2/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	2/1/2023	0.02ND	No	121	n/a	n/a	28.93n/a	n/a	0.0001324	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

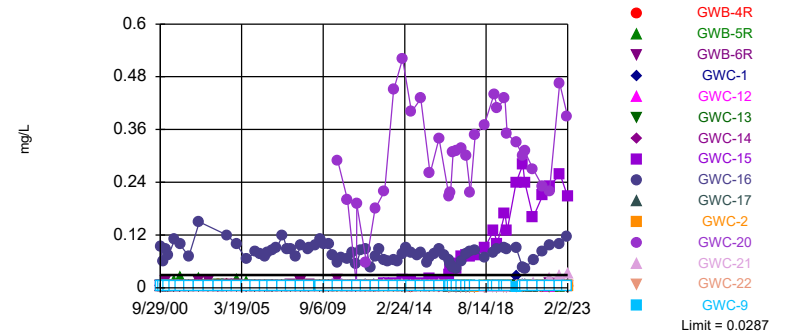


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 129 background values. 95.35% NDs. Annual per-constituent alpha = 0.003781. Individual comparison alpha = 0.0001184 (1 of 2). Comparing 16 points to limit.

Constituent: Antimony Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-15, GWC-16, GWC-20, GWC-21

Prediction Limit
Interwell Non-parametric

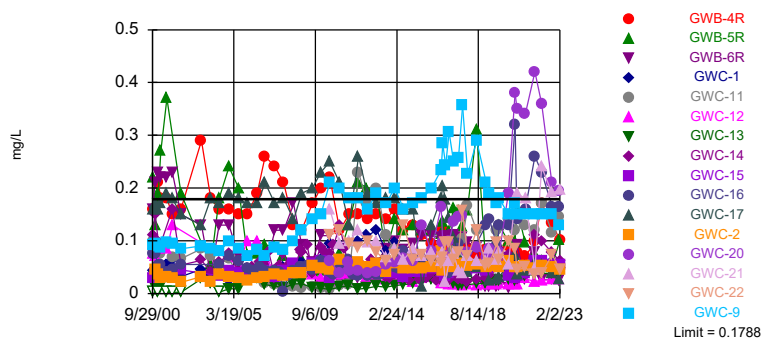


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 129 background values. 76.74% NDs. Annual per-constituent alpha = 0.003781. Individual comparison alpha = 0.0001184 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Arsenic Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-20, GWC-21

Prediction Limit
Interwell Parametric

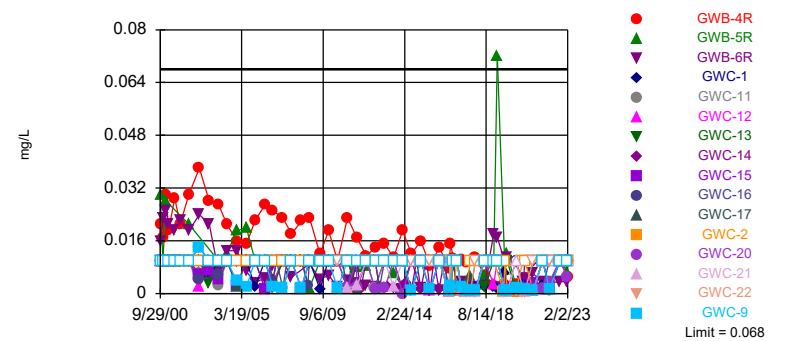


Background Data Summary (based on natural log transformation): Mean=-2.485, Std. Dev.=0.3647, n=127. Normality test: Chi Squared @alpha = 0.01, calculated = 12.92, critical = 14.07. Kappa = 2.095 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.006563. Individual comparison alpha = 0.0004115. Comparing 16 points to limit.

Constituent: Barium Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

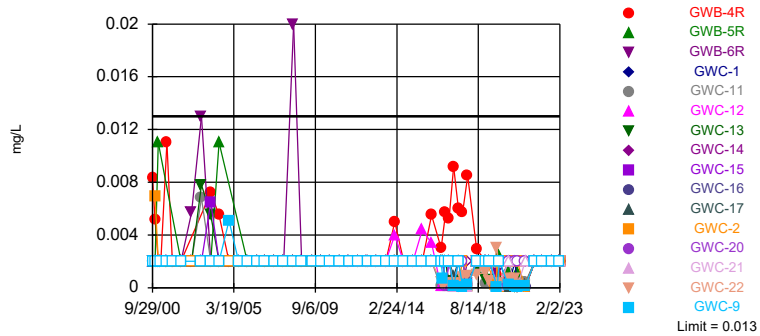


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 61.72% NDs. Annual per-constituent alpha = 0.003837. Individual comparison alpha = 0.0001201 (1 of 2). Comparing 16 points to limit.

Constituent: Chromium Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

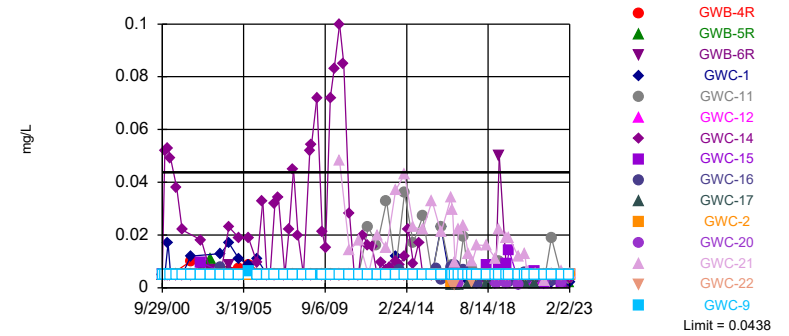


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 125 background values. 74.4% NDs. Annual per-constituent alpha = 0.004005. Individual comparison alpha = 0.0001254 (1 of 2). Comparing 16 points to limit.

Constituent: Lead Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

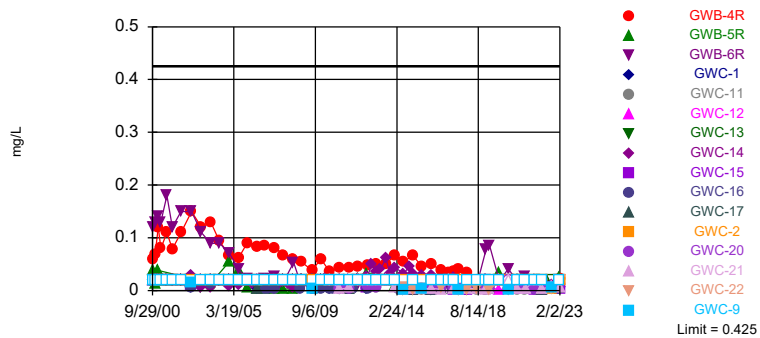


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 129 background values. 82.95% NDs. Annual per-constituent alpha = 0.003781. Individual comparison alpha = 0.0001184 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Selenium Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

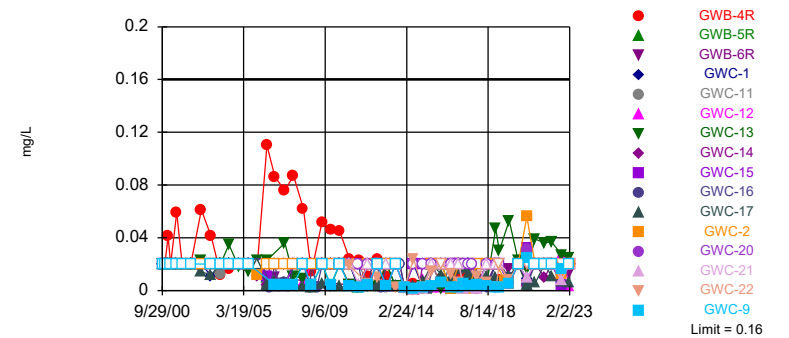


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 123 background values. 61.79% NDs. Annual per-constituent alpha = 0.004116. Individual comparison alpha = 0.0001289 (1 of 2). Comparing 16 points to limit.

Constituent: Vanadium Analysis Run 4/20/2023 11:17 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

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 121 background values. 28.93% NDs. Annual per-constituent alpha = 0.004228. Individual comparison alpha = 0.0001324 (1 of 2). Comparing 16 points to limit.

Constituent: Zinc Analysis Run 4/20/2023 11:18 AM View: A I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006		<0.003		<0.003					
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006		<0.003		<0.003					
12/4/2006	<0.003	<0.003	<0.003	0.006	<0.003	<0.003	<0.003	<0.003	<0.003
2/15/2007		<0.003		<0.003					
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007		<0.003		<0.003					
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008		<0.003		<0.003					
6/23/2008	<0.003		<0.003		<0.003	<0.003			
6/24/2008		<0.003		<0.003			<0.003	<0.003	<0.003
11/3/2008		<0.003		<0.003					
12/4/2008	<0.003	<0.003	<0.003		<0.003	<0.003			
12/5/2008				<0.003			<0.003	<0.003	<0.003
3/25/2009		<0.003		<0.003					
7/7/2009	<0.003							<0.003	<0.003
7/8/2009		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
9/14/2009		<0.003		<0.003					
12/20/2009	<0.003	<0.003		<0.003				<0.003	
12/21/2009			<0.003		<0.003	<0.003	<0.003		<0.003
3/4/2010		<0.003		<0.003					
6/20/2010	<0.003	<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
6/21/2010				<0.003			<0.003		
9/14/2010		<0.003		<0.003					
1/6/2011			<0.003			<0.003		<0.003	
1/7/2011	<0.003	<0.003		<0.003	<0.003		<0.003		<0.003
4/15/2011		<0.003		<0.003					
7/7/2011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
7/8/2011							<0.003		
9/25/2011		<0.003		<0.003					
1/17/2012	<0.003	<0.003	<0.003		<0.003	<0.003		<0.003	
1/18/2012				<0.003			<0.003		<0.003
4/4/2012		<0.003		<0.003					
7/9/2012	<0.003	<0.003	<0.003		<0.003	<0.003		<0.003	
7/10/2012				<0.003			<0.003		<0.003
10/9/2012		<0.003		<0.003					
1/17/2013			<0.003		<0.003	<0.003		<0.003	
1/18/2013	<0.003	<0.003		<0.003			<0.003		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
4/5/2013		<0.003		<0.003					
7/16/2013			<0.003		<0.003	<0.003		<0.003	
7/17/2013	<0.003	<0.003		<0.003			<0.003		<0.003
10/11/2013		0.005		<0.003					
1/13/2014	<0.003		<0.003		<0.003	<0.003		<0.003	
1/14/2014		<0.003		<0.003			<0.003		<0.003
4/3/2014		<0.003		<0.003					
7/8/2014			<0.003		<0.003	<0.003			
7/9/2014	0.0022 (J)	<0.003		<0.003			<0.003	<0.003	<0.003
7/10/2014									
10/24/2014		<0.003		<0.003					
1/12/2015									
1/13/2015	<0.003		<0.003		<0.003	<0.003		<0.003	
1/14/2015		<0.003		<0.003			<0.003		<0.003
5/10/2015		<0.003							
5/11/2015				<0.003					
7/16/2015	0.0028 (J)		<0.003	<0.003	<0.003	<0.003		<0.003	
7/17/2015		<0.003							<0.003
7/18/2015							<0.003		
10/6/2015		<0.003		<0.003					
1/17/2016		<0.003		<0.003				<0.003	
1/18/2016	<0.003		<0.003		<0.003		<0.003		<0.003
1/19/2016						<0.003			
4/26/2016		<0.003		<0.003					
7/26/2016			0.0006 (J)			0.0005 (J)			
7/27/2016	<0.003	<0.003			<0.003			<0.003	
7/28/2016				<0.003					<0.003
7/29/2016							<0.003		
8/30/2016								<0.003	<0.003
8/31/2016			<0.003		<0.003	<0.003			
9/1/2016	0.0017 (J)	<0.003		<0.003			<0.003		
10/24/2016									
10/25/2016	<0.003	<0.003		<0.003				<0.003	
10/26/2016			<0.003		<0.003	<0.003	<0.003		<0.003
10/27/2016									
1/3/2017									
1/4/2017				<0.003	<0.003	<0.003		<0.003	
1/5/2017		<0.003	<0.003				<0.003		<0.003
1/6/2017	0.0009 (J)								
4/3/2017									
4/4/2017		<0.003						<0.003	
4/5/2017				<0.003	<0.003		<0.003		
4/6/2017	<0.003		<0.003			0.0006 (J)			<0.003
7/10/2017					<0.003				
7/11/2017		<0.003				0.0009 (J)			
7/12/2017			<0.003	<0.003				<0.003	<0.003
7/13/2017	0.0013 (J)						<0.003		
10/2/2017		<0.003							
10/3/2017				<0.003		<0.003		<0.003	<0.003
10/4/2017	0.0008 (J)		<0.003		<0.003		<0.003		
1/9/2018	<0.003	<0.003							<0.003
1/10/2018			<0.003	<0.003				<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-13	GWC-16	GWC-12	GWC-11	GWC-17	GWC-1	GWB-6R
1/11/2018					<0.003	0.0007 (J)	<0.003		
7/9/2018		<0.003							
7/10/2018				<0.003				<0.003	<0.003
7/11/2018	<0.003		<0.003		<0.003	<0.003	<0.003		
1/16/2019	<0.003	<0.003	<0.003				<0.003	<0.003	<0.003
1/17/2019				<0.003	<0.003	<0.003			
1/18/2019									
1/21/2019									
3/25/2019	<0.003								
3/26/2019		<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
3/27/2019					<0.003	<0.003			
7/30/2019									
8/26/2019	<0.003								
8/27/2019		<0.003	<0.003		<0.003	0.00033 (J)		<0.003	<0.003
8/28/2019				<0.003			<0.003		
10/7/2019									
10/8/2019	<0.003	<0.003	<0.003	<0.003		0.00046 (J)			
10/9/2019					<0.003		<0.003	<0.003	<0.003
4/6/2020	<0.003								
4/7/2020		<0.003		<0.003	<0.003	0.00066 (J)		<0.003	<0.003
4/8/2020			<0.003				<0.003		
8/17/2020			<0.003		<0.003				
8/18/2020		<0.003		<0.003		0.00064 (J)	<0.003		
8/19/2020	<0.003							0.00061 (J)	<0.003
9/28/2020	<0.003		<0.003					0.00035 (J)	
9/29/2020		<0.003			<0.003	0.00051 (J)			
9/30/2020				<0.003			<0.003		0.00059 (J)
10/1/2020									
3/10/2021					0.0003 (J)	0.00076 (J)		0.00069 (J)	0.00029 (J)
3/11/2021	<0.003						0.00039 (J)		
3/12/2021									
3/15/2021			<0.003						
3/16/2021		<0.003		<0.003					
9/21/2021	<0.003		<0.003		<0.003	<0.003			<0.003
9/22/2021		<0.003		<0.003			0.0014 (J)		
9/23/2021								0.0016 (J)	
1/31/2022	<0.003								
2/1/2022				<0.003			<0.003		
2/2/2022		<0.003							<0.003
2/3/2022			<0.003		<0.003	<0.003		<0.003	
8/30/2022	<0.003	<0.003			<0.003				<0.003
8/31/2022			<0.003			<0.003	<0.003		
9/1/2022				<0.003				<0.003	
1/31/2023	<0.003								
2/1/2023			<0.003	<0.003	<0.003	<0.003	0.00286 (J)		<0.003
2/2/2023		<0.003						<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003				
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/4/2006				<0.003					
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
8/30/2006				<0.003					
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
2/15/2007				<0.003					
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
9/11/2007				<0.003					
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/11/2008				<0.003					
6/23/2008			<0.003	<0.003					
6/24/2008	<0.003	<0.003			<0.003	<0.003			
11/3/2008				<0.003					
12/4/2008			<0.003	<0.003				<0.003	
12/5/2008	<0.003	<0.003			<0.003				
3/25/2009				<0.003					
7/7/2009	<0.003	<0.003		<0.003					
7/8/2009			<0.003		<0.003	<0.003			
9/14/2009				<0.003					
12/20/2009				<0.003	<0.003	<0.003			
12/21/2009	<0.003	<0.003	<0.003						
3/4/2010				<0.003					
6/20/2010	<0.003		<0.003	<0.003	<0.003	<0.003			
6/21/2010		<0.003					<0.003	<0.003	<0.003
9/14/2010				<0.003					
1/6/2011	<0.003					<0.003			
1/7/2011		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
4/15/2011				<0.003					
7/7/2011	<0.003			<0.003	<0.003			<0.003	
7/8/2011		<0.003	<0.003				<0.003	<0.003	<0.003
9/25/2011				<0.003					
1/17/2012	<0.003			<0.003	<0.003	<0.003			
1/18/2012		<0.003	<0.003				<0.003	<0.003	<0.003
4/4/2012				<0.003					
7/9/2012	<0.003				<0.003	<0.003			
7/10/2012		<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
10/9/2012				<0.003					
1/17/2013	<0.003					<0.003			
1/18/2013		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
4/5/2013				<0.003					
7/16/2013	<0.003								
7/17/2013		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/11/2013				<0.003					
1/13/2014	<0.003				<0.003	<0.003			
1/14/2014		<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
4/3/2014				<0.003					
7/8/2014									
7/9/2014	<0.003	0.002 (J)	<0.003	<0.003	<0.003	<0.003			<0.003
7/10/2014							<0.003	<0.003	
10/24/2014				<0.003					
1/12/2015		<0.003						<0.003	
1/13/2015	<0.003				<0.003	<0.003			
1/14/2015			<0.003	<0.003			<0.003		<0.003
5/10/2015				<0.003					
5/11/2015									
7/16/2015	<0.003	0.0021 (J)			<0.003	<0.003			
7/17/2015			<0.003	<0.003					<0.003
7/18/2015							<0.003	<0.003	
10/6/2015				<0.003					
1/17/2016					<0.003	<0.003		<0.003	<0.003
1/18/2016	<0.003	<0.003	<0.003	<0.003			<0.003		
1/19/2016									
4/26/2016				<0.003					
7/26/2016									
7/27/2016	<0.003				<0.003	<0.003			
7/28/2016			<0.003	<0.003				0.0019 (J)	<0.003
7/29/2016		0.0003 (J)					<0.003		
8/30/2016	<0.003			<0.003					
8/31/2016			<0.003			<0.003	<0.003		
9/1/2016		<0.003			<0.003			<0.003	<0.003
10/24/2016				<0.003					
10/25/2016					<0.003			<0.003	<0.003
10/26/2016	<0.003	<0.003				<0.003	<0.003		
10/27/2016			0.0016 (J)						
1/3/2017	<0.003			<0.003					
1/4/2017							<0.003	<0.003	<0.003
1/5/2017					<0.003	<0.003			
1/6/2017		<0.003	<0.003						
4/3/2017				<0.003	<0.003				
4/4/2017		<0.003				<0.003		<0.003	<0.003
4/5/2017									
4/6/2017	<0.003		<0.003				<0.003		
7/10/2017									
7/11/2017				<0.003	<0.003		<0.003	<0.003	
7/12/2017	<0.003	<0.003	<0.003						
7/13/2017						<0.003			<0.003
10/2/2017				<0.003	<0.003			<0.003	
10/3/2017	<0.003					<0.003			<0.003
10/4/2017		<0.003	<0.003				<0.003		
1/9/2018				<0.003	<0.003				<0.003
1/10/2018	<0.003					<0.003		<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/20/2023 11:19 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
1/11/2018		<0.003	<0.003				<0.003		
7/9/2018				<0.003				<0.003	
7/10/2018	<0.003				<0.003	<0.003			<0.003
7/11/2018		<0.003	<0.003				<0.003		
1/16/2019	<0.003	<0.003		<0.003					
1/17/2019					<0.003				<0.003
1/18/2019			<0.003				<0.003		
1/21/2019						<0.003		<0.003	
3/25/2019		<0.003		<0.003				<0.003	
3/26/2019	<0.003				<0.003				<0.003
3/27/2019			<0.003				<0.003		
7/30/2019						<0.003			
8/26/2019				<0.003					
8/27/2019		<0.003			<0.003	<0.003	0.00045 (J)		
8/28/2019	0.00054 (J)		<0.003					<0.003	<0.003
10/7/2019				<0.003					
10/8/2019					<0.003				<0.003
10/9/2019	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	
4/6/2020				<0.003					
4/7/2020	<0.003	<0.003			<0.003		0.00049 (J)		<0.003
4/8/2020			0.00033 (J)			0.0013 (J)		<0.003	
8/17/2020				<0.003					
8/18/2020					<0.003	<0.003	0.0022 (J)	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003						
9/28/2020				<0.003					
9/29/2020						0.0016 (J)			
9/30/2020	0.0003 (J)				<0.003		0.0016 (J)	<0.003	0.00033 (J)
10/1/2020		<0.003	<0.003						
3/10/2021	<0.003	<0.003	<0.003				0.0004 (J)		
3/11/2021									
3/12/2021				<0.003	0.0018 (J)			0.00065 (J)	
3/15/2021						<0.003			
3/16/2021									<0.003
9/21/2021	0.0013 (J)	<0.003		<0.003			<0.003		
9/22/2021			<0.003			<0.003		<0.003	<0.003
9/23/2021					<0.003				
1/31/2022				<0.003					
2/1/2022								<0.003	<0.003
2/2/2022		<0.003	<0.003			<0.003			
2/3/2022	<0.003				<0.003		<0.003		
8/30/2022	<0.003	<0.003		<0.003				<0.003	<0.003
8/31/2022					<0.003		<0.003		
9/1/2022			<0.003			<0.003			
1/31/2023				<0.003					
2/1/2023	<0.003		<0.003					<0.003	
2/2/2023		<0.003			<0.003	<0.003	<0.003		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/20/2001	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		0.022	0.014	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
6/6/2003	0.02	0.07 (O)	0.014	0.03 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005
5/26/2004	<0.005	0.0074	0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2004	<0.005	0.017	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2005	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006					<0.005			<0.005	
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006					<0.005			<0.005	
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007					<0.005			<0.005	
6/23/2007	<0.005	<0.005	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007					<0.005			<0.005	
12/11/2007	<0.005	<0.005	0.0057	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2008					<0.005			<0.005	
6/23/2008	<0.005				<0.005	<0.005	<0.005		
6/24/2008		<0.005	0.012	<0.005				<0.005	<0.005
11/3/2008					<0.005			<0.005	
12/4/2008	<0.005				<0.005	<0.005	<0.005	<0.005	
12/5/2008		<0.005	0.0064	<0.005					<0.005
3/25/2009					<0.005			<0.005	
7/7/2009	<0.005	<0.005	<0.005	<0.005	<0.005				
7/8/2009						<0.005	<0.005	<0.005	0.0052
9/14/2009					<0.005			<0.005	
12/20/2009	<0.005			<0.005	<0.005			<0.005	<0.005
12/21/2009		<0.005	<0.005			<0.005	<0.005		
3/4/2010					<0.005			<0.005	
6/20/2010	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	0.0068
6/21/2010									
9/14/2010					<0.005			<0.005	
1/6/2011		<0.005		<0.005			<0.005		
1/7/2011	<0.005		<0.005		<0.005	<0.005		<0.005	<0.005
4/15/2011					<0.005			<0.005	
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/8/2011									
9/25/2011					<0.005			<0.005	
1/17/2012	<0.005	<0.005		0.0071	<0.005	<0.005	<0.005	<0.005	<0.005
1/18/2012			<0.005						
4/4/2012					<0.005			<0.005	
7/9/2012	0.0052	<0.005		0.0076		<0.005	<0.005	<0.005	<0.005
7/10/2012			<0.005		<0.005				
10/9/2012					<0.005			<0.005	
1/17/2013		<0.005		0.0086		<0.005	<0.005		
1/18/2013	0.0087		<0.005		<0.005			<0.005	0.0089

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
4/5/2013					<0.005			<0.005	
7/16/2013		<0.005		<0.005		<0.005	<0.005		
7/17/2013	0.0084		<0.005		<0.005		<0.005		0.011
10/11/2013					<0.005			0.005	
1/13/2014	0.009	<0.005		<0.005		<0.005	<0.005		0.017
1/14/2014			<0.005		<0.005			<0.005	
4/3/2014					<0.005			<0.005	
7/8/2014						<0.005	<0.005		
7/9/2014	0.008	<0.005	<0.005	0.0022 (J)	<0.005			<0.005	0.014
7/10/2014									
10/24/2014					<0.005			<0.005	
1/12/2015									
1/13/2015	0.0077	<0.005		<0.005		<0.005	<0.005		0.011
1/14/2015			<0.005		<0.005			<0.005	
5/10/2015					<0.005			<0.005	
5/11/2015									
7/16/2015	0.0077	<0.005		0.0037 (J)		<0.005	<0.005		0.02
7/17/2015			<0.005		<0.005			<0.005	
7/18/2015									
10/6/2015					<0.005			<0.005	
1/17/2016				0.024 (O)				0.002 (J)	0.014
1/18/2016	0.014	<0.005	<0.005		<0.005	<0.005	<0.005		
4/26/2016					0.0011 (J)			0.00183 (J)	
7/26/2016							<0.005		
7/27/2016	0.0111	0.0008 (J)		0.0046 (J)		<0.005		0.0021 (J)	0.0303
7/28/2016			0.0009 (J)		<0.005				
7/29/2016									
8/30/2016		<0.005	<0.005	0.0023 (J)	<0.005				
8/31/2016						<0.005	<0.005		
9/1/2016	0.0287							0.0024 (J)	0.0533
10/24/2016					<0.005				
10/25/2016	0.0069			0.0035 (J)				<0.005	0.0551
10/26/2016		<0.005	<0.005			<0.005	<0.005		
10/27/2016									
1/3/2017		<0.005			<0.005				
1/4/2017				0.0018 (J)		<0.005			
1/5/2017			0.0021 (J)				<0.005	0.0024 (J)	0.0437
1/6/2017	0.0097								
4/3/2017					0.0006 (J)				0.0713
4/4/2017				0.0015 (J)				0.003 (J)	
4/5/2017						0.0006 (J)			
4/6/2017	0.0104	0.0006 (J)	0.0011 (J)				<0.005		
7/10/2017						0.0008 (J)			
7/11/2017					0.0006 (J)			0.0019 (J)	0.0745
7/12/2017		0.0009 (J)	0.0014 (J)	0.0015 (J)			<0.005		
7/13/2017	0.0064								
10/2/2017					0.0006 (J)			0.0026 (J)	0.0723
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)					
10/4/2017	0.0078					0.0009 (J)	<0.005		
1/9/2018	0.0091 (J)		0.0017 (J)		0.0009 (J)			0.0021 (J)	0.0731
1/10/2018		0.0012 (J)		0.0023 (J)			0.0006 (J)		
1/11/2018						<0.005			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-12	GWC-13	GWC-14	GWC-15
7/9/2018					<0.005			0.0019 (J)	
7/10/2018		0.0016 (J)	0.00063 (J)	0.0031 (J)					0.09
7/11/2018	<0.005					<0.005	<0.005		
1/16/2019	<0.005	0.0011 (J)	<0.005	0.0023 (J)	<0.005		<0.005	0.0016 (J)	
1/17/2019						<0.005			0.13
1/18/2019									
1/21/2019									
3/25/2019	0.0029 (J)				<0.005				
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)			0.00058 (J)	0.0023 (J)	0.1
3/27/2019						<0.005			
7/30/2019									
8/26/2019	0.0041 (J)				<0.005				
8/27/2019			0.0035 (J)	0.0022 (J)		<0.005	<0.005	0.0017 (J)	0.17
8/28/2019		0.0023 (J)							
10/7/2019					<0.005				
10/8/2019	0.003 (J)						<0.005	0.0017 (J)	0.13
10/9/2019		0.0053 (J)	0.0018 (J)	0.0042 (J)		<0.005			
4/6/2020	<0.005				0.00045 (J)				
4/7/2020		0.0011 (J)	<0.005	0.027		<0.005		0.0018 (J)	0.24
4/8/2020							<0.005		
8/17/2020					<0.005	<0.005	<0.005		
8/18/2020								0.0012 (J)	0.28
8/19/2020	0.006 (J)	0.0019 (J)	0.0036 (J)	0.007					
9/28/2020	<0.005			0.0058	<0.005		<0.005		
9/29/2020						<0.005		<0.005	
9/30/2020		0.0017 (J)	0.004 (J)						0.24
10/1/2020									
3/10/2021		0.0019 (J)	0.0054	0.0055		<0.005			
3/11/2021	0.0047 (J)								
3/12/2021					<0.005				0.16
3/15/2021							<0.005		
3/16/2021								<0.005	
9/21/2021	<0.005	<0.005	0.0054		<0.005	<0.005	<0.005		
9/22/2021								0.0014 (J)	
9/23/2021				0.0048 (J)					0.21
1/31/2022	<0.005				<0.005				
2/1/2022									
2/2/2022			0.01					0.0036 (J)	
2/3/2022		0.0029 (J)		0.0057		0.0016 (J)	0.0025 (J)		0.23
8/30/2022	0.00321 (J)	0.00253 (J)	0.00716		<0.005	<0.005		<0.005	
8/31/2022							<0.005		0.259
9/1/2022				0.00568					
1/31/2023	0.0025 (J)				<0.005				
2/1/2023		0.00295 (J)	0.0042 (J)			<0.005	<0.005		
2/2/2023				0.00433 (J)				0.00261 (J)	0.207

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
9/29/2000	0.094	<0.005	<0.005	<0.005				
11/21/2000	0.059	<0.005	<0.005	<0.005	<0.005			
1/20/2001	0.087	<0.005	<0.005	0.01	<0.005			
3/14/2001	0.075	<0.005	<0.005	<0.005	<0.005			
7/16/2001	0.11	<0.005	<0.005	<0.005	<0.005			
11/1/2001	0.098	<0.005	<0.005	<0.005	<0.005			
4/25/2002	0.071	<0.005	<0.005	<0.005	<0.005			
11/20/2002	0.15	<0.005	0.0096	<0.005	<0.005			
6/6/2003	1.2 (O)	<0.005	0.0076	<0.005	<0.005			
12/12/2003	0.27 (O)	<0.005	0.0058	<0.005	<0.005			
5/26/2004	0.12	<0.005	0.0068	<0.005	<0.005			
12/7/2004	0.098	<0.005	0.0066	<0.005	<0.005			
6/21/2005	0.065	<0.005	<0.005	<0.005	<0.005			
12/12/2005	0.081	<0.005	<0.005	<0.005	<0.005			
4/4/2006	0.077							
6/27/2006	0.071	<0.005	<0.005	<0.005	<0.005			
8/30/2006	0.08							
12/4/2006	0.085	<0.005	<0.005	<0.005	<0.005			
2/15/2007	0.09							
6/23/2007	0.12	<0.005	<0.005	<0.005	<0.005			
9/11/2007	0.088							
12/11/2007	0.088	<0.005	<0.005	<0.005	<0.005			
3/11/2008	0.071							
6/23/2008				<0.005				
6/24/2008	0.097	<0.005	0.005		<0.005			
11/3/2008	0.089							
12/4/2008				<0.005	<0.005			
12/5/2008	0.092	<0.005	<0.005					
3/25/2009	0.095							
7/7/2009			<0.005					
7/8/2009	0.11	<0.005		<0.005	<0.005			
9/14/2009	0.099							
12/20/2009	0.1				<0.005			
12/21/2009		<0.005	<0.005	<0.005				
3/4/2010	0.074							
6/20/2010				<0.005	<0.005			
6/21/2010	0.056	<0.005	0.018 (O)			0.29	<0.005	0.013 (O)
9/14/2010	0.067							
1/6/2011					<0.005			
1/7/2011	0.066	<0.005	<0.005	<0.005		0.2	<0.005	<0.005
4/15/2011	0.08							
7/7/2011	0.054					<0.005		
7/8/2011		<0.005	<0.005	<0.005		0.19	<0.005	<0.005
9/25/2011	0.085							
1/17/2012					<0.005			
1/18/2012	0.089	<0.005	<0.005	<0.005		0.058	<0.005	<0.005
4/4/2012	0.0473							
7/9/2012					<0.005			
7/10/2012	0.07	<0.005	0.0052	<0.005		0.18	<0.005	<0.005
10/9/2012	0.088							
1/17/2013					<0.005			
1/18/2013	0.063	<0.005	<0.005	<0.005		0.22	<0.005	0.0061

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
4/5/2013	0.06							
7/16/2013								
7/17/2013	0.063	<0.005	<0.005	<0.005	<0.005	0.45	<0.005	<0.005
10/11/2013	0.059							
1/13/2014					<0.005			
1/14/2014	0.077	<0.005	<0.005	<0.005		0.52	<0.005	0.006
4/3/2014	0.091							
7/8/2014								
7/9/2014	0.08	<0.005	0.0023 (J)	<0.005	<0.005			<0.005
7/10/2014						0.4	0.0027 (J)	
10/24/2014	0.073							
1/12/2015			0.0028 (J)			0.43		
1/13/2015					<0.005			
1/14/2015	0.079	<0.005		<0.005			<0.005	<0.005
5/10/2015								
5/11/2015	0.058							
7/16/2015	0.068		<0.005		<0.005			
7/17/2015				<0.005				<0.005
7/18/2015		<0.005				0.26	<0.005	
10/6/2015	0.078							
1/17/2016	0.089				<0.005	0.34		0.0065
1/18/2016		<0.005	<0.005	<0.005			<0.005	
4/26/2016	0.0731							
7/26/2016								
7/27/2016					<0.005			
7/28/2016	0.0627			<0.005		0.209		<0.005
7/29/2016		0.0009 (J)	0.0014 (J)				0.002 (J)	
8/30/2016								
8/31/2016				<0.005	<0.005		0.0017 (J)	
9/1/2016	0.0551	<0.005	0.0033 (J)			0.215		0.0039 (J)
10/24/2016								
10/25/2016	0.0466					0.307		<0.005
10/26/2016		<0.005	0.0016 (J)		<0.005		<0.005	
10/27/2016				<0.005				
1/3/2017								
1/4/2017	0.0444					0.311	<0.005	<0.005
1/5/2017		<0.005			<0.005			
1/6/2017			<0.005	<0.005				
4/3/2017								
4/4/2017			0.0021 (J)		<0.005	0.317		0.0031 (J)
4/5/2017	0.0591	0.0011 (J)						
4/6/2017				<0.005			0.0006 (J)	
7/10/2017								
7/11/2017						0.299	0.0012 (J)	
7/12/2017	0.0776		0.0015 (J)	<0.005				
7/13/2017		0.0016 (J)			<0.005			<0.005
10/2/2017						0.216		
10/3/2017	0.0813				<0.005			<0.005
10/4/2017		0.0019 (J)	0.0018 (J)	<0.005			0.0025 (J)	
1/9/2018								0.0033 (J)
1/10/2018	0.085				0.0006 (J)	0.347		
1/11/2018		0.0015 (J)	0.0015 (J)	<0.005			0.0006 (J)	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWB-4R	GWC-9	GWC-2	GWC-20	GWC-22	GWC-21
7/9/2018						0.37		
7/10/2018	0.067				<0.005			0.0027 (J)
7/11/2018		0.00082 (J)	0.00095 (J)	<0.005			0.0011 (J)	
1/16/2019		<0.005	0.0024 (J)					
1/17/2019	0.079							0.0022 (J)
1/18/2019				<0.005			<0.005	
1/21/2019					<0.005	0.44		
3/25/2019			0.0029 (J)			0.41		
3/26/2019	0.089	0.0015 (J)						0.0045 (J)
3/27/2019				<0.005			<0.005	
7/30/2019					0.00039 (J)			
8/26/2019								
8/27/2019			0.0023 (J)		<0.005		0.00044 (J)	
8/28/2019	0.091	0.0011 (J)		<0.005		0.43		0.002 (J)
10/7/2019								
10/8/2019	0.088							0.0028 (J)
10/9/2019		0.0011 (J)	0.0024 (J)	<0.005	<0.005	0.35	<0.005	
4/6/2020								
4/7/2020	0.091		0.0027 (J)				0.00043 (J)	<0.005
4/8/2020		0.0013 (J)		0.00084 (J)	0.00094 (J)	0.33		
8/17/2020								
8/18/2020	0.045	<0.005			<0.005	0.3	<0.005	0.0059
8/19/2020			0.0033 (J)	<0.005				
9/28/2020								
9/29/2020					<0.005			
9/30/2020	0.044	0.0012 (J)				0.31	<0.005	0.0029 (J)
10/1/2020			0.0027 (J)	<0.005				
3/10/2021			0.0025 (J)	<0.005			<0.005	
3/11/2021		0.0009 (J)						
3/12/2021						0.27		
3/15/2021					<0.005			
3/16/2021	0.064							0.0098
9/21/2021			0.0027 (J)				<0.005	
9/22/2021	0.081	<0.005		<0.005	<0.005	0.23		<0.005
9/23/2021								
1/31/2022								
2/1/2022	0.095	<0.005				0.22		0.02
2/2/2022			0.0036 (J)	<0.005	<0.005			
2/3/2022							<0.005	
8/30/2022			0.0049 (J)			0.465		0.0271
8/31/2022		<0.005					<0.005	
9/1/2022	0.0987			<0.005	<0.005			
1/31/2023								
2/1/2023	0.115	<0.005		<0.005		0.389		
2/2/2023			0.00556		<0.005		<0.005	0.0323

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
9/29/2000	0.11	0.11	0.076	<0.005	0.075	0.16	0.1	0.044	0.16
11/21/2000	0.12	0.15	0.075	0.01	0.072	0.17	0.082	0.047	0.21
1/20/2001	0.11	0.1	0.053	<0.005	0.086	0.16	0.083	0.051	0.23
3/14/2001	0.11	0.095	0.055	0.01	0.088	0.17	0.075	0.048	0.22
7/16/2001	0.11	0.28 (O)	0.041	<0.005	0.084	0.19	0.091	0.054	0.22
11/1/2001	0.11	0.16	0.045	<0.005	0.13	0.18	0.068	0.063	0.23
4/25/2002	0.058	0.054	0.055	<0.005	0.24 (O)	0.15	0.066	0.032	0.15
6/6/2003	0.19	0.063	0.48 (O)	0.028	0.28 (O)	0.13	0.085	0.046	0.13
12/12/2003	0.1	0.041	0.13 (O)	0.019	0.27 (O)	0.18	0.072	0.034	0.034
5/26/2004	0.084	0.059	0.055	<0.005	0.31 (O)	0.17	0.055	0.035	0.13
12/7/2004	0.094	0.076	0.072	0.009	0.46 (O)	0.19	0.066	0.024	0.13
6/21/2005	0.089	0.042	0.061	0.0089	0.053	0.18	0.033	0.039	0.07
12/12/2005	0.089	0.048	0.047	0.026	0.1	0.17	0.034	0.042	0.04
4/4/2006		0.05	0.042						
6/27/2006	0.096	0.036	0.042	0.029	0.098	0.17	0.029	0.033	0.041
8/30/2006		0.059	0.05						
12/4/2006	0.092	0.062	0.044	0.017	0.068	0.21	0.02	0.04	0.048
2/15/2007		0.079	0.041						
6/23/2007	0.08	0.03	0.044	0.014	0.042	0.17	0.017	0.044	0.12
9/11/2007		0.053	0.04						
12/11/2007	0.067	0.075	0.0035	0.011	0.04	0.18	0.013	0.049	0.12
3/11/2008		0.052	0.034						
6/23/2008	0.056			0.018	0.041		0.012		
6/24/2008		0.039	0.042			0.14		0.038	0.17
11/3/2008		0.082	0.049						
12/4/2008	0.054	0.079		0.019	0.035		0.011		
12/5/2008			0.05			0.19		0.06	0.093
3/25/2009		0.093	0.052						
7/7/2009	0.034							0.043	0.06
7/8/2009		0.039	0.046	0.011	0.036	0.2	0.012		
9/14/2009		0.061	0.048						
12/20/2009	0.034	0.088	0.062					0.065	
12/21/2009				0.01	0.028	0.23	0.011		0.11
3/4/2010		0.077	0.058						
6/20/2010	0.062	0.075		0.0081	0.025		0.0089	0.095	0.11
6/21/2010			0.041			0.25			
9/14/2010		0.093	0.036						
1/6/2011				0.012			0.014	0.093	
1/7/2011	0.039	0.13	0.054		0.037	0.21			0.025
4/15/2011		0.086	0.049						
7/7/2011	0.036	0.051	0.063	0.015	0.039		0.018	0.095	0.025
7/8/2011						0.13			
9/25/2011		0.056	0.037						
1/17/2012	0.041	0.052		0.0086	0.045		0.23	0.1	
1/18/2012			0.034			0.26			0.03
4/4/2012		0.0519	0.0446						
7/9/2012	0.15	0.048		0.01	0.032		0.17	0.11	
7/10/2012			0.033			0.19			0.028
10/9/2012		0.065	0.041						
1/17/2013				0.014	0.033		0.2	0.12	
1/18/2013	0.15	0.045	0.036			0.17			0.058
4/5/2013		0.047	0.036						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
7/16/2013				0.012	0.027		0.11	0.081	
7/17/2013	0.13	0.032	0.054			0.18			0.086
10/11/2013		0.028	0.052						
1/13/2014	0.16			0.015	0.027		0.083	0.096	
1/14/2014		0.036	0.051			0.18			0.1
4/3/2014		0.038	0.047						
7/8/2014				0.017	0.037		0.066		
7/9/2014	0.11	0.03	0.08			0.16		0.066	0.082
7/10/2014									
10/24/2014		0.025	0.072						
1/12/2015									
1/13/2015	0.083			0.019	0.023		0.053	0.068	
1/14/2015		0.04	0.047			0.16			0.094
5/10/2015		0.026							
5/11/2015			0.053						
7/16/2015	0.094		0.059	0.022	0.03		0.052	0.07	
7/17/2015		0.029							0.11
7/18/2015						0.012			
10/6/2015		0.03	0.053						
1/17/2016		0.038	0.056					0.062	
1/18/2016	0.22			0.026	0.032	0.13			0.11
1/19/2016							0.048		
4/26/2016		0.025	0.0721						
7/26/2016				0.0236			0.051		
7/27/2016	0.192	0.0248			0.0191			0.0417	
7/28/2016			0.0534						0.105
7/29/2016						0.181			
8/30/2016								0.0545	0.106
8/31/2016				0.0273	0.019		0.0565		
9/1/2016	0.415 (O)	0.0346	0.0445			0.203			
10/24/2016									
10/25/2016	0.173	0.0248	0.0464					0.0504	
10/26/2016				0.0238	0.0197	0.177	0.0591		0.107
10/27/2016									
1/3/2017									
1/4/2017			0.0379		0.0174		0.0598	0.0534	
1/5/2017		0.0245		0.0218		0.142			0.107
1/6/2017	0.167								
4/3/2017									
4/4/2017		0.0342						0.0549	
4/5/2017			0.0534		0.0174	0.106			
4/6/2017	0.136			0.0204			0.0813		0.111
7/10/2017					0.0172				
7/11/2017		0.0276					0.0302		
7/12/2017			0.0944	0.0161				0.0614	0.106
7/13/2017	0.0891					0.0686			
10/2/2017		0.0274							
10/3/2017			0.135 (O)				0.103	0.0436	0.105
10/4/2017	0.113			0.0185	0.0162	0.0589			
1/9/2018	0.0901	0.0222							0.0969
1/10/2018			0.0603	0.0166				0.053	
1/11/2018					0.018	0.0412	0.166		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:19 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
7/9/2018		0.026							
7/10/2018			0.16 (O)					0.059	0.087
7/11/2018	0.065			0.019	0.014	0.049	0.12		
1/16/2019	0.062	0.028		0.019		0.063		0.054	0.013 (J)
1/17/2019			0.13		0.017		0.039		
1/18/2019									
1/21/2019									
3/25/2019	0.054								
3/26/2019		0.034	0.14	0.026		0.025		0.055	0.012 (J)
3/27/2019					0.017		0.053		
7/30/2019									
8/26/2019	0.11								
8/27/2019		0.067		0.024	0.017		0.12	0.054	0.013
8/28/2019			0.09			0.026			
10/7/2019									
10/8/2019	0.1	0.085	0.13	0.024			0.13		
10/9/2019					0.019	0.032		0.058	0.014 (J)
4/6/2020	0.072								
4/7/2020		0.073	0.13		0.017		0.14	0.05	0.01 (J)
4/8/2020				0.027		0.055			
8/17/2020				0.024	0.018				
8/18/2020		0.028	0.32			0.074	0.12		
8/19/2020	0.1							0.057	0.064
9/28/2020	0.095			0.029				0.051	
9/29/2020		0.026			0.018		0.14		
9/30/2020			0.14			0.035			0.092
10/1/2020									
3/10/2021					0.028		0.13	0.052	0.027
3/11/2021	0.07					0.044			
3/12/2021									
3/15/2021				0.034					
3/16/2021		0.037	0.16						
9/21/2021	0.073			0.037	0.023		0.12		0.077
9/22/2021		0.11	0.26			0.058			
9/23/2021								0.062	
1/31/2022	0.1								
2/1/2022			0.23			0.055			
2/2/2022		0.1							0.026
2/3/2022				0.038	0.025		0.17	0.051	
8/30/2022	0.133	0.0773			0.0275				0.0266
8/31/2022				0.0379		0.0375	0.115		
9/1/2022			0.165					0.0583	
1/31/2023	0.126								
2/1/2023			0.163	0.0367	0.0256	0.0262	0.146		0.0233
2/2/2023		0.0617						0.0466	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
9/29/2000	0.22	0.16	0.093	0.16	0.028				
11/21/2000	0.13	0.16	0.095		0.035	0.046			
1/20/2001	0.19	0.21	0.089	0.18	0.032	0.036			
3/14/2001	0.27	0.18	0.088	0.14	0.036	0.03			
7/16/2001	0.37	0.18	0.096	0.14	0.036	0.032			
11/1/2001	0.61 (O)	0.15	0.094	0.14	0.036	0.029			
4/25/2002	0.19	0.16	0.085	0.088	0.045	0.021			
6/6/2003	0.72 (O)	0.29	0.09	0.14	0.083 (O)	0.032			
12/12/2003	0.054	0.18	0.084	0.13	0.094 (O)	0.021			
5/26/2004	0.18	0.16	0.08	0.09	0.034	0.035			
12/7/2004	0.24	0.16	0.098	0.11	0.042	0.031			
6/21/2005	0.2	0.15	0.084	0.084	0.039	0.028			
12/12/2005	0.074	0.15	0.07	0.1	0.043	0.024			
4/4/2006				0.089					
6/27/2006	0.075	0.19	0.083	0.1	0.031	0.03			
8/30/2006				0.12					
12/4/2006	0.092	0.26	0.072	0.086	0.043	0.031			
2/15/2007				0.088					
6/23/2007	0.089	0.24	0.087	0.089	0.031	0.037			
9/11/2007				0.092					
12/11/2007	0.072	0.21	0.082	0.077	0.044	0.034			
3/11/2008				0.082					
6/23/2008			0.1	0.086					
6/24/2008	0.049	0.13			0.057	0.038			
11/3/2008				0.088					
12/4/2008			0.12	0.081		0.038			
12/5/2008	0.067	0.12			0.041				
3/25/2009				0.069					
7/7/2009	0.04	0.17		0.078					
7/8/2009			0.14		0.058	0.053			
9/14/2009				0.079					
12/20/2009				0.081	0.062	0.047			
12/21/2009	0.044	0.2	0.15						
3/4/2010				0.065					
6/20/2010	0.036		0.21	0.078	0.03	0.046			
6/21/2010		0.22					0.11	0.062	0.16
9/14/2010				0.076					
1/6/2011	0.075					0.063			
1/7/2011		0.12	0.2	0.074	0.049		0.12	0.039	0.095
4/15/2011				0.065					
7/7/2011	0.13			0.081	0.05			0.06	
7/8/2011		0.15	0.18				0.094	0.043	0.1
9/25/2011				0.078					
1/17/2012	0.21			0.082	0.044	0.06			
1/18/2012		0.15	0.18				0.087	0.042	0.12
4/4/2012				0.0861					
7/9/2012	0.2				0.045	0.05			
7/10/2012		0.14	0.16	0.082			0.1	0.039	0.097
10/9/2012				0.09					
1/17/2013	0.19					0.058			
1/18/2013		0.15	0.19	0.083	0.049		0.078	0.04	0.1
4/5/2013				0.078					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
7/16/2013	0.076								
7/17/2013		0.14	0.17	0.083	0.039	0.041	0.062	0.055	0.069
10/11/2013				0.078					
1/13/2014	0.14				0.038	0.058			
1/14/2014		0.16	0.2	0.081			0.073	0.059	0.086
4/3/2014				0.077					
7/8/2014									
7/9/2014	0.12	0.12	0.16	0.073	0.031	0.048			0.065
7/10/2014							0.13	0.067	
10/24/2014				0.087					
1/12/2015		0.13						0.061	
1/13/2015	0.13				0.041	0.048			
1/14/2015			0.17	0.079			0.065		0.084
5/10/2015				0.076					
5/11/2015									
7/16/2015	0.12	0.11			0.041	0.048			
7/17/2015			0.18	0.061					0.071
7/18/2015							0.073	0.13	
10/6/2015				0.067					
1/17/2016					0.048	0.049		0.08	0.079
1/18/2016	0.12	0.095	0.2	0.068			0.062		
1/19/2016									
4/26/2016				0.0596					
7/26/2016									
7/27/2016	0.112				0.0487	0.0796			
7/28/2016			0.234	0.0701				0.164	0.0626
7/29/2016		0.0883					0.0575		
8/30/2016	0.135			0.0687					
8/31/2016			0.284			0.0429	0.0693		
9/1/2016		0.123			0.0403			0.0976	0.077
10/24/2016				0.07					
10/25/2016					0.0329			0.0702	0.0217
10/26/2016	0.103	0.0863				0.113 (O)	0.0966		
10/27/2016			0.244						
1/3/2017	0.118			0.061					
1/4/2017							0.0975	0.0999	0.0617
1/5/2017					0.0392	0.0526			
1/6/2017		0.0758	0.305						
4/3/2017				0.0612	0.0439				
4/4/2017		0.091				0.0503		0.136	0.0761
4/5/2017									
4/6/2017	0.162		0.249				0.064		
7/10/2017									
7/11/2017				0.0624	0.051		0.0778	0.145	
7/12/2017	0.157	0.0941	0.256						
7/13/2017						0.0529			0.0428
10/2/2017				0.0618	0.047			0.148	
10/3/2017	0.127					0.057			0.0376
10/4/2017		0.0994	0.356				0.156		
1/9/2018				0.0574	0.0431				0.0704
1/10/2018	0.158					0.0527		0.0788	
1/11/2018		0.088	0.226				0.0702		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-22	GWC-20	GWC-21
7/9/2018				0.056				0.087	
7/10/2018	0.31				0.047	0.054			0.061
7/11/2018		0.071	0.29				0.12		
1/16/2019	0.054	0.083		0.062					
1/17/2019					0.042				0.061
1/18/2019			0.21				0.052		
1/21/2019						0.05		0.069	
3/25/2019		0.077		0.064				0.085	
3/26/2019	0.057				0.047				0.084
3/27/2019			0.19				0.057		
7/30/2019						0.052			
8/26/2019				0.065					
8/27/2019		0.076			0.049	0.053	0.097		
8/28/2019	0.1		0.17					0.078	0.063
10/7/2019				0.069					
10/8/2019					0.057				0.079
10/9/2019	0.13	0.076	0.18			0.05	0.065	0.078	
4/6/2020				0.057					
4/7/2020	0.098	0.09			0.033		0.1		0.054
4/8/2020			0.15			0.061		0.19	
8/17/2020				0.051					
8/18/2020					0.03	0.05	0.085	0.38	0.18
8/19/2020	0.1	0.076	0.17						
9/28/2020				0.05					
9/29/2020						0.049			
9/30/2020	0.16				0.034		0.045	0.35	0.19
10/1/2020		0.077	0.15						
3/10/2021	0.096	0.07	0.15				0.049		
3/11/2021									
3/12/2021				0.052	0.038			0.34	
3/15/2021						0.053			
3/16/2021									0.18
9/21/2021	0.076	0.098		0.049			0.036		
9/22/2021			0.15			0.047		0.42	0.046
9/23/2021					0.062				
1/31/2022				0.051					
2/1/2022								0.36	0.24
2/2/2022		0.17	0.15			0.052			
2/3/2022	0.062				0.061		0.038		
8/30/2022	0.051	0.134		0.0512				0.21	0.191
8/31/2022					0.055		0.0741		
9/1/2022			0.151			0.0508			
1/31/2023				0.0499					
2/1/2023	0.101		0.128					0.194	
2/2/2023		0.101			0.0557	0.0461	0.0456		0.196

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-15	GWC-14	GWC-13	GWC-17	GWC-12	GWC-11	GWC-1	GWB-6R
9/29/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.016
11/21/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.023
1/20/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.021
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022
4/25/2002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
11/20/2002		0.0058	0.014	<0.01	<0.01	0.002	0.006	<0.01	0.024
6/6/2003	0.037	0.0068	<0.01	0.003	<0.01	<0.01	0.0082	0.005	0.021
12/12/2003	0.0044	0.0041	<0.01	<0.01	0.036 (O)	<0.01	0.0023	<0.01	0.0066
5/26/2004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
12/7/2004	<0.01	0.0026	<0.01	<0.01	0.0021	<0.01	<0.01	<0.01	0.013
6/21/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0067
12/12/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.002	0.0033
4/4/2006			<0.01						
6/27/2006	<0.01	0.0013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0047
8/30/2006			<0.01						
12/4/2006	0.0015	<0.01	0.0042	0.0017	<0.01	0.0032	0.0021	<0.01	0.0084
2/15/2007			<0.01						
6/23/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0017	<0.01	0.01
9/11/2007			<0.01						
12/11/2007	0.0016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0049
3/11/2008			<0.01						
6/23/2008	0.0019		<0.01	<0.01		0.0016	<0.01		
6/24/2008		0.0014	<0.01		<0.01			<0.01	0.032 (O)
11/3/2008			<0.01						
12/4/2008	<0.01		<0.01	<0.01		<0.01	<0.01		
12/5/2008		<0.01			<0.01			<0.01	0.009
3/25/2009			<0.01						
7/7/2009	0.0037							0.0013	0.0044
7/8/2009		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
9/14/2009			<0.01						
12/20/2009	0.0016	<0.01	<0.01					<0.01	
12/21/2009				<0.01	<0.01	<0.01	<0.01		0.0055
3/4/2010			<0.01						
6/20/2010	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	0.002
6/21/2010					<0.01				
9/14/2010			<0.01						
1/6/2011				<0.01			<0.01	<0.01	
1/7/2011	0.0033	<0.01	0.0016		<0.01	<0.01			0.0039
4/15/2011			0.0034						
7/7/2011	0.0044	<0.01	<0.01	0.0019		<0.01	0.0023	<0.01	0.0031
7/8/2011					0.0013				
9/25/2011			0.0013						
1/17/2012	0.0038	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	
1/18/2012					<0.01				0.0023
4/4/2012			<0.01						
7/9/2012	0.022	<0.01	<0.01	<0.01		<0.01	0.0017	<0.01	
7/10/2012					<0.01				0.0022
10/9/2012			0.0019						
1/17/2013				<0.01		<0.01	<0.01	<0.01	
1/18/2013	0.034	<0.01	0.0017		<0.01				<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-15	GWC-14	GWC-13	GWC-17	GWC-12	GWC-11	GWC-1	GWB-6R
4/5/2013			0.0019						
7/16/2013				<0.01		<0.01	<0.01	<0.01	
7/17/2013	0.032	<0.01	0.0017		<0.01				<0.01
10/11/2013			0.0013						
1/13/2014	0.04	<0.01		<0.01		<0.01	<0.01	<0.01	
1/14/2014			0.001		<0.01				0.0013
4/3/2014			0.0031						
7/8/2014				<0.01		<0.01	<0.01		
7/9/2014	0.036	<0.01	0.0012 (J)		<0.01			0.0011 (J)	<0.01
7/10/2014									
10/24/2014			<0.01						
1/12/2015									
1/13/2015	0.03	<0.01		<0.01		<0.01	<0.01	<0.01	
1/14/2015			0.0013		<0.01				0.0015
5/10/2015			<0.01						
5/11/2015									
7/16/2015	0.039	<0.01		<0.01		0.001 (J)	<0.01	0.0011 (J)	
7/17/2015			0.001 (J)						0.0011 (J)
7/18/2015					<0.01				
10/6/2015			<0.01						
1/17/2016		<0.01	0.0012 (J)					<0.01	
1/18/2016	0.068			<0.01	<0.01	<0.01			0.0011 (J)
1/19/2016							<0.01		
4/26/2016			<0.01						
7/26/2016				<0.01			0.0005 (J)		
7/27/2016	0.05	0.0007 (J)	0.0008 (J)			0.0014 (J)		0.0016 (J)	
7/28/2016									0.001 (J)
7/29/2016					0.0009 (J)				
8/30/2016								0.0015 (J)	0.0013 (J)
8/31/2016				0.0011 (J)		0.0012 (J)	0.001 (J)		
9/1/2016	0.119 (O)	0.0011 (J)	0.0015 (J)		0.0011 (J)				
10/24/2016									
10/25/2016	0.0519	<0.01	<0.01					0.0018 (J)	
10/26/2016				<0.01	<0.01	0.0012 (J)	<0.01		0.0014 (J)
10/27/2016									
1/3/2017									
1/4/2017						0.0012 (J)	<0.01	0.0021 (J)	
1/5/2017		<0.01	0.001 (J)	<0.01	0.0012 (J)				0.002 (J)
1/6/2017	0.0536								
4/3/2017		0.0015 (J)							
4/4/2017			0.001 (J)					0.002 (J)	
4/5/2017					0.0015 (J)	0.0013 (J)			
4/6/2017	0.0447 (J)			0.0011 (J)			0.0007 (J)		0.0034 (J)
7/10/2017						0.0014 (J)			
7/11/2017		0.0013 (J)	0.0008 (J)				0.0006 (J)		
7/12/2017				0.0007 (J)				0.0021 (J)	0.0024 (J)
7/13/2017	0.0269				0.0012 (J)				
10/2/2017		0.0013 (J)	0.0009 (J)						
10/3/2017							0.0007 (J)	0.0014 (J)	0.0022 (J)
10/4/2017	0.0378			0.0008 (J)	0.0055 (J)	0.0011 (J)			
1/9/2018	0.0283 (J)	0.0012 (J)	0.0006 (J)						0.0019 (J)
1/10/2018				0.0007 (J)				0.0017 (J)	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-15	GWC-14	GWC-13	GWC-17	GWC-12	GWC-11	GWC-1	GWB-6R
1/11/2018					0.0009 (J)	0.001 (J)	0.0098 (J)		
7/9/2018			<0.01						
7/10/2018		<0.01						0.0021 (J)	0.0023 (J)
7/11/2018	0.018 (J)			0.0019 (J)	<0.01	<0.01	<0.01		
1/16/2019	0.018 (J)		<0.01	<0.01	<0.01			0.0021 (J)	0.018 (J)
1/17/2019		<0.01				0.0028 (J)	<0.01		
1/18/2019									
1/21/2019									
3/25/2019	0.017 (J)								
3/26/2019		<0.01	<0.01	<0.01	<0.01			0.0018 (J)	0.017 (J)
3/27/2019						<0.01	<0.01		
7/30/2019									
8/26/2019	0.024 (J)								
8/27/2019		0.0016 (J)	0.001 (J)	<0.01		0.00085 (J)	0.00092 (J)	0.0062 (J)	0.0097 (J)
8/28/2019					0.0013 (J)				
10/7/2019									
10/8/2019	0.021 (J)	0.0017 (J)	0.00053 (J)	<0.01			0.00091 (J)		
10/9/2019					0.00081 (J)	0.00081 (J)		0.0019 (J)	0.011 (J)
4/6/2020	0.015 (J)								
4/7/2020		0.0014 (J)	0.00074 (J)			0.00082 (J)	0.00094 (J)	0.0015 (J)	0.0094 (J)
4/8/2020				0.00058 (J)	0.00073 (J)				
8/17/2020				0.00077 (J)		0.001 (J)			
8/18/2020		0.0018 (J)	0.00059 (J)		0.0011 (J)		0.0015 (J)		
8/19/2020	0.015 (J)							0.0028 (J)	0.0037 (J)
9/28/2020	0.014 (J)			0.00062 (J)				0.0024 (J)	
9/29/2020			<0.01			0.00085 (J)	0.0011 (J)		
9/30/2020		0.0016 (J)			0.00096 (J)				0.0045 (J)
10/1/2020									
3/10/2021						0.00091 (J)	0.0013 (J)	0.0023 (J)	0.006
3/11/2021	0.02 (J)				0.0009 (J)				
3/12/2021		0.0031 (J)							
3/15/2021				<0.01					
3/16/2021			<0.01						
9/21/2021	0.013 (J)			<0.01		<0.01	<0.01		0.0035 (J)
9/22/2021			<0.01		<0.01				
9/23/2021		0.0013 (J)						0.0023 (J)	
1/31/2022	0.015 (J)								
2/1/2022					0.0014 (J)				
2/2/2022			<0.01						0.0033 (J)
2/3/2022		0.0016 (J)		<0.01		0.0018 (J)	0.0011 (J)	0.0019 (J)	
8/30/2022	0.0129		<0.01			<0.01			0.00356 (J)
8/31/2022		<0.01		<0.01	<0.01		<0.01		
9/1/2022								<0.01	
1/31/2023	0.0112								
2/1/2023				<0.01	<0.01	<0.01	<0.01		0.00365 (J)
2/2/2023		<0.01	<0.01					<0.01	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-16	GWC-2	GWC-21	GWC-20	GWC-22
9/29/2000	0.03	0.021	<0.01	<0.01	<0.01				
11/21/2000	<0.01	0.017	<0.01		<0.01	<0.01			
1/20/2001	0.028	0.03	<0.01	<0.01	<0.01	<0.01			
3/14/2001	0.052 (O)	0.019	<0.01	<0.01	<0.01	<0.01			
7/16/2001	0.08 (O)	0.029	<0.01	<0.01	<0.01	<0.01			
11/1/2001	0.13 (O)	0.021	<0.01	<0.01	<0.01	<0.01			
4/25/2002	0.021	0.03	<0.01	<0.01	<0.01	<0.01			
11/20/2002	0.053 (O)	0.038	0.014	0.0051	0.0041	<0.01			
6/6/2003	0.064 (O)	0.028	<0.01	0.014	0.063 (O)	<0.01			
12/12/2003	<0.01	0.027	<0.01	0.011	0.0059	<0.01			
5/26/2004	0.012	0.021	<0.01	<0.01	<0.01	<0.01			
12/7/2004	0.019	0.016	0.0039	<0.01	<0.01	<0.01			
6/21/2005	0.02	0.015	0.002	<0.01	<0.01	<0.01			
12/12/2005	<0.01	0.022	<0.01	<0.01	<0.01	<0.01			
4/4/2006				<0.01	<0.01				
6/27/2006	0.0015	0.027	<0.01	<0.01	<0.01	<0.01			
8/30/2006				<0.01	<0.01				
12/4/2006	0.0034	0.025	0.0019	<0.01	0.0036	<0.01			
2/15/2007				<0.01	<0.01				
6/23/2007	<0.01	0.023	0.0015	<0.01	0.0016	<0.01			
9/11/2007				<0.01	<0.01				
12/11/2007	<0.01	0.018	<0.01	<0.01	<0.01	<0.01			
3/11/2008				<0.01	<0.01				
6/23/2008			0.0015	<0.01					
6/24/2008	<0.01	0.022			<0.01	<0.01			
11/3/2008				<0.01	0.0025				
12/4/2008			<0.01	<0.01		<0.01			
12/5/2008	0.0016	0.023			<0.01				
3/25/2009				<0.01	<0.01				
7/7/2009	<0.01	0.012		<0.01					
7/8/2009			<0.01		<0.01	<0.01			
9/14/2009				<0.01	<0.01				
12/20/2009				<0.01	<0.01	<0.01			
12/21/2009	<0.01	0.019	<0.01						
3/4/2010				<0.01	<0.01				
6/20/2010	<0.01		0.0015	<0.01		<0.01			
6/21/2010		0.01			<0.01		0.0019	<0.01	<0.01
9/14/2010				<0.01	<0.01				
1/6/2011	0.0017					<0.01			
1/7/2011		0.023	<0.01	<0.01	0.0018		0.0017	0.0018	<0.01
4/15/2011				<0.01	<0.01				
7/7/2011	0.008			<0.01	<0.01			<0.01	
7/8/2011		0.017	<0.01				0.0023	0.0019	<0.01
9/25/2011				0.0021	<0.01				
1/17/2012	0.0082			<0.01		<0.01			
1/18/2012		0.0114	<0.01		<0.01		<0.01	<0.01	<0.01
4/4/2012				<0.01	<0.01				
7/9/2012	0.01					<0.01			
7/10/2012		0.014	<0.01	<0.01	<0.01		<0.01	0.0013	<0.01
10/9/2012				<0.01	0.0018				
1/17/2013	0.01					<0.01			
1/18/2013		0.015	<0.01	<0.01	<0.01		<0.01	0.0015	<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-16	GWC-2	GWC-21	GWC-20	GWC-22
4/5/2013				<0.01	<0.01				
7/16/2013	0.0061								
7/17/2013		0.011	<0.01	<0.01	<0.01	<0.01	0.0019	<0.01	<0.01
10/11/2013				<0.01	<0.01				
1/13/2014	0.002					<0.01			
1/14/2014		0.019	<0.01	<0.01	<0.01		<0.01	0	<0.01
4/3/2014				<0.01	<0.01				
7/8/2014									
7/9/2014	<0.01	0.012	0.0011 (J)	<0.01	<0.01	<0.01	<0.01		
7/10/2014								<0.01	<0.01
10/24/2014				<0.01	<0.01				
1/12/2015		0.016						<0.01	
1/13/2015	<0.01					<0.01			
1/14/2015			<0.01	<0.01	<0.01		<0.01		<0.01
5/10/2015				<0.01					
5/11/2015					<0.01				
7/16/2015	<0.01	0.0084			<0.01	<0.01			
7/17/2015			0.0013	<0.01			<0.01		
7/18/2015								<0.01	<0.01
10/6/2015				<0.01	<0.01				
1/17/2016					<0.01	<0.01	<0.01	<0.01	
1/18/2016	<0.01	0.014	<0.01	<0.01					<0.01
1/19/2016									
4/26/2016				<0.01	<0.01				
7/26/2016									
7/27/2016	0.0006 (J)					0.0008 (J)			
7/28/2016			0.0011 (J)	<0.01	0.0006 (J)		0.0005 (J)	0.0007 (J)	
7/29/2016		0.0077 (J)							0.0007 (J)
8/30/2016	<0.01			<0.01					
8/31/2016			0.0024 (J)			<0.01			<0.01
9/1/2016		0.015			0.0011 (J)		<0.01	<0.01	
10/24/2016				<0.01					
10/25/2016					<0.01		<0.01	<0.01	
10/26/2016	<0.01	0.0106				0.001 (J)			<0.01
10/27/2016			<0.01						
1/3/2017	0.001 (J)			<0.01					
1/4/2017					<0.01		<0.01	<0.01	<0.01
1/5/2017						<0.01			
1/6/2017		0.0098 (J)	<0.01						
4/3/2017				0.0004 (J)					
4/4/2017		0.0101				0.0008 (J)	0.0008 (J)	0.0011 (J)	
4/5/2017					0.001 (J)				
4/6/2017	0.0013 (J)		0.0019 (J)						0.0006 (J)
7/10/2017									
7/11/2017				0.0006 (J)				0.0009 (J)	0.0005 (J)
7/12/2017	0.0011 (J)	0.0096 (J)	0.0011 (J)		0.0011 (J)				
7/13/2017						0.0006 (J)	0.0006 (J)		
10/2/2017				<0.01				0.0009 (J)	
10/3/2017	0.0012 (J)				0.0009 (J)	<0.01	0.0005 (J)		
10/4/2017		0.0097 (J)	0.0011 (J)						0.0006 (J)
1/9/2018				<0.01			0.0007 (J)		
1/10/2018	0.0016 (J)				0.0007 (J)	<0.01		0.0008 (J)	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-16	GWC-2	GWC-21	GWC-20	GWC-22
1/11/2018		0.0109	0.001 (J)						<0.01
7/9/2018				<0.01				<0.01	
7/10/2018	0.0055 (J)				<0.01	<0.01	<0.01		
7/11/2018		0.0055 (J)	<0.01						<0.01
1/16/2019	<0.01	0.0024 (J)		<0.01					
1/17/2019					0.01 (J)		0.01		
1/18/2019			<0.01						<0.01
1/21/2019						<0.01		<0.01	
3/25/2019		0.002 (J)		<0.01				<0.01	
3/26/2019	0.072				<0.01		<0.01		
3/27/2019			<0.01						<0.01
7/30/2019						0.00065 (J)			
8/26/2019				0.001 (J)					
8/27/2019		0.0027 (J)				<0.01			0.00057 (J)
8/28/2019	0.0071 (J)		0.00089 (J)		0.0011 (J)		0.00087 (J)	0.00089 (J)	
10/7/2019				0.00052 (J)					
10/8/2019					0.00099 (J)		0.00065 (J)		
10/9/2019	0.012 (J)	0.002 (J)	0.0009 (J)			0.00049 (J)		0.0011 (J)	0.00072 (J)
4/6/2020				<0.01					
4/7/2020	0.0022 (J)	0.0028 (J)			<0.01		<0.01		0.00049 (J)
4/8/2020			0.0015 (J)			0.00069 (J)		0.001 (J)	
8/17/2020				0.00082 (J)					
8/18/2020					0.0012 (J)	<0.01	0.0012 (J)	0.0011 (J)	0.00056 (J)
8/19/2020	0.0012 (J)	0.0022 (J)	0.0013 (J)						
9/28/2020				0.00071 (J)					
9/29/2020						<0.01			
9/30/2020	0.0018 (J)				0.00098 (J)		0.00067 (J)	0.0013 (J)	0.00064 (J)
10/1/2020		0.002 (J)	0.0012 (J)						
3/10/2021	0.001 (J)	0.003 (J)	0.0011 (J)						<0.01
3/11/2021									
3/12/2021				0.00074 (J)				0.0014 (J)	
3/15/2021						0.0011 (J)			
3/16/2021					0.0012 (J)		0.00075 (J)		
9/21/2021	<0.01	0.0018 (J)		<0.01					<0.01
9/22/2021			<0.01		0.0018 (J)	<0.01	<0.01	0.0013 (J)	
9/23/2021									
1/31/2022				<0.01					
2/1/2022					<0.01		<0.01	0.0036 (J)	
2/2/2022		0.003 (J)	0.0012 (J)			<0.01			
2/3/2022	0.0014 (J)								<0.01
8/30/2022	<0.01	<0.01		<0.01			<0.01	<0.01	
8/31/2022									<0.01
9/1/2022			<0.01		<0.01	<0.01			
1/31/2023				<0.01					
2/1/2023	0.00655 (J)		<0.01		<0.01			0.00503 (J)	
2/2/2023		0.00502 (J)				<0.01	<0.01		<0.01

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14
9/29/2000	<0.002	0.0083	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	0.0052	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002		0.018 (O)	0.0086 (O)	0.0057 (J)	<0.002	<0.002	<0.002	<0.002	0.011 (O)
6/6/2003	0.037 (O)	0.015 (O)	<0.002	0.013	<0.002	0.0068	<0.002	0.0078	<0.002
12/12/2003	0.008	0.0072	<0.002	<0.002	<0.002	<0.002	<0.002	0.0055	<0.002
5/26/2004	<0.002	0.0055	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	0.0051	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006									<0.002
6/27/2006	<0.002	0.024 (O)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006									<0.002
12/4/2006	<0.002	0.023 (O)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007									<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007									<0.002
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008									<0.002
6/23/2008	<0.002		<0.002			<0.002	<0.002	<0.002	<0.002
6/24/2008		0.02 (O)		0.02	<0.002				<0.002
11/3/2008									<0.002
12/4/2008	<0.002		<0.002			<0.002	<0.002	<0.002	<0.002
12/5/2008		<0.002		<0.002	<0.002				
3/25/2009									<0.002
7/7/2009	<0.002	<0.002		<0.002	<0.002				
7/8/2009			<0.002			<0.002	<0.002	<0.002	<0.002
9/14/2009									<0.002
12/20/2009	<0.002				<0.002				<0.002
12/21/2009		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	
3/4/2010									<0.002
6/20/2010	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2010		<0.002							
9/14/2010									<0.002
1/6/2011					<0.002	<0.002		<0.002	
1/7/2011	<0.002	<0.002	<0.002	<0.002			<0.002		<0.002
4/15/2011									<0.002
7/7/2011	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/8/2011		<0.002	<0.002						
9/25/2011									<0.002
1/17/2012	<0.002				<0.002	<0.002	<0.002	<0.002	<0.002
1/18/2012		<0.002	<0.002	<0.002					
4/4/2012									<0.002
7/9/2012	<0.002				<0.002	<0.002	<0.002	<0.002	<0.002
7/10/2012		<0.002	<0.002	<0.002					
10/9/2012									<0.002
1/17/2013					<0.002	<0.002	<0.002	<0.002	
1/18/2013	<0.002	<0.002	<0.002	<0.002					<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14
4/5/2013									<0.002
7/16/2013					<0.002	<0.002	<0.002	<0.002	
7/17/2013	<0.002	<0.002	<0.002	<0.002					<0.002
10/11/2013									<0.002
1/13/2014	0.013				<0.002	<0.002	0.004	<0.002	
1/14/2014		0.005	<0.002	<0.002					<0.002
4/3/2014									<0.002
7/8/2014						<0.002	<0.002	<0.002	
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002	<0.002				<0.002
7/10/2014									
10/24/2014									<0.002
1/12/2015		<0.002							
1/13/2015	0.0057 (J)				<0.002	<0.002	<0.002	<0.002	
1/14/2015			<0.002	<0.002					<0.002
5/10/2015									<0.002
5/11/2015									
7/16/2015	0.009 (J)	<0.002			<0.002	<0.002	0.0044 (J)	<0.002	
7/17/2015			<0.002	<0.002					<0.002
7/18/2015									
10/6/2015									
1/17/2016					<0.002				<0.002
1/18/2016	0.0094 (J)	0.0055 (J)	<0.002	<0.002			0.0034 (J)	<0.002	
1/19/2016						<0.002			
4/26/2016									<0.002
7/26/2016						0.0001 (J)		<0.002	
7/27/2016	0.0058				<0.002		0.0001 (J)		<0.002
7/28/2016			<0.002	<0.002					
7/29/2016		0.003 (J)							
8/30/2016				<0.002	<0.002				
8/31/2016			0.0007 (J)			0.0002 (J)	0.0001 (J)	<0.002	
9/1/2016	0.0663 (O)	0.0166 (O)							<0.002
10/24/2016									
10/25/2016	0.0003 (J)				<0.002				<0.002
10/26/2016		0.0057		<0.002		0.0001 (J)	0.0001 (J)	<0.002	
10/27/2016			<0.002						
1/3/2017									
1/4/2017					<0.002	0.0002 (J)	<0.002		
1/5/2017				0.0003 (J)				0.0002 (J)	<0.002
1/6/2017	0.006	0.0053	<0.002						
4/3/2017									
4/4/2017		0.0092			<0.002				0.0001 (J)
4/5/2017							0.0003 (J)		
4/6/2017	0.0109		0.0001 (J)	0.0002 (J)		0.0003 (J)		0.0005 (J)	
7/10/2017							0.0003 (J)		
7/11/2017						0.0002 (J)			8E-05 (J)
7/12/2017		0.006	<0.002	0.0002 (J)	<0.002			0.0005 (J)	
7/13/2017	0.007								
10/2/2017									0.0001 (J)
10/3/2017				0.0001 (J)	<0.002	0.0003 (J)			
10/4/2017	0.0042 (J)	0.0057	9E-05 (J)				0.0001 (J)	0.0007 (J)	
1/9/2018	0.0098			0.0003 (J)					<0.002
1/10/2018					0.0001 (J)			0.0009 (J)	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14
1/11/2018		0.0085	0.0002 (J)			0.0003 (J)	0.0002 (J)		
7/9/2018									<0.002
7/10/2018				<0.002	<0.002				
7/11/2018	0.0028 (J)	0.0029 (J)	<0.002			<0.002	<0.002	0.0015 (J)	
1/16/2019	<0.025 (O)	<0.002		<0.002	<0.002			0.00061 (J)	<0.002
1/17/2019						0.00028 (J)	<0.002		
1/18/2019			<0.002						
1/21/2019									
3/25/2019	0.0019 (J)	<0.002							
3/26/2019				<0.002	<0.002			<0.002	<0.002
3/27/2019			<0.002			0.00029 (J)	<0.002		
7/30/2019									
8/26/2019	0.013 (J)								
8/27/2019		0.001 (J)		0.0011 (J)	<0.002	0.00021 (J)	<0.002	0.0001 (J)	0.00051 (J)
8/28/2019			6.1E-05 (J)						
10/7/2019									
10/8/2019	0.0098 (J)					0.00028 (J)		0.00013 (J)	<0.002
10/9/2019		0.00041 (J)	<0.002	0.00033 (J)	<0.002		6.6E-05 (J)		
4/6/2020	0.0024 (J)								
4/7/2020		0.00073 (J)		0.00063 (J)	0.00012 (J)	0.00036 (J)	8.1E-05 (J)		<0.002
4/8/2020			0.00021 (J)					0.00017 (J)	
8/17/2020							4.9E-05 (J)	7.6E-05 (J)	
8/18/2020						0.00035 (J)			<0.002
8/19/2020	0.0044 (J)	0.00048 (J)	9.6E-05 (J)	0.00014 (J)	<0.002				
9/28/2020	0.0043 (J)				4.3E-05 (J)			6.4E-05 (J)	
9/29/2020						0.00032 (J)	3.7E-05 (J)		<0.002
9/30/2020				8E-05 (J)					
10/1/2020		0.00026 (J)	3.8E-05 (J)						
3/10/2021		0.0003 (J)	0.00012 (J)	9.6E-05 (J)	0.0001 (J)	0.00042 (J)	6.8E-05 (J)		
3/11/2021	0.0079								
3/12/2021									
3/15/2021								0.00013 (J)	
3/16/2021									<0.002
9/21/2021	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002	
9/22/2021			<0.002						<0.002
9/23/2021					<0.002				
1/31/2022	<0.002								
2/1/2022									
2/2/2022		<0.002	<0.002	<0.002					<0.002
2/3/2022					<0.002	<0.002	<0.002	<0.002	
8/30/2022	0.0022	<0.002		<0.002			<0.002		<0.002
8/31/2022						<0.002		<0.002	
9/1/2022			<0.002		<0.002				
1/31/2023	0.00126 (J)								
2/1/2023			<0.002	<0.002		<0.002	<0.002	<0.002	
2/2/2023		<0.002			<0.002				<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-16	GWC-15	GWC-17	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21
9/29/2000	<0.002	<0.002	<0.002	<0.002	0.017 (O)				
11/21/2000		<0.002	<0.002	<0.002	<0.002	0.0069			
1/20/2001	<0.002	<0.002	<0.002	<0.002	0.011	<0.002			
3/14/2001	<0.002	<0.002	<0.002	<0.002	0.026 (O)	<0.002			
7/16/2001	<0.002	<0.002	<0.002	<0.002	0.043 (O)	<0.002			
11/1/2001	<0.002	<0.002	<0.002	<0.002	0.075 (O)	<0.002			
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/20/2002	<0.002	<0.002	<0.002	<0.002	0.057 (O)	<0.002			
6/6/2003	0.016 (O)	0.099 (O)	<0.002	<0.002	0.16 (O)	<0.002			
12/12/2003	0.0095	0.017 (O)	0.0065	<0.002	<0.002	<0.002			
5/26/2004	<0.002	<0.002	<0.002	<0.002	0.011	<0.002			
12/7/2004	<0.002	<0.002	<0.002	<0.002	0.038 (O)	<0.002			
6/21/2005	<0.002	<0.002	<0.002	<0.002	0.036 (O)	<0.002			
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2006	<0.002	<0.002							
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
8/30/2006	<0.002	<0.002							
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2007	<0.002	<0.002							
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
9/11/2007	<0.002	<0.002							
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
3/11/2008	<0.002	<0.002							
6/23/2008	<0.002								
6/24/2008		<0.002	<0.002	<0.002	<0.002	<0.002			
11/3/2008	<0.002	<0.002							
12/4/2008	<0.002						<0.002		
12/5/2008		<0.002	<0.002	<0.002	<0.002				
3/25/2009	<0.002	<0.002							
7/7/2009	<0.002				<0.002				
7/8/2009		<0.002	<0.002	<0.002		<0.002			
9/14/2009	<0.002	<0.002							
12/20/2009	<0.002	<0.002	<0.002			<0.002			
12/21/2009				<0.002	<0.002				
3/4/2010	<0.002	<0.002							
6/20/2010	<0.002		<0.002		<0.002	<0.002			
6/21/2010		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
9/14/2010	<0.002	<0.002							
1/6/2011					<0.002	<0.002			
1/7/2011	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
4/15/2011	<0.002	<0.002							
7/7/2011	<0.002	<0.002	<0.002		<0.002	<0.002			
7/8/2011				<0.002		<0.002	<0.002	<0.002	<0.002
9/25/2011	<0.002	<0.002							
1/17/2012	<0.002		<0.002		<0.002	<0.002			
1/18/2012		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/4/2012	<0.002	<0.002							
7/9/2012			<0.002		<0.002	<0.002			
7/10/2012	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
10/9/2012	<0.002	<0.002							
1/17/2013					<0.002	<0.002			
1/18/2013	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-16	GWC-15	GWC-17	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21
4/5/2013	<0.002	<0.002							
7/16/2013					<0.002				
7/17/2013	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
10/11/2013	<0.002	<0.002							
1/13/2014			<0.002		<0.002	<0.002			
1/14/2014	<0.002	<0.002		<0.002			<0.002	<0.002	<0.002
4/3/2014	<0.002	<0.002							
7/8/2014									
7/9/2014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002
7/10/2014							<0.002	<0.002	
10/24/2014	<0.002	<0.002							
1/12/2015							<0.002		
1/13/2015			<0.002		<0.002	<0.002			
1/14/2015	<0.002	<0.002		<0.002				<0.002	<0.002
5/10/2015	<0.002								
5/11/2015		<0.002							
7/16/2015		<0.002	<0.002		<0.002	<0.002			
7/17/2015	<0.002								<0.002
7/18/2015				<0.002			<0.002	<0.002	
10/6/2015	<0.002								
1/17/2016		<0.002	<0.002			<0.002	<0.002		<0.002
1/18/2016	<0.002			<0.002	<0.002			<0.002	
1/19/2016									
4/26/2016	<0.002	<0.002							
7/26/2016									
7/27/2016			<0.002		<0.002	<0.002			
7/28/2016	<0.002	<0.002					<0.002		<0.002
7/29/2016				<0.002				0.0004 (J)	
8/30/2016	<0.002				<0.002				
8/31/2016						<0.002		0.0003 (J)	
9/1/2016		<0.002	<0.002	<0.002			<0.002		<0.002
10/24/2016	<0.002								
10/25/2016		0.0002 (J)	<0.002				0.0001 (J)		<0.002
10/26/2016				<0.002	0.0002 (J)	<0.002		0.0003 (J)	
10/27/2016									
1/3/2017	0.0001 (J)				0.0001 (J)				
1/4/2017		0.0001 (J)					<0.002	0.0003 (J)	<0.002
1/5/2017			<0.002	<0.002		<0.002			
1/6/2017									
4/3/2017	0.0002 (J)		0.0003 (J)						
4/4/2017						0.0002 (J)	7E-05 (J)		9E-05 (J)
4/5/2017		0.0002 (J)		0.0009 (J)					
4/6/2017					0.0003 (J)			0.0003 (J)	
7/10/2017									
7/11/2017	0.0001 (J)		0.0001 (J)				<0.002	0.0002 (J)	
7/12/2017		0.0001 (J)			0.0002 (J)				
7/13/2017				<0.002		0.0003 (J)			7E-05 (J)
10/2/2017	0.0001 (J)		0.0002 (J)				<0.002		
10/3/2017		0.0001 (J)			0.0002 (J)	<0.002			0.0001 (J)
10/4/2017				0.0001 (J)				0.0008 (J)	
1/9/2018	0.0001 (J)		0.0002 (J)						9E-05 (J)
1/10/2018		0.0002 (J)			0.0003 (J)	8E-05 (J)	0.0002 (J)		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-16	GWC-15	GWC-17	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21
1/11/2018				0.0001 (J)				0.0009 (J)	
7/9/2018	<0.002						<0.002		
7/10/2018		<0.002	<0.002		<0.002	<0.002			<0.002
7/11/2018				<0.002				0.001 (J)	
1/16/2019	<0.002			<0.002	<0.002				
1/17/2019		<0.002	<0.002						<0.002
1/18/2019								0.0012 (J)	
1/21/2019						<0.002	<0.002		
3/25/2019	<0.002						<0.002		
3/26/2019		<0.002	<0.002	<0.002	<0.002				<0.002
3/27/2019								0.00047 (J)	
7/30/2019						0.0002 (J)			
8/26/2019	<0.002								
8/27/2019			0.00033 (J)			<0.002		0.003 (J)	
8/28/2019		0.0001 (J)		<0.002	0.0011 (J)		6.5E-05 (J)		0.00018 (J)
10/7/2019	<0.002								
10/8/2019		0.0001 (J)	0.00012 (J)						0.00016 (J)
10/9/2019				0.00015 (J)	0.0025 (J)	6.4E-05 (J)	0.00018 (J)	0.00032 (J)	
4/6/2020	0.0001 (J)								
4/7/2020		0.00023 (J)	8.6E-05 (J)		0.0014 (J)			0.00067 (J)	<0.002
4/8/2020				8.4E-05 (J)		<0.002	<0.002		
8/17/2020	<0.002								
8/18/2020		0.00017 (J)	9E-05 (J)	0.00014 (J)		<0.002	<0.002	0.00072 (J)	0.00027 (J)
8/19/2020					7.9E-05 (J)				
9/28/2020	<0.002								
9/29/2020						<0.002			
9/30/2020		9.1E-05 (J)	4.7E-05 (J)	6E-05 (J)	0.0012 (J)		<0.002	0.00023 (J)	5.4E-05 (J)
10/1/2020									
3/10/2021					5.2E-05 (J)			0.00016 (J)	
3/11/2021				0.00019 (J)					
3/12/2021	9.3E-05 (J)		5.3E-05 (J)				<0.002		
3/15/2021						4.1E-05 (J)			
3/16/2021		7.3E-05 (J)							<0.002
9/21/2021	<0.002				<0.002			<0.002	
9/22/2021		<0.002		<0.002		<0.002	<0.002		<0.002
9/23/2021			<0.002						
1/31/2022	<0.002								
2/1/2022		<0.002		<0.002			<0.002		<0.002
2/2/2022						<0.002			
2/3/2022			<0.002		<0.002			<0.002	
8/30/2022	<0.002				<0.002		<0.002		<0.002
8/31/2022			<0.002	<0.002				<0.002	
9/1/2022		<0.002				<0.002			
1/31/2023	0.0104								
2/1/2023		<0.002		<0.002	<0.002		<0.002		
2/2/2023			<0.002			<0.002		<0.002	<0.002

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A 1

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.005	<0.005
1/20/2001	<0.005	<0.005	<0.005	0.017	<0.005	<0.005	0.053	<0.005	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.049	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	0.1 (O)	<0.005	<0.005
11/20/2002		0.0064	0.008	0.19 (O)	<0.005	<0.005	0.018	0.0094	<0.005
6/6/2003	<0.005	0.011	0.0066	0.32 (O)	<0.005	<0.005	<0.005	0.021 (O)	0.021 (O)
12/12/2003	<0.005	<0.005	0.0056	0.013	<0.005	<0.005	<0.005	0.016 (O)	0.0078
5/26/2004	<0.005	0.007	0.0084	0.017	<0.005	<0.005	0.023	<0.005	0.0053
12/7/2004	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	0.019	<0.005	<0.005
6/21/2005	<0.005	0.0063	0.0062	0.0088	<0.005	<0.005	0.019	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	0.0095	<0.005	<0.005
4/4/2006							0.033		<0.005
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006							<0.005		<0.005
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	<0.005	<0.005
2/15/2007							0.034		<0.005
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007							0.022		<0.005
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.045	<0.005	<0.005
3/11/2008							0.02		<0.005
6/23/2008	<0.005				<0.005	<0.005			
6/24/2008		<0.005	<0.005	<0.005			<0.005	<0.005	<0.005
11/3/2008							0.052		<0.005
12/4/2008	<0.005				<0.005	<0.005	0.054		
12/5/2008		<0.005	<0.005	<0.005				<0.005	<0.005
3/25/2009							0.072		<0.005
7/7/2009	<0.005	<0.005	<0.005	<0.005					
7/8/2009					<0.005	<0.005	0.021	<0.005	<0.005
9/14/2009							0.015		<0.005
12/20/2009	<0.005			<0.005			0.072	<0.005	<0.005
12/21/2009		<0.005	<0.005		<0.005	<0.005			
3/4/2010							0.083		<0.005
6/20/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	<0.005	
6/21/2010									<0.005
9/14/2010							0.085		<0.005
1/6/2011		<0.005		<0.005	<0.005				
1/7/2011	<0.005		<0.005			<0.005	0.028	<0.005	<0.005
4/15/2011							<0.005		<0.005
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/8/2011									
9/25/2011							0.02		<0.005
1/17/2012	<0.005	<0.005		<0.005	0.023	<0.005	0.016	<0.005	
1/18/2012			<0.005						<0.005
4/4/2012							0.0156		<0.005
7/9/2012	<0.005	<0.005		<0.005	0.016	<0.005	<0.005	0.066 (O)	
7/10/2012			<0.005						<0.005
10/9/2012							0.0094		<0.005
1/17/2013		<0.005		<0.005	0.033	<0.005			
1/18/2013	0.009		<0.005				0.0067	0.04 (O)	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-14	GWC-15	GWC-16
4/5/2013							0.0077		<0.005
7/16/2013		<0.005		0.012	0.0068	<0.005			
7/17/2013	0.011		<0.005				0.01	<0.005	<0.005
10/11/2013							0.0087		0.0069
1/13/2014	0.012	<0.005		<0.005	0.036	<0.005		<0.005	
1/14/2014			<0.005				0.012		<0.005
4/3/2014							0.022		<0.005
7/8/2014					0.017	<0.005			
7/9/2014	0.011	<0.005	<0.005	<0.005			0.0089	<0.005	0.005
7/10/2014									
10/24/2014							0.017		<0.005
1/12/2015									
1/13/2015	0.0092	<0.005		<0.005	0.027	<0.005		<0.005	
1/14/2015			<0.005				<0.005		<0.005
5/10/2015							<0.005		
5/11/2015									<0.005
7/16/2015	0.014	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
7/17/2015			<0.005				<0.005		
7/18/2015									
10/6/2015							<0.005		0.0073
1/17/2016				0.023			<0.005	<0.005	0.0031 (J)
1/18/2016	0.023	<0.005	<0.005			<0.005			
1/19/2016					0.023				
4/26/2016							0.00428 (J)		0.00497 (J)
7/26/2016					0.0056 (J)				
7/27/2016	0.0323	<0.005		0.002 (J)		0.0025 (J)	0.0038 (J)	<0.005	
7/28/2016			<0.005						0.0076 (J)
7/29/2016									
8/30/2016		<0.005	<0.005	0.002 (J)					
8/31/2016					0.0084 (J)	0.0019 (J)			
9/1/2016	0.0438						0.0056 (J)	<0.005	0.0052 (J)
10/24/2016									
10/25/2016	0.031			0.0022 (J)			0.0023 (J)	<0.005	0.0085 (J)
10/26/2016		<0.005	<0.005		0.0052 (J)	0.002 (J)			
10/27/2016									
1/3/2017		<0.005							
1/4/2017				0.0016 (J)	0.0062 (J)	<0.005			0.0048 (J)
1/5/2017			0.0014 (J)				0.0038 (J)	<0.005	
1/6/2017	0.0324								
4/3/2017								<0.005	
4/4/2017				0.0052 (J)			0.0064 (J)		
4/5/2017						<0.005			0.0068 (J)
4/6/2017	0.0188 (J)	<0.005	<0.005		0.0195				
7/10/2017						<0.005			
7/11/2017					<0.005		0.0044 (J)	<0.005	
7/12/2017		<0.005	<0.005	0.0024 (J)					0.0048 (J)
7/13/2017	0.0118								
10/2/2017							0.004 (J)	<0.005	
10/3/2017		<0.005	<0.005	<0.005	0.0079 (J)				0.0051 (J)
10/4/2017	0.0195					<0.005			
1/9/2018	<0.005		<0.005				0.0019 (J)	0.0019 (J)	
1/10/2018		<0.005		0.0018 (J)					0.0018 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-14	GWC-15	GWC-16
1/11/2018					0.0054 (J)	<0.005			
7/9/2018							0.0029 (J)		
7/10/2018		0.0018 (J)	0.0016 (J)	0.0026 (J)				0.0086 (J)	0.0045 (J)
7/11/2018	<0.005				0.0022 (J)	<0.005			
1/16/2019	0.0071 (J)	<0.005	<0.005	0.0018 (J)			0.0016 (J)		
1/17/2019					<0.005	<0.005		0.0029 (J)	0.0031 (J)
1/18/2019									
1/21/2019									
3/25/2019	<0.005								
3/26/2019		<0.005	0.05 (J)	0.0023 (J)			0.0022 (J)	0.0074 (J)	0.0033 (J)
3/27/2019					0.01 (J)	<0.005			
7/30/2019									
8/26/2019	<0.005								
8/27/2019			0.0033 (J)	0.0016 (J)	<0.005	<0.005	0.0035 (J)	0.0092 (J)	
8/28/2019		0.0033 (J)							0.004 (J)
10/7/2019									
10/8/2019	0.0072 (J)				<0.005		0.0026 (J)	0.014	0.0023 (J)
10/9/2019		0.0073 (J)	<0.005	0.0024 (J)		<0.005			
4/6/2020	0.0078 (J)								
4/7/2020		<0.005	<0.005	0.0013 (J)	0.0021 (J)	<0.005	0.005 (J)	0.0029 (J)	<0.005
4/8/2020									
8/17/2020						<0.005			
8/18/2020					0.0028 (J)		0.0029 (J)	0.0022 (J)	0.0058 (J)
8/19/2020	<0.005	<0.005	<0.005	0.002 (J)					
9/28/2020	0.01 (J)			<0.005					
9/29/2020					0.0024 (J)	<0.005	0.0051 (J)		
9/30/2020		<0.005	0.0023 (J)					<0.005	0.0037 (J)
10/1/2020									
3/10/2021		0.006	0.0049 (J)	0.0026 (J)	0.0044 (J)	0.003 (J)			
3/11/2021	<0.005								
3/12/2021								0.0064	
3/15/2021									
3/16/2021							0.0034 (J)		0.0044 (J)
9/21/2021	<0.005	<0.005	0.0016 (J)		0.0038 (J)	<0.005			
9/22/2021							0.0034 (J)		0.0031 (J)
9/23/2021				0.0018 (J)				0.0016 (J)	
1/31/2022	<0.005								
2/1/2022									0.0024 (J)
2/2/2022			0.0017 (J)				0.0038 (J)		
2/3/2022		<0.005		0.0022 (J)	0.019	<0.005		0.0031 (J)	
8/30/2022	0.0063	<0.005	0.00277 (J)			<0.005	0.00544		
8/31/2022					0.00344 (J)			0.00192 (J)	
9/1/2022				0.00252 (J)					0.00334 (J)
1/31/2023	0.00443 (J)								
2/1/2023		0.00187 (J)	0.00182 (J)		0.00333 (J)	<0.005			<0.005
2/2/2023				0.0022 (J)			0.0035 (J)	<0.005	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-9	GWA-8 (bg)	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	<0.005	<0.005	<0.005	<0.005				
11/21/2000	<0.005	<0.005		<0.005	<0.005			
1/20/2001	<0.005	<0.005	<0.005	0.014 (O)	<0.005			
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005			
7/16/2001	<0.005	<0.005	<0.005	0.015 (O)	<0.005			
11/1/2001	<0.005	<0.005	<0.005	0.012 (O)	<0.005			
4/25/2002	<0.005	<0.005	<0.005	0.01	<0.005			
11/20/2002	<0.005	<0.005	<0.005	0.026 (O)	<0.005			
6/6/2003	<0.005	<0.005	<0.005	0.022 (O)	<0.005			
12/12/2003	<0.005	<0.005	<0.005	0.028 (O)	<0.005			
5/26/2004	<0.005	<0.005	<0.005	0.012 (O)	0.005			
12/7/2004	<0.005	<0.005	<0.005	0.0073	<0.005			
6/21/2005	<0.005	0.0062	<0.005	0.0087	<0.005			
12/12/2005	<0.005	<0.005	<0.005	0.013 (O)	<0.005			
4/4/2006			<0.005					
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005			
8/30/2006			<0.005					
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2007			<0.005					
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005			
9/11/2007			<0.005					
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005			
3/11/2008			<0.005					
6/23/2008		<0.005	<0.005					
6/24/2008	<0.005			<0.005	<0.005			
11/3/2008			<0.005					
12/4/2008		<0.005	<0.005		<0.005			
12/5/2008	<0.005			<0.005				
3/25/2009			<0.005					
7/7/2009			<0.005	<0.005				
7/8/2009	<0.005	<0.005			<0.005			
9/14/2009			<0.005					
12/20/2009			<0.005		<0.005			
12/21/2009	<0.005	<0.005		<0.005				
3/4/2010			<0.005					
6/20/2010		<0.005	<0.005		<0.005			
6/21/2010	<0.005			<0.005		<0.005	0.048	<0.005
9/14/2010			<0.005					
1/6/2011					<0.005			
1/7/2011	<0.005	<0.005	<0.005	<0.005		<0.005	0.014	<0.005
4/15/2011			<0.005					
7/7/2011			<0.005			<0.005		
7/8/2011	<0.005	<0.005		<0.005		<0.005	0.018	<0.005
9/25/2011			<0.005					
1/17/2012			<0.005		<0.005			
1/18/2012	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005
4/4/2012			<0.005					
7/9/2012					<0.005			
7/10/2012	<0.005	<0.005	<0.005	<0.005		<0.005	0.02	<0.005
10/9/2012			<0.005					
1/17/2013					<0.005			
1/18/2013	<0.005	<0.005	<0.005	<0.005		0.005	0.015	<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-9	GWA-8 (bg)	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013			<0.005					
7/16/2013								
7/17/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037	<0.005
10/11/2013			<0.005					
1/13/2014					<0.005			
1/14/2014	<0.005	<0.005	<0.005	<0.005		<0.005	0.043	<0.005
4/3/2014			<0.005					
7/8/2014								
7/9/2014	<0.005	<0.005	<0.005	<0.005	<0.005		0.023	
7/10/2014						<0.005		<0.005
10/24/2014			<0.005					
1/12/2015				<0.005		<0.005		
1/13/2015					<0.005			
1/14/2015	<0.005	<0.005	<0.005				0.022	<0.005
5/10/2015			<0.005					
5/11/2015								
7/16/2015				<0.005	<0.005			
7/17/2015		<0.005	<0.005				0.033	
7/18/2015	<0.005					<0.005		<0.005
10/6/2015			<0.005					
1/17/2016					<0.005	<0.005	0.021	
1/18/2016	<0.005	<0.005	<0.005	<0.005				<0.005
1/19/2016								
4/26/2016			<0.005					
7/26/2016								
7/27/2016					0.002 (J)			
7/28/2016		<0.005	0.001 (J)			<0.005	0.0341	
7/29/2016	0.0011 (J)			0.0036 (J)				0.0022 (J)
8/30/2016			<0.005					
8/31/2016		<0.005			<0.005			0.0014 (J)
9/1/2016	0.0012 (J)			0.0067 (J)		<0.005	0.0297	
10/24/2016			0.0013 (J)					
10/25/2016						0.0014 (J)	0.0095 (J)	
10/26/2016	0.0013 (J)			0.0042 (J)	0.0035 (J)			0.001 (J)
10/27/2016		<0.005						
1/3/2017			<0.005					
1/4/2017						0.0014 (J)	0.022	<0.005
1/5/2017	0.0012 (J)				<0.005			
1/6/2017		<0.005		0.0042 (J)				
4/3/2017			<0.005					
4/4/2017				0.0043 (J)	<0.005	<0.005	0.0236	
4/5/2017	<0.005							
4/6/2017		<0.005						<0.005
7/10/2017								
7/11/2017			<0.005			<0.005		<0.005
7/12/2017		<0.005		0.0033 (J)				
7/13/2017	0.0018 (J)				<0.005		0.013	
10/2/2017			<0.005			<0.005		
10/3/2017					<0.005		0.01 (J)	
10/4/2017	0.0042 (J)	<0.005		0.0038 (J)				0.0023 (J)
1/9/2018			<0.005				0.0162	
1/10/2018					<0.005	<0.005		

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A 1
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-9	GWA-8 (bg)	GWB-4R	GWC-2	GWC-20	GWC-21	GWC-22
1/11/2018	<0.005	<0.005		0.0029 (J)				<0.005
7/9/2018			<0.005			<0.005		
7/10/2018					<0.005		0.016	
7/11/2018	0.0016 (J)	<0.005		0.0015 (J)				<0.005
1/16/2019	<0.005		<0.005	<0.005				
1/17/2019							0.011	
1/18/2019		<0.005						<0.005
1/21/2019					<0.005	0.0014 (J)		
3/25/2019			<0.005	<0.005		<0.005		
3/26/2019	<0.005						0.022	
3/27/2019		<0.005						<0.005
7/30/2019					<0.005			
8/26/2019			<0.005					
8/27/2019				<0.005	<0.005			<0.005
8/28/2019	<0.005	<0.005				0.0014 (J)	0.019	
10/7/2019			<0.005					
10/8/2019							0.019	
10/9/2019	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005
4/6/2020			<0.005					
4/7/2020				0.0025 (J)			0.012	<0.005
4/8/2020	<0.005	<0.005			<0.005	0.0013 (J)		
8/17/2020			<0.005					
8/18/2020	0.002 (J)				<0.005	<0.005	0.013	<0.005
8/19/2020		<0.005		<0.005				
9/28/2020			<0.005					
9/29/2020					<0.005			
9/30/2020	<0.005					<0.005	0.0061 (J)	<0.005
10/1/2020		<0.005		<0.005				
3/10/2021		<0.005		0.0021 (J)				<0.005
3/11/2021	0.0016 (J)							
3/12/2021			<0.005			<0.005		
3/15/2021					<0.005			
3/16/2021							0.0055	
9/21/2021			<0.005	<0.005				<0.005
9/22/2021	<0.005	<0.005			<0.005	0.0024 (J)	0.0027 (J)	
9/23/2021								
1/31/2022			<0.005					
2/1/2022	<0.005					<0.005	0.0054	
2/2/2022		<0.005		<0.005	<0.005			
2/3/2022								<0.005
8/30/2022			<0.005	0.00265 (J)		0.00192 (J)	0.00648	
8/31/2022	<0.005							<0.005
9/1/2022		<0.005			<0.005			
1/31/2023			<0.005					
2/1/2023	<0.005	<0.005				<0.005		
2/2/2023				0.00466 (J)	<0.005		0.00542	<0.005

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12
11/21/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13
1/20/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.14
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.18
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.15
11/20/2002		0.03	0.0069	<0.02	<0.02	<0.02	0.0071	0.0069	0.15
6/6/2003	0.047	0.0065	0.082 (O)	0.0063	<0.02	<0.02	0.0098	0.16 (O)	0.11
12/12/2003	0.0086	0.0052	0.012	<0.02	<0.02	<0.02	0.0074	<0.02	0.089
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09
12/7/2004	<0.02	0.0074	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.072
6/21/2005	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04
12/12/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.021
4/4/2006		0.013	<0.02						
6/27/2006	<0.02	<0.02	<0.02	<0.02	<0.02	0.0025	<0.02	0.0029	0.02
8/30/2006		0.0039	<0.02						
12/4/2006	0.0027	0.016	0.0031	<0.02	<0.02	<0.02	<0.02	0.0047	0.022
2/15/2007		0.017	0.0025						
6/23/2007	0.0027	0.0076	0.0032	<0.02	<0.02	<0.02	0.0036	0.0029	0.027
9/11/2007		0.012	<0.02						
12/11/2007	0.0033	0.017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.017
3/11/2008		0.012	<0.02						
6/23/2008	0.0074			<0.02	<0.02		<0.02		
6/24/2008		0.0069	<0.02			<0.02		<0.02	0.053
11/3/2008		0.016	0.0032						
12/4/2008	0.0084	0.013		<0.02	<0.02		<0.02		
12/5/2008			<0.02			<0.02		<0.02	0.0078
3/25/2009		0.014	<0.02						
7/7/2009	0.023							<0.02	0.012
7/8/2009		0.014	0.0036	<0.02	<0.02	<0.02	0.0026		
9/14/2009		0.0072	0.0026						
12/20/2009	0.007	0.02	0.0031					<0.02	
12/21/2009				<0.02	<0.02	<0.02	<0.02		0.011
3/4/2010		0.023	<0.02						
6/20/2010	0.0047	0.017		<0.02	<0.02		<0.02	0.0037	0.0083
6/21/2010			0.0025			<0.02			
9/14/2010		0.018	0.0035						
1/6/2011				0.0028			0.003	<0.02	
1/7/2011	0.018	0.019	0.0036		<0.02	<0.02			0.0079
4/15/2011		0.019	<0.02						
7/7/2011	0.019	0.014	0.003	<0.02	<0.02		0.004	0.0045	0.007
7/8/2011						0.0031			
9/25/2011		0.015	0.0037						
1/17/2012	0.0298	0.021		<0.02	<0.02		<0.02	<0.02	
1/18/2012			<0.02			<0.02			0.0116
4/4/2012		0.0191	<0.02						
7/9/2012	0.14	0.026		<0.02	<0.02		0.005	0.0026	
7/10/2012			0.0026			<0.02			0.0096
10/9/2012		0.049	0.007						
1/17/2013				<0.02	<0.02		0.005	<0.02	
1/18/2013	0.21	0.036	<0.02			<0.02			<0.02

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
4/5/2013		0.04	<0.02						
7/16/2013				<0.02	<0.02		<0.02	<0.02	
7/17/2013	0.18	0.062	<0.02			<0.02			<0.02
10/11/2013		0.032	<0.02						
1/13/2014	0.24			<0.02	<0.02		<0.02	<0.02	
1/14/2014		0.044	<0.02			<0.02			<0.02
4/3/2014		0.077 (O)	0.0032 (J)						
7/8/2014				0.002 (J)	0.0034 (J)		0.0024 (J)		
7/9/2014	0.22	0.032	0.0031 (J)			0.0012 (J)		0.0041 (J)	0.0039 (J)
7/10/2014									
10/24/2014		0.045	0.0028 (J)						
1/12/2015									
1/13/2015	0.19			0.0015 (J)	<0.02		0.0023 (J)	0.0029 (J)	
1/14/2015		0.031	0.0034 (J)			0.002 (J)			0.005
5/10/2015		0.013							
5/11/2015			0.0026 (J)						
7/16/2015	0.23		0.0028 (J)	<0.02	0.0049 (J)		0.002 (J)	0.0034 (J)	
7/17/2015		0.028							0.0045 (J)
7/18/2015						<0.02			
10/6/2015		0.02	0.0016 (J)						
1/17/2016		0.028	0.0029 (J)					0.0046 (J)	
1/18/2016	0.41			0.0011 (J)	0.0058	0.0019 (J)			0.0044 (J)
1/19/2016							0.0025 (J)		
4/26/2016		0.0181	0.00296 (J)						
7/26/2016				<0.02			0.0027 (J)		
7/27/2016	0.397	0.0189			0.0058 (J)			0.0064 (J)	
7/28/2016			0.0026 (J)						0.0038 (J)
7/29/2016						0.0031 (J)			
10/24/2016									
10/25/2016	0.425	0.0206	<0.02						
1/3/2017									
1/4/2017			<0.02		<0.02		<0.02	<0.02	
1/5/2017		0.0172		<0.02		<0.02			0.0077 (J)
1/6/2017	0.41								
4/3/2017									
4/4/2017		0.0235						0.0061 (J)	
4/5/2017			0.0033 (J)		0.0039 (J)	0.0029 (J)			
4/6/2017	0.297			<0.02			0.0025 (J)		0.0069 (J)
7/10/2017					0.0062 (J)				
7/11/2017		0.0136					0.0027 (J)		
7/12/2017			0.0037 (J)	0.0016 (J)				0.0067 (J)	0.0098 (J)
7/13/2017	0.194					0.0037 (J)			
10/2/2017		0.0175							
10/3/2017			0.0036 (J)						
10/4/2017	0.316								
1/9/2018	0.194	0.0103							0.0086 (J)
1/10/2018			0.0029 (J)	0.0019 (J)				0.0056 (J)	
1/11/2018					0.0025 (J)	0.0026 (J)	0.0019 (J)		
7/9/2018		0.0078 (J)							
7/10/2018			0.0025 (J)					0.0056 (J)	0.0098 (J)
7/11/2018	0.15			0.0097 (J)	0.0059 (J)	0.0032 (J)	0.0021 (J)		
1/16/2019	0.16	0.0043 (J)		<0.02		<0.02		0.0043 (J)	0.077

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	GWC-12	GWC-17	GWC-11	GWC-1	GWB-6R
1/17/2019			0.0021 (J)		<0.02		0.0021 (J)		
1/18/2019									
1/21/2019									
3/25/2019	0.18								
3/26/2019		0.0063 (J)	0.0038 (J)	0.0029 (J)		0.0024 (J)		0.0051 (J)	0.086
3/27/2019					0.0049 (J)		0.0023 (J)		
7/30/2019									
10/7/2019									
10/8/2019	0.11	<0.02	<0.02	<0.02			<0.02		
10/9/2019					0.0021 (J)	<0.02		<0.02	0.018 (J)
4/6/2020	0.12								
4/7/2020		0.0026 (J)	<0.02		0.0024 (J)		<0.02	0.0015 (J)	0.041 (J)
4/8/2020				<0.02		<0.02			
9/28/2020	0.1			<0.02				0.0042 (J)	
9/29/2020		<0.02			0.0046 (J)		0.0023 (J)		
9/30/2020			0.0028 (J)			<0.02			0.018
10/1/2020									
3/10/2021					0.0055 (J)		0.0023 (J)	0.005 (J)	0.027
3/11/2021	0.14					<0.02			
3/12/2021									
3/15/2021				<0.02					
3/16/2021		<0.02	0.0034 (J)						
9/21/2021	0.096			<0.02	0.0051 (J)		0.002 (J)		0.015
9/22/2021		0.0052 (J)	0.0025 (J)			<0.02			
9/23/2021								0.0042 (J)	
1/31/2022	0.1								
2/1/2022			0.0021 (J)			0.0022 (J)			
2/2/2022		0.004 (J)							0.0099 (J)
2/3/2022				<0.02	0.0052 (J)		0.0031 (J)	0.0028 (J)	
8/30/2022	0.11	0.00933 (J)			0.00949 (J)				0.0192 (J)
8/31/2022				<0.02		0.00599 (J)	0.00481 (J)		
9/1/2022			0.0065 (J)					0.00748 (J)	
1/31/2023	0.106								
2/1/2023			0.00361 (J)	<0.02	0.0056 (J)	0.005 (J)	0.00373 (J)		0.0201
2/2/2023		0.00594 (J)						0.00497 (J)	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	0.038	0.06	<0.02	<0.02	<0.02				
11/21/2000	0.013	0.068	<0.02		<0.02	<0.02			
1/20/2001	0.038	0.12	<0.02	<0.02	<0.02	<0.02			
3/14/2001	0.077 (O)	0.08	<0.02	<0.02	<0.02	<0.02			
7/16/2001	0.12 (O)	0.11	<0.02	<0.02	<0.02	<0.02			
11/1/2001	0.21 (O)	0.079	<0.02	<0.02	<0.02	<0.02			
4/25/2002	0.086 (O)	0.11	<0.02	<0.02	<0.02	<0.02			
11/20/2002	0.14 (O)	0.15	0.014	<0.02	0.0099	<0.02			
6/6/2003	0.12 (O)	0.12	<0.02	0.017	0.019 (O)	<0.02			
12/12/2003	0.014	0.13	<0.02	0.011	0.018 (O)	<0.02			
5/26/2004	0.06 (O)	0.095	<0.02	<0.02	<0.02	<0.02			
12/7/2004	0.054	0.067	<0.02	<0.02	<0.02	<0.02			
6/21/2005	0.038	0.062	<0.02	<0.02	<0.02	<0.02			
12/12/2005	0.0056	0.09	<0.02	<0.02	<0.02	<0.02			
4/4/2006				<0.02					
6/27/2006	0.0043	0.083	<0.02	<0.02	<0.02	<0.02			
8/30/2006				<0.02					
12/4/2006	0.0044	0.084	<0.02	<0.02	<0.02	<0.02			
2/15/2007				<0.02					
6/23/2007	0.0039	0.081	<0.02	<0.02	<0.02	<0.02			
9/11/2007				<0.02					
12/11/2007	0.0029	0.067	<0.02	<0.02	<0.02	<0.02			
3/11/2008				<0.02					
6/23/2008			<0.02	<0.02					
6/24/2008	0.003	0.059			<0.02	<0.02			
11/3/2008				<0.02					
12/4/2008			<0.02	<0.02				<0.02	
12/5/2008	<0.02	0.054			<0.02				
3/25/2009				<0.02					
7/7/2009	<0.02	0.038		<0.02					
7/8/2009			0.0029		<0.02	<0.02			
9/14/2009				<0.02					
12/20/2009				<0.02	<0.02	<0.02			
12/21/2009	<0.02	0.06	<0.02						
3/4/2010				<0.02					
6/20/2010	<0.02		<0.02	<0.02	<0.02	<0.02			
6/21/2010		0.036					<0.02	<0.02	<0.02
9/14/2010				<0.02					
1/6/2011	0.0067					<0.02			
1/7/2011		0.043	<0.02	<0.02	<0.02		0.0029	0.0031	<0.02
4/15/2011				<0.02					
7/7/2011	0.019			<0.02	0.0036		<0.02		
7/8/2011		0.044	<0.02				0.0046	0.0048	<0.02
9/25/2011				<0.02					
1/17/2012	0.021			<0.02	<0.02	<0.02			
1/18/2012		0.045	<0.02				<0.02	<0.02	<0.02
4/4/2012				<0.02					
7/9/2012	0.032				0.0059	<0.02			
7/10/2012		0.048	<0.02	<0.02			0.0081	<0.02	<0.02
10/9/2012				<0.02					
1/17/2013	0.034					<0.02			
1/18/2013		0.049	<0.02	<0.02	<0.02		0.0063	<0.02	<0.02

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013				<0.02					
7/16/2013	0.021								
7/17/2013		0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/11/2013				<0.02					
1/13/2014	0.008				<0.02	<0.02			
1/14/2014		0.067	<0.02	<0.02			<0.02	0.006	<0.02
4/3/2014				0.0015 (J)					
7/8/2014									
7/9/2014	0.0052	0.055	0.0016 (J)	0.0012 (J)	0.0012 (J)	<0.02		0.0019 (J)	
7/10/2014							0.0026 (J)		0.0053
10/24/2014				<0.02					
1/12/2015		0.066					0.0031 (J)		
1/13/2015	0.0036 (J)				0.0013 (J)	<0.02			
1/14/2015			<0.02	<0.02				0.0037 (J)	0.0013 (J)
5/10/2015				<0.02					
5/11/2015									
7/16/2015	0.004 (J)	0.045			<0.02	<0.02			
7/17/2015			0.0029 (J)	<0.02				0.0028 (J)	
7/18/2015							0.003 (J)		0.0043 (J)
10/6/2015				0.0012 (J)					
1/17/2016					0.0013 (J)	<0.02	0.0025 (J)	0.0039 (J)	
1/18/2016	0.0069	0.049	<0.02	0.00079 (J)					<0.02
1/19/2016									
4/26/2016				<0.02					
7/26/2016									
7/27/2016	0.0046 (J)				<0.02	<0.02			
7/28/2016			<0.02	<0.02			0.0024 (J)	0.0022 (J)	
7/29/2016		0.0388							0.0052 (J)
10/24/2016				<0.02					
10/25/2016					<0.02		<0.02		
1/3/2017	<0.02			<0.02					
1/4/2017							<0.02	<0.02	<0.02
1/5/2017					<0.02	<0.02			
1/6/2017		0.0341	<0.02						
4/3/2017				<0.02	0.002 (J)				
4/4/2017		0.0371				<0.02	0.0024 (J)	0.003 (J)	
4/5/2017									
4/6/2017	0.0063 (J)		<0.02						<0.02
7/10/2017									
7/11/2017				<0.02	0.0022 (J)		0.003 (J)		0.0016 (J)
7/12/2017	0.0064 (J)	0.0399	0.0013 (J)						
7/13/2017						<0.02		0.0019 (J)	
10/2/2017				<0.02	0.0022 (J)		0.0028 (J)		
10/3/2017									
10/4/2017									
1/9/2018				0.0014 (J)	0.0021 (J)			0.0046 (J)	
1/10/2018	0.0077 (J)					<0.02	0.0026 (J)		
1/11/2018		0.0327	<0.02						0.0012 (J)
7/9/2018				<0.02			<0.02		
7/10/2018	0.016				0.0025 (J)	<0.02		0.0031 (J)	
7/11/2018		0.02	<0.02						0.0025 (J)
1/16/2019	0.0033 (J)	0.0022 (J)		<0.02					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWA-8 (bg)	GWC-15	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2019					<0.02			0.0022 (J)	
1/18/2019			<0.02						<0.02
1/21/2019						0.0024 (J)	0.0031 (J)		
3/25/2019		0.004 (J)		<0.02			0.0024 (J)		
3/26/2019	0.0058 (J)				0.0026 (J)			0.0041 (J)	
3/27/2019			<0.02						0.002 (J)
7/30/2019						<0.02			
10/7/2019				<0.02					
10/8/2019					<0.02			<0.02	
10/9/2019	0.033 (J)	<0.02	<0.02			<0.02	<0.02		<0.02
4/6/2020				<0.02					
4/7/2020	0.0053 (J)	0.0037 (J)			<0.02			<0.02	0.0014 (J)
4/8/2020			0.0015 (J)			<0.02	<0.02		
9/28/2020				<0.02					
9/29/2020						<0.02			
9/30/2020	0.0037 (J)				0.0028 (J)		0.0029 (J)	0.0029 (J)	<0.02
10/1/2020		0.0047 (J)	<0.02						
3/10/2021	0.0026 (J)	0.0054 (J)	<0.02						<0.02
3/11/2021									
3/12/2021				<0.02	0.0037 (J)		0.0038 (J)		
3/15/2021						<0.02			
3/16/2021								0.003 (J)	
9/21/2021	0.0039 (J)	0.0027 (J)		<0.02					<0.02
9/22/2021			<0.02			<0.02	0.0033 (J)	<0.02	
9/23/2021					0.0022 (J)				
1/31/2022				<0.02					
2/1/2022							0.0039 (J)	0.0036 (J)	
2/2/2022		0.0031 (J)	<0.02			<0.02			
2/3/2022	0.0046 (J)				0.0023 (J)				<0.02
8/30/2022	0.0138 (J)	0.00943 (J)		0.00372 (J)			0.00647 (J)	0.00715 (J)	
8/31/2022					0.00476 (J)				0.00396 (J)
9/1/2022			0.00514 (J)			0.0045 (J)			
1/31/2023				<0.02					
2/1/2023	0.0255		<0.02				0.00526 (J)		
2/2/2023		0.021			0.00453 (J)	<0.02		0.00537 (J)	<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-9	GWC-1	GWC-14	GWC-15	GWA-8 (bg)	GWC-16	GWB-4R
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/21/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1/20/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.025	<0.02	0.041
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.059
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/20/2002		<0.02	0.033 (O)	<0.02	<0.02	<0.02	0.016	<0.02	0.061
6/6/2003	0.69 (O)	<0.02	<0.02	0.011	<0.02	<0.02	0.032	0.035 (O)	0.041
12/12/2003	0.12	0.013	<0.02	<0.02	<0.02	<0.02	0.019	<0.02	0.012
5/26/2004	0.013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.016
12/7/2004	<0.02	0.028 (O)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
12/12/2005	0.014	<0.02	0.032 (O)	<0.02	0.011	0.064 (O)	0.01	<0.02	0.017
4/4/2006					<0.02		<0.02	<0.02	
6/27/2006	0.01	0.0028	0.018 (O)	<0.02	0.0045	0.011	0.0043	0.077 (O)	0.11
8/30/2006					<0.02		0.017	0.0027	
12/4/2006	0.0065	0.0028	0.0044	<0.02	<0.02	0.0033	0.0053	<0.02	0.086
2/15/2007					<0.02		0.0045	0.0032	
6/23/2007	0.0049	0.0063	0.0041	<0.02	<0.02	0.0029	0.0043	0.0058	0.076
9/11/2007					<0.02		0.004	0.0033	
12/11/2007	0.0043	<0.02	0.0039	<0.02	<0.02	<0.02	0.0048	<0.02	0.087
3/11/2008					<0.02		0.0043	<0.02	
6/23/2008	0.0025	<0.02	<0.02				0.0037		
6/24/2008				<0.02	<0.02	<0.02		<0.02	0.062
11/3/2008					<0.02		0.0032	0.0025	
12/4/2008	0.0025	<0.02	0.0039		<0.02		0.0029		
12/5/2008				<0.02		<0.02		<0.02	0.014
3/25/2009					<0.02		0.0055	0.0025	
7/7/2009	<0.02			<0.02			0.0028		0.052
7/8/2009		<0.02	<0.02		<0.02	<0.02		<0.02	
9/14/2009					<0.02		0.0027	<0.02	
12/20/2009	0.0031			<0.02	<0.02	<0.02	0.0029	<0.02	
12/21/2009		<0.02	0.004						0.046
3/4/2010					<0.02		0.0042	<0.02	
6/20/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0027		
6/21/2010								<0.02	0.045
9/14/2010					<0.02		<0.02	<0.02	
1/6/2011		<0.02		<0.02					
1/7/2011	<0.02		0.0032		<0.02	<0.02	0.0032	<0.02	0.024
4/15/2011					<0.02		<0.02	<0.02	
7/7/2011	0.0031	<0.02		0.0025	<0.02	<0.02	0.005	<0.02	
7/8/2011			0.0025						0.023
9/25/2011					<0.02		0.0041	0.0028	
1/17/2012	0.004	0.0043		<0.02	<0.02	<0.02	0.0043		
1/18/2012			0.0045					0.0029	0.011
4/4/2012					<0.02		<0.02	<0.02	
7/9/2012	0.0096	<0.02		<0.02	<0.02	<0.02			
7/10/2012			<0.02				0.0028	<0.02	0.024
10/9/2012					<0.02		0.0033	0.0027	
1/17/2013		0.0025		<0.02					
1/18/2013	0.051		0.0029		<0.02	<0.02	0.0038	<0.02	0.011

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-9	GWC-1	GWC-14	GWC-15	GWA-8 (bg)	GWC-16	GWB-4R
4/5/2013					<0.02		0.0026	<0.02	
7/16/2013		<0.02		<0.02					
7/17/2013	0.042		<0.02		<0.02	<0.02	<0.02	<0.02	0.0029
10/11/2013					<0.02		0.0046	<0.02	
1/13/2014	0.0025	0.0025		0.0025		0.0025			
1/14/2014			0.0025		0.0025		0.0025	0.0025	0.0025
4/3/2014					0.0014 (J)		0.0029	0.0015 (J)	
7/8/2014		0.0011 (J)							
7/9/2014	0.064		0.0016 (J)	<0.02	0.00086 (J)	<0.02	0.002 (J)	0.0012 (J)	0.0051
7/10/2014									
10/24/2014					0.00083 (J)		0.0031	0.0013 (J)	
1/12/2015									0.0023 (J)
1/13/2015	0.066	0.0021 (J)		0.0025		<0.02			
1/14/2015			0.0024 (J)		<0.02		0.003	0.0017 (J)	
5/10/2015					<0.02		0.0028		
5/11/2015								0.0015 (J)	
7/16/2015	0.036	<0.02		<0.02		<0.02		<0.02	0.0021 (J)
7/17/2015			0.0031		<0.02		0.0018 (J)		
7/18/2015									
10/6/2015					<0.02		0.0018 (J)	<0.02	
1/17/2016				<0.02	<0.02	<0.02		<0.02	
1/18/2016	0.035		0.0059				0.0028		0.0092
1/19/2016		0.0029							
4/26/2016					<0.02		<0.02	<0.02	
7/26/2016		<0.02							
7/27/2016	0.0529			<0.02	<0.02	<0.02			
7/28/2016			0.0019 (J)				0.0018 (J)	<0.02	
7/29/2016									0.003 (J)
10/24/2016							0.0024 (J)		
10/25/2016	0.0035 (J)				<0.02	<0.02		<0.02	
1/3/2017							0.0035 (J)		
1/4/2017		<0.02		<0.02				0.0025 (J)	
1/5/2017					<0.02	<0.02			
1/6/2017	0.0235		0.0026 (J)						0.0104
4/3/2017						<0.02	0.0041 (J)		
4/4/2017				<0.02	<0.02				0.0132
4/5/2017								0.0025 (J)	
4/6/2017	0.0829	0.004 (J)	0.0047 (J)						
7/10/2017									
7/11/2017		<0.02			<0.02	<0.02	0.0029 (J)		
7/12/2017			0.003 (J)	<0.02				0.002 (J)	0.0046 (J)
7/13/2017	0.0853								
10/2/2017					0.0026 (J)	<0.02	0.0026 (J)		
10/3/2017								<0.02	
10/4/2017	0.0263								
1/9/2018	0.0665				0.0018 (J)	<0.02	0.0035 (J)		
1/10/2018				0.0014 (J)				0.0016 (J)	
1/11/2018		0.0018 (J)	0.0046 (J)						0.0095 (J)
7/9/2018					<0.02		0.0022 (J)		
7/10/2018				0.0021 (J)		<0.02		0.0031 (J)	
7/11/2018	0.02 (J)	<0.02	0.0033 (J)						0.0028 (J)
1/16/2019	0.014 (J)			<0.02	<0.02		0.0037 (J)		0.0052 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-9	GWC-1	GWC-14	GWC-15	GWA-8 (bg)	GWC-16	GWB-4R
1/17/2019		<0.02				<0.02		<0.02	
1/18/2019			0.0025 (J)						
1/21/2019									
3/25/2019	<0.05 (O)						<0.02		0.0078 (J)
3/26/2019				<0.02	<0.02	<0.02		<0.02	
3/27/2019		<0.02	0.0026 (J)						
7/30/2019									
10/7/2019							0.0077 (J)		
10/8/2019	0.095	0.0061 (J)			0.0052 (J)	0.0051 (J)		0.01	
10/9/2019			0.0054 (J)	0.0057 (J)					0.0064 (J)
4/6/2020	<0.02						<0.02		
4/7/2020		<0.02		<0.02	<0.02	<0.02		<0.02	<0.02
4/8/2020			<0.02						
9/28/2020	0.16			0.0092 (J)			0.0092 (J)		
9/29/2020		0.0031 (J)			<0.02				
9/30/2020						0.032		0.0051 (J)	
10/1/2020			0.025						0.0064 (J)
3/10/2021		<0.02	<0.02	<0.02					<0.02
3/11/2021	0.054								
3/12/2021						<0.02	0.0028 (J)		
3/15/2021									
3/16/2021					<0.02			<0.02	
9/21/2021	<0.02	<0.02					<0.02		<0.02
9/22/2021			<0.02		0.01			<0.02	
9/23/2021				<0.02		<0.02			
1/31/2022	<0.02						<0.02		
2/1/2022								<0.02	
2/2/2022			<0.02		<0.02				<0.02
2/3/2022		<0.02		<0.02		<0.02			
8/30/2022	0.011 (J)				<0.02		<0.02		<0.02
8/31/2022		<0.02				0.00395 (J)			
9/1/2022			0.0163 (J)	0.00578 (J)				0.0119 (J)	
1/31/2023	0.00457 (J)						<0.02		
2/1/2023		<0.02	<0.02					<0.02	
2/2/2023				<0.02	<0.02	<0.02			<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-20	GWC-22	GWC-21
9/29/2000	<0.02	<0.02	0.026 (O)		0.38 (O)	<0.02 (O)			
11/21/2000	<0.02	<0.02	<0.02	0.021 (O)	0.077 (O)	0.024 (O)			
1/20/2001	<0.02	<0.02	0.031 (O)	<0.02	0.23 (O)	<0.02 (O)			
3/14/2001	<0.02	<0.02	0.063 (O)	<0.02	0.24 (O)	<0.02 (O)			
7/16/2001	<0.02	<0.02	0.08 (O)	<0.02	0.053 (O)	<0.02 (O)			
11/1/2001	<0.02	0.044 (O)	0.16 (O)	<0.02	0.022 (O)	<0.02 (O)			
4/25/2002	<0.02	<0.02	<0.02	<0.02	1.2 (O)	<0.02 (O)			
11/20/2002	0.014	0.023	0.14 (O)	<0.02	0.045 (O)	0.028 (O)			
6/6/2003	0.012	<0.02	0.51 (O)	<0.02	0.042 (O)	0.032 (O)			
12/12/2003	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01 (O)			
5/26/2004	<0.02	0.035	0.036 (O)	<0.02	<0.02	<0.01 (O)			
12/7/2004	<0.02	0.018	0.069 (O)	<0.02	<0.02	0.012 (O)			
6/21/2005	<0.02	0.014	0.076 (O)	<0.02	<0.02	<0.01 (O)			
12/12/2005	<0.02	0.023	<0.02	0.012	<0.02	<0.01 (O)			
4/4/2006									
6/27/2006	0.0046	0.023	0.01	<0.02	0.012 (O)	0.0071			
8/30/2006									
12/4/2006	0.0071	0.046 (O)	0.0035	<0.02	0.0067	0.0096			
2/15/2007									
6/23/2007	0.005	0.036	0.0032	<0.02	0.025 (O)	0.094 (O)			
9/11/2007									
12/11/2007	0.0033	0.011	0.0079	<0.02	0.0038	0.042 (O)			
3/11/2008									
6/23/2008		0.0091			0.0051				
6/24/2008	0.0037		<0.02	<0.02		0.098 (O)			
11/3/2008									
12/4/2008		0.0038		<0.02	<0.02				
12/5/2008	0.0027		<0.02			0.047 (O)			
3/25/2009									
7/7/2009			<0.02			0.024 (O)			
7/8/2009	0.0048	<0.02		<0.02	<0.02				
9/14/2009									
12/20/2009				<0.02					
12/21/2009	0.0032	0.0032	<0.02		0.013 (O)	0.049 (O)			
3/4/2010									
6/20/2010		<0.02	<0.02	<0.02	<0.02	0.045 (O)			
6/21/2010	0.0028						<0.02	<0.02	0.04 (O)
9/14/2010									
1/6/2011		0.004	<0.02	<0.02					
1/7/2011	0.003				0.004	0.0044	<0.02	0.019	<0.02
4/15/2011									
7/7/2011		0.0037	0.0027		0.0028	0.003	<0.02		
7/8/2011	0.0034						0.086 (JO)	0.1 (O)	0.0044
9/25/2011									
1/17/2012		0.0031	0.0039	<0.02	0.0043				
1/18/2012	0.0049					0.0048	<0.02	0.0051	<0.02
4/4/2012									
7/9/2012		0.003	<0.02	<0.02	<0.02				
7/10/2012	0.0039					<0.02	<0.02	0.01	<0.02
10/9/2012									
1/17/2013		<0.02	<0.02	<0.02	0.0033				
1/18/2013	0.0043					0.0028	0.0032	0.0036	<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-20	GWC-22	GWC-21
4/5/2013									
7/16/2013		0.0029	0.0032		0.0028				
7/17/2013	0.0035			<0.02		<0.02	<0.02	0.0025	<0.02
10/11/2013									
1/13/2014		0.0025	0.0025	0.0025	0.0025				
1/14/2014	0.0025					0.0025	0.0025	0.0025	0.0025
4/3/2014									
7/8/2014		0.0018 (J)			0.002 (J)				
7/9/2014	0.0033		0.00076 (J)	0.00058 (J)		0.00093 (J)			0.00084 (J)
7/10/2014							<0.02	0.024	
10/24/2014									
1/12/2015							<0.02		
1/13/2015		0.0028	0.0036	0.0024 (J)	0.0079				
1/14/2015	0.0067					0.0023 (J)		0.0016 (J)	0.0018 (J)
5/10/2015									
5/11/2015									
7/16/2015		0.0018 (J)	<0.02	<0.02	0.0026				
7/17/2015						<0.02			<0.02
7/18/2015	<0.02						<0.02	0.014	
10/6/2015									
1/17/2016				<0.02			<0.02		<0.02
1/18/2016	0.012	0.0017 (J)	<0.02		0.0025	0.0029		<0.02	
1/19/2016									
4/26/2016									
7/26/2016		0.0028 (J)							
7/27/2016			0.0015 (J)	0.0018 (J)	0.0021 (J)				
7/28/2016						<0.02	<0.02		<0.02
7/29/2016	0.0086 (J)							0.0129	
10/24/2016									
10/25/2016							<0.02		
1/3/2017			<0.02						
1/4/2017					0.0025 (J)		<0.02	0.006 (J)	<0.02
1/5/2017	0.016	0.0021 (J)		<0.02		<0.02			
1/6/2017									
4/3/2017									
4/4/2017				0.0015 (J)			<0.02		0.0015 (J)
4/5/2017	0.0175				0.0026 (J)				
4/6/2017		0.0027 (J)	0.0023 (J)			0.0032 (J)		0.0031 (J)	
7/10/2017					0.0023 (J)				
7/11/2017							<0.02	0.0029 (J)	
7/12/2017		0.0043 (J)	<0.02			0.002 (J)			
7/13/2017	0.0126			0.0014 (J)					0.002 (J)
10/2/2017							<0.02		
10/3/2017									
10/4/2017									
1/9/2018						0.0036 (J)			0.0016 (J)
1/10/2018		0.0021 (J)	0.0022 (J)	<0.02			0.0034 (J)		
1/11/2018	0.012				0.0031 (J)			0.0106	
7/9/2018							<0.02		
7/10/2018			<0.02	<0.02		0.0055 (J)			<0.02
7/11/2018	0.011	0.0039 (J)			0.0036 (J)			0.0057 (J)	
1/16/2019	0.0094 (J)	0.047	<0.02			<0.02			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/20/2023 11:20 AM View: A I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-13	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-20	GWC-22	GWC-21
1/17/2019					0.0032 (J)				<0.02
1/18/2019								0.0024 (J)	
1/21/2019				<0.02			<0.02		
3/25/2019							<0.02		
3/26/2019	0.0057 (J)	0.03	<0.02			<0.02			<0.02
3/27/2019					0.0031 (J)			<0.02	
7/30/2019				0.0067 (J)					
10/7/2019									
10/8/2019		0.053							0.0071 (J)
10/9/2019	0.011		0.0081 (J)	0.005 (J)	0.0057 (J)	0.016 (J)	0.0049 (J)	0.0079 (J)	
4/6/2020									
4/7/2020			<0.02		<0.02	<0.02		<0.02	<0.02
4/8/2020	<0.02	0.023		<0.02			<0.02		
9/28/2020		0.016							
9/29/2020				0.056	0.0074 (J)				
9/30/2020	0.0043 (J)		<0.02			<0.02	0.031	<0.02	0.0096 (J)
10/1/2020									
3/10/2021			<0.02		<0.02	<0.02		<0.02	
3/11/2021	0.0056 (J)								
3/12/2021							<0.02		
3/15/2021		0.039		<0.02					
3/16/2021									<0.02
9/21/2021		0.036	<0.02		<0.02	<0.02		<0.02	
9/22/2021	<0.02			<0.02			<0.02		<0.02
9/23/2021									
1/31/2022									
2/1/2022	0.011						<0.02		<0.02
2/2/2022				<0.02		<0.02			
2/3/2022		0.037	<0.02		<0.02			<0.02	
8/30/2022			<0.02		0.0262	0.0132 (J)	0.0171 (J)		0.00814 (J)
8/31/2022	0.0068 (J)	0.0266						<0.02	
9/1/2022				0.0125 (J)					
1/31/2023									
2/1/2023	0.00583 (J)	0.025	<0.02		0.00334 (J)	0.0121 (J)	<0.02		
2/2/2023				<0.02				<0.02	<0.02

FIGURE E.

Trend Tests - Appendix I - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:23 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-8 (bg)	0	-2.702	-2.58	Yes	75	92	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005887	8.433	2.58	Yes	55	45.45	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002887	-9.162	-2.58	Yes	74	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.01413	349	176	Yes	34	0	n/a	n/a	0.01	NP

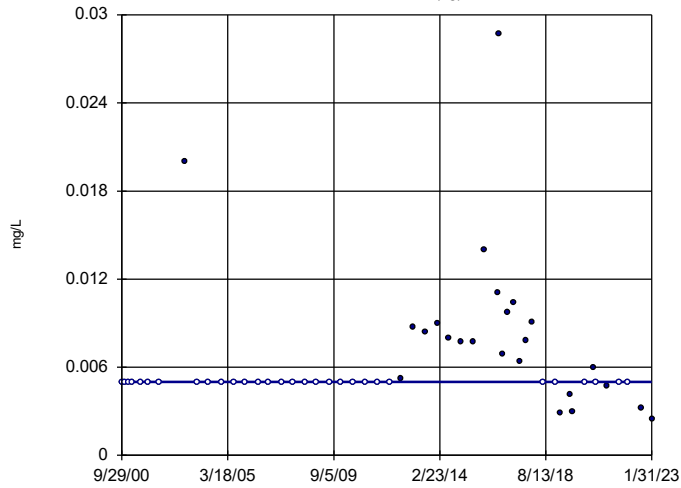
Trend Tests - Appendix I - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:23 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	0	0.1807	2.58	No	54	55.56	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.702	-2.58	Yes	75	92	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.005887	8.433	2.58	Yes	55	45.45	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.0007971	-1.989	-2.58	No	74	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.01129	135	176	No	34	2.941	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-21	0	-3	-161	No	32	46.88	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0	-0.06147	-2.58	No	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002887	-9.162	-2.58	Yes	74	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.01413	349	176	Yes	34	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	-0.000932	-21	-167	No	33	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

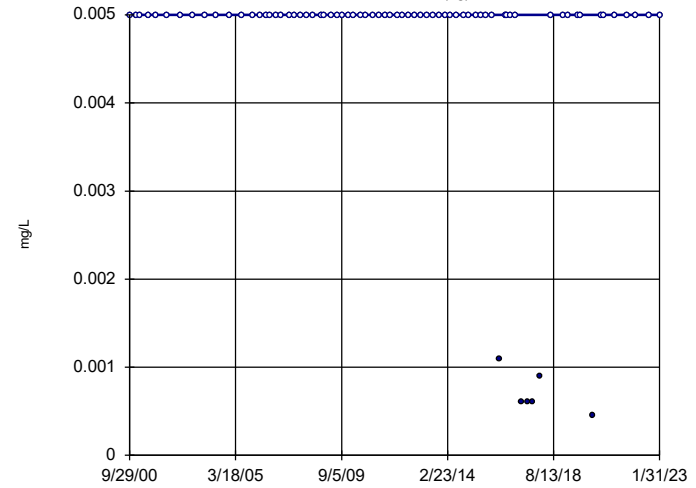


n = 54
Slope = 0
units per year.
Mann-Kendall
normal approx. =
0.1807
critical = 2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A I Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

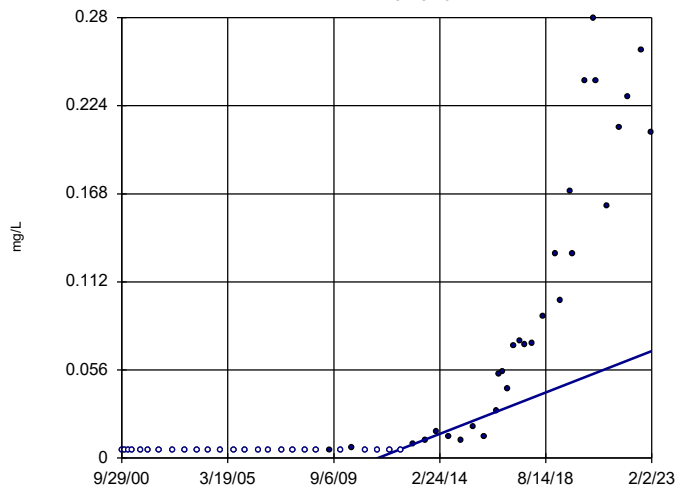


n = 75
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-2.702
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A I Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

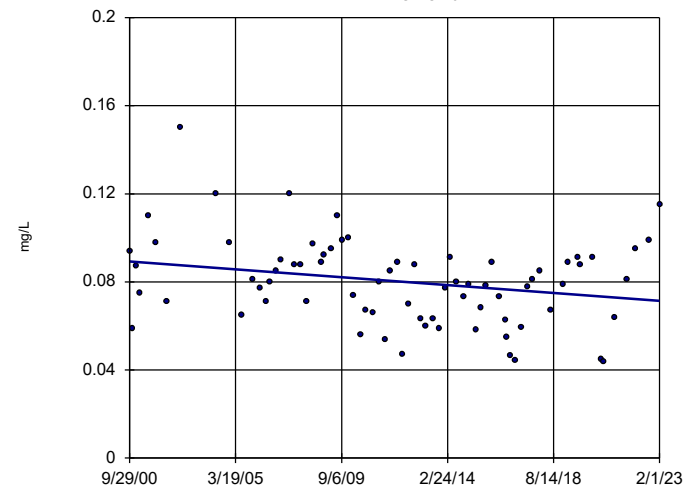


n = 55
Slope = 0.005887
units per year.
Mann-Kendall
normal approx. =
8.433
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A I Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

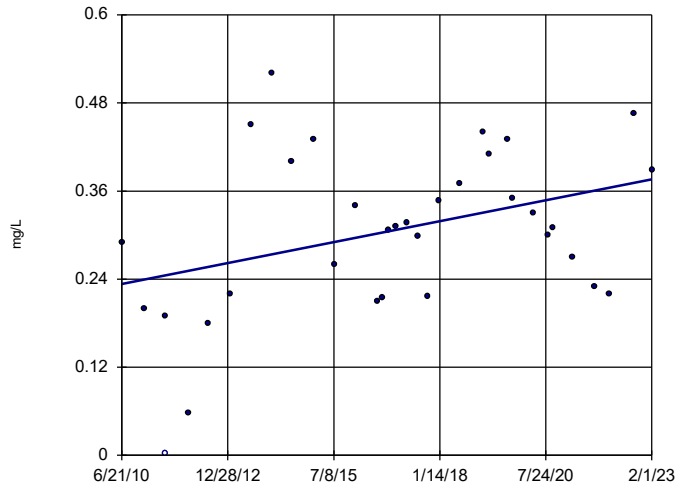


n = 74
Slope = -0.0007971
units per year.
Mann-Kendall
normal approx. =
-1.989
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A I Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

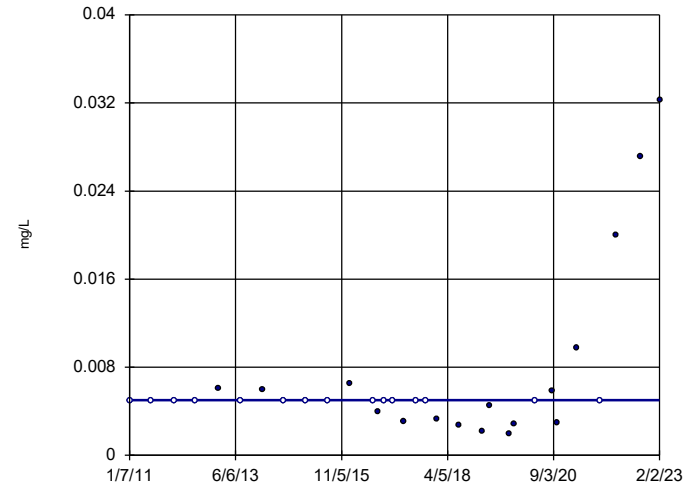


n = 34
Slope = 0.01129
units per year.
Mann-Kendall
statistic = 135
critical = 176
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21

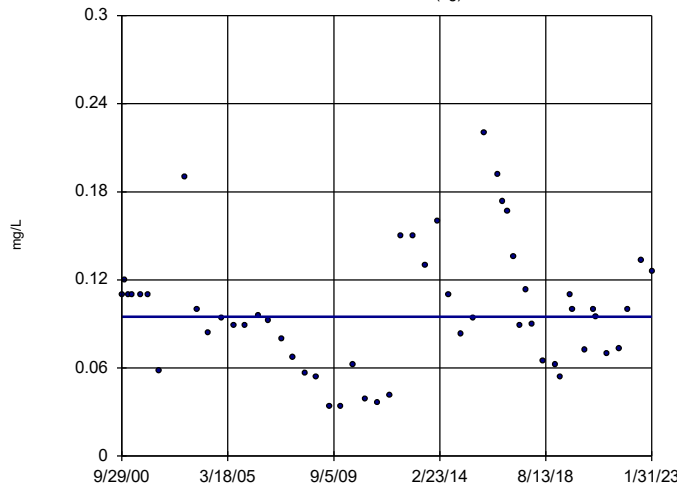


n = 32
Slope = 0
units per year.
Mann-Kendall
statistic = -3
critical = -161
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

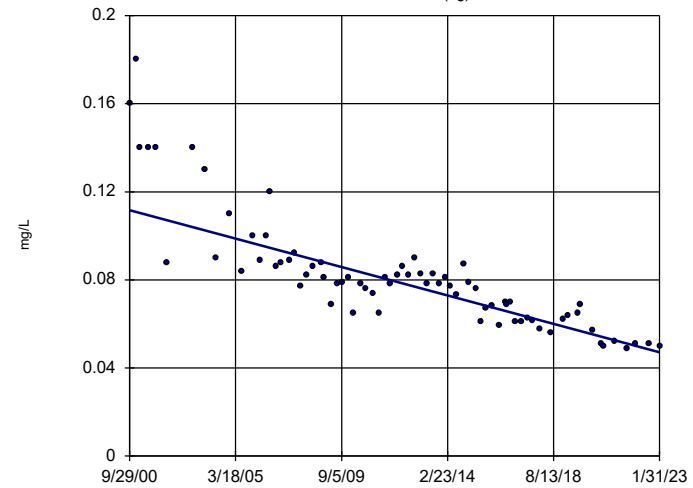


n = 53
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-0.06147
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

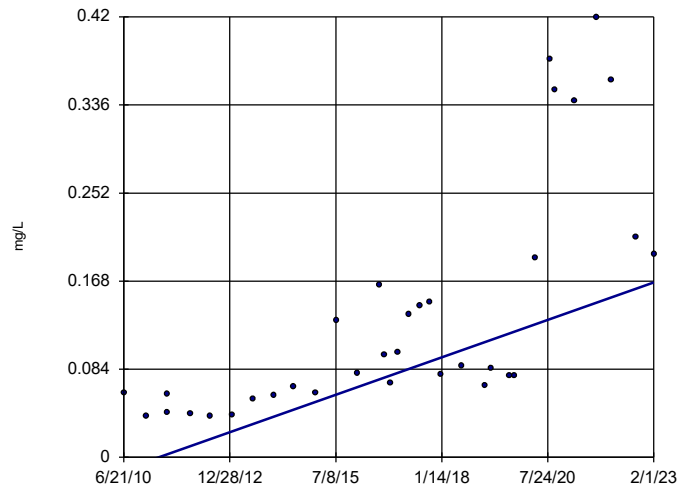


n = 74
Slope = -0.002887
units per year.
Mann-Kendall
normal approx. =
-9.162
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

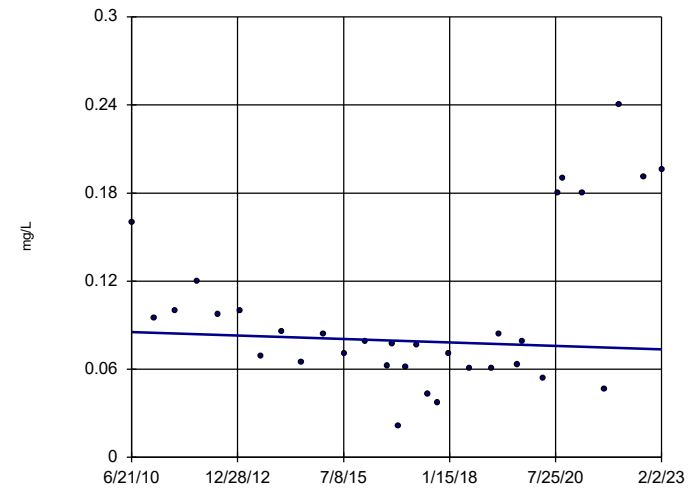


n = 34
Slope = 0.01413
units per year.
Mann-Kendall
statistic = 349
critical = 176
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21



n = 33
Slope = -0.000932
units per year.
Mann-Kendall
statistic = -21
critical = -167
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 4/20/2023 11:20 AM View: A | Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE F.

Interwell Prediction Limits Appendix III - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	2/2/2023	91.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	2/1/2023	38.3	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	2/1/2023	60.4	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	2/1/2023	187	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	2/1/2023	67.5	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	2/2/2023	137	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	2/2/2023	131	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	2/1/2023	294	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	2/1/2023	86.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	2/1/2023	183	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	2/2/2023	123	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	2/1/2023	470	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	2/1/2023	0.604	Yes	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	2/1/2023	3.93	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	2/2/2023	6.65	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	2/2/2023	337	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	2/1/2023	190	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	2/1/2023	842	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	2/1/2023	1090	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	2/1/2023	527	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	2/2/2023	220	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	2/1/2023	1160	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	2/1/2023	547	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	2/1/2023	596	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	2/2/2023	447	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2

Interwell Prediction Limits Appendix III - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND&ND Adj.	Transform	Alpha	Method	
Boron (mg/L)	GWB-4R	21.8	n/a	2/2/2023	5.35	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	2/1/2023	6.19	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	2/1/2023	8.23	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	2/2/2023	0.599	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	2/1/2023	4.49	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	2/1/2023	10.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	2/1/2023	0.208	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	2/2/2023	0.0451	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	2/2/2023	0.679	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	2/1/2023	17.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	2/1/2023	1.83	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	2/2/2023	0.022	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	2/1/2023	11.9	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	2/2/2023	5.15	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	2/2/2023	0.302	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	2/1/2023	0.0186	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	2/2/2023	91.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	2/1/2023	38.3	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	2/1/2023	60.4	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	2/2/2023	35.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	2/1/2023	187	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	2/1/2023	67.5	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	2/1/2023	2.89	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	2/2/2023	137	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	2/2/2023	131	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	2/1/2023	294	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	2/1/2023	86.8	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	2/2/2023	0.143J	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	2/1/2023	183	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	2/2/2023	123	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	2/2/2023	21.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	2/1/2023	4.44	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	2/2/2023	82.4	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	2/1/2023	172	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	2/1/2023	51.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	2/2/2023	6.47	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	2/1/2023	138	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	2/1/2023	64.5	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	2/1/2023	6.17	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	2/2/2023	18.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	2/2/2023	4.69	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	2/1/2023	47.1	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	2/1/2023	470	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	2/2/2023	5.42	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	2/1/2023	15.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	2/2/2023	23.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	2/2/2023	18.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	2/1/2023	18.8	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	2/1/2023	0.0546J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	2/1/2023	0.231	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	2/1/2023	0.0423J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	2/1/2023	0.0702J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	2/1/2023	0.604	Yes	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	2/1/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	2/2/2023	0.1ND	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	2/1/2023	0.0994J	No	40	n/a	n/a	22.5	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	2/2/2023	5.99	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	2/1/2023	5.81	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	2/1/2023	5.54	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	2/2/2023	5.78	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2

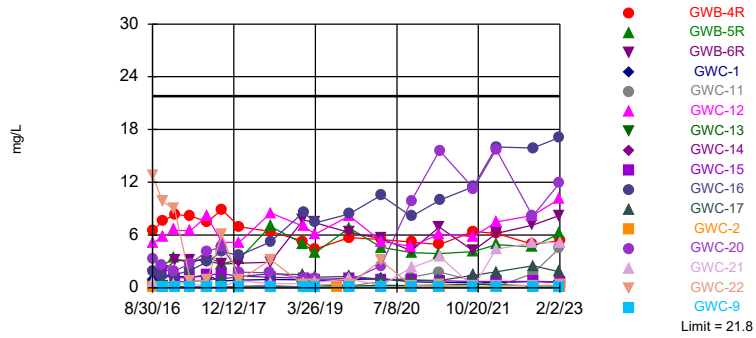
Interwell Prediction Limits Appendix III - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%ND	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-11	6.43	4.23	2/1/2023	4.71	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	2/1/2023	3.93	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.23	2/1/2023	4.86	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	2/2/2023	5.98	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	2/2/2023	6.65	Yes	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.23	2/1/2023	5.23	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	2/1/2023	4.74	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	2/2/2023	4.6	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	2/1/2023	6.01	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	2/2/2023	5.71	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	2/2/2023	4.63	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	2/1/2023	4.57	No	38	n/a	n/a	0	n/a	n/a	0.002389	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	2/2/2023	337	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	2/1/2023	190	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	2/1/2023	842	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	2/2/2023	35.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	2/1/2023	1090	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	2/1/2023	527	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	2/1/2023	34.5	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	2/2/2023	220	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	2/2/2023	34.3	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	2/1/2023	1160	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	2/1/2023	547	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	2/2/2023	11.9	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	2/1/2023	596	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	2/2/2023	447	Yes	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	2/2/2023	71.6	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	2/1/2023	25.2	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	3660	n/a	2/2/2023	1180	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	3660	n/a	2/1/2023	1240	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	3660	n/a	2/1/2023	1570	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	3660	n/a	2/2/2023	166	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	3660	n/a	2/1/2023	2010	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	3660	n/a	2/1/2023	694	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	3660	n/a	2/1/2023	37	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	3660	n/a	2/2/2023	566	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	3660	n/a	2/2/2023	440	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	3660	n/a	2/1/2023	2010	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	3660	n/a	2/1/2023	1470	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	3660	n/a	2/2/2023	5ND	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	3660	n/a	2/1/2023	2290	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	3660	n/a	2/2/2023	775	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	3660	n/a	2/2/2023	113	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	3660	n/a	2/1/2023	59	No	36	n/a	n/a	0	n/a	n/a	0.001311	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

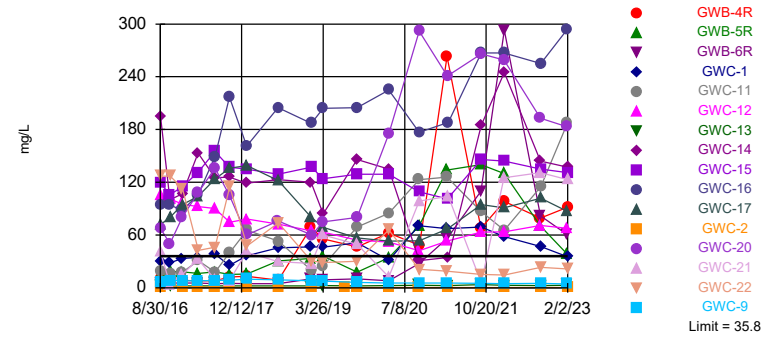


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.04111. Individual comparison alpha = 0.001311 (1 of 2). Comparing 16 points to limit.

Constituent: Boron Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21

Prediction Limit Interwell Non-parametric

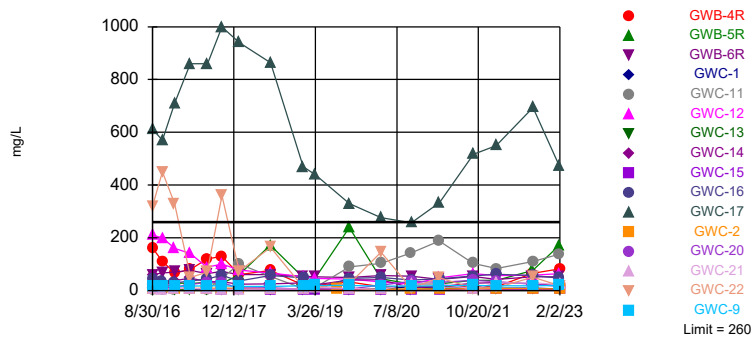


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.04111. Individual comparison alpha = 0.001311 (1 of 2). Comparing 16 points to limit.

Constituent: Calcium Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-17

Prediction Limit Interwell Non-parametric



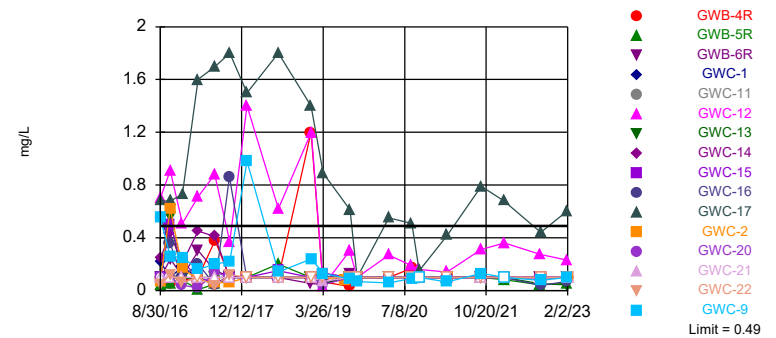
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.04111. Individual comparison alpha = 0.001311 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Exceeds Limit: GWC-17

Prediction Limit Interwell Non-parametric

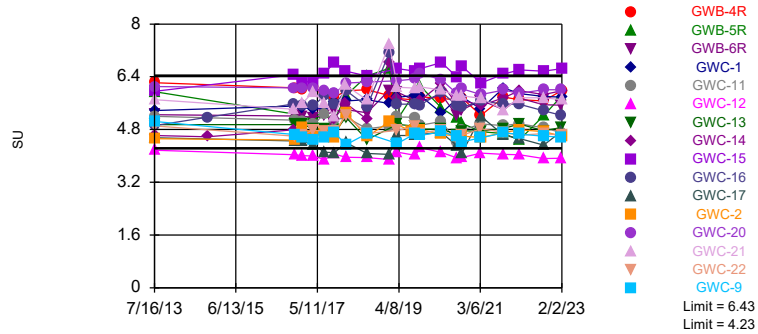


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 22.5% NDs. Annual per-constituent alpha = 0.03395. Individual comparison alpha = 0.001079 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limits: GWC-12, GWC-15

Prediction Limit
Interwell Non-parametric

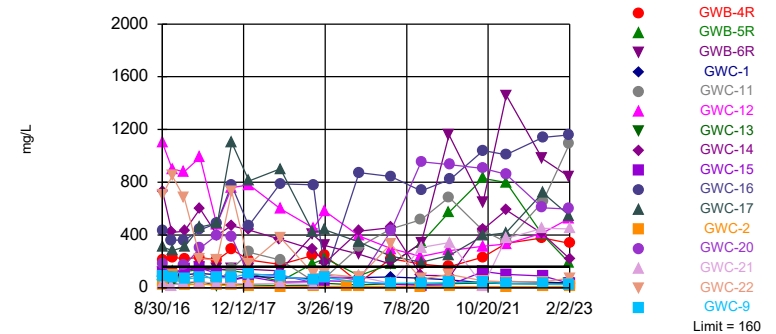


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 38 background values. Annual per-constituent alpha = 0.07506. Individual comparison alpha = 0.002389 (1 of 2). Comparing 16 points to limit.

Constituent: pH Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-4R, GWC-5R, GWC-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21

Prediction Limit
Interwell Non-parametric

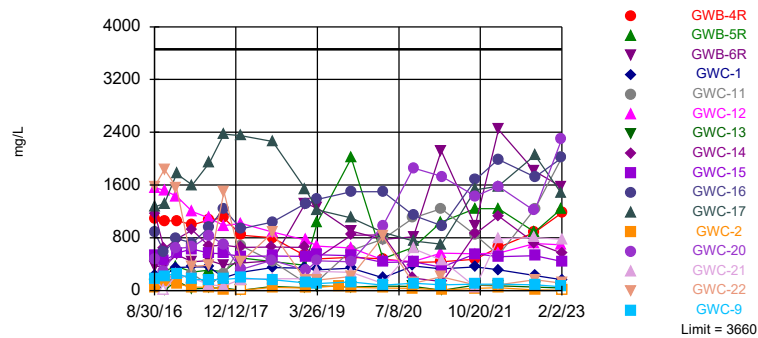


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.04111. Individual comparison alpha = 0.001311 (1 of 2). Comparing 16 points to limit.

Constituent: Sulfate Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.04111. Individual comparison alpha = 0.001311 (1 of 2). Comparing 16 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/23/2023 1:26 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-22	GWC-2
8/30/2016	1.41	0.875	1.09	0.117					
8/31/2016					0.0688 (J)	5.1	0.261	12.8	0.0196 (J)
9/1/2016									
10/24/2016				0.126					
10/25/2016		1.22							
10/26/2016	1.83		2.5		0.083 (J)	5.74	0.211	9.81	0.05 (J)
10/27/2016									
1/3/2017			3.39	0.124					
1/4/2017		1.3			0.0738	6.56		8.94	
1/5/2017	3.07						0.179		0.0162 (J)
1/6/2017									
4/3/2017				0.105					
4/4/2017		1.19							0.019 (J)
4/5/2017						6.49			
4/6/2017	3.19		2.76		0.0754		0.112	0.733	
7/10/2017						8.13			
7/11/2017				0.136	0.0614			0.852	
7/12/2017	3.06	1.37	3.55				0.0882		
7/13/2017									0.023 (J)
10/2/2017				0.107					
10/3/2017	2.69	0.765	2.72		0.0838				0.0266 (J)
10/4/2017						5.18	0.116	6.05	
1/9/2018	2.81			0.123					
1/10/2018		0.876	3.21				0.101		0.0203 (J)
1/11/2018					0.169	5.16		0.838	
7/9/2018				0.11					
7/10/2018	2.9	0.94	7						0.026 (J)
7/11/2018					0.3	8.5	0.098	3.2	
1/16/2019	7.7	0.91	5	0.13			0.11		
1/17/2019					0.065	7			
1/18/2019								0.37	
1/21/2019									0.018 (J)
3/25/2019				0.098					
3/26/2019	7.4	0.77	4				0.35		
3/27/2019					0.089	6.1		0.37	
7/30/2019									0.02 (J)
10/7/2019				0.12					
10/8/2019					0.22		0.18		
10/9/2019	6.3	0.93	6.8			8.2		0.39	0.024 (J)
4/6/2020				0.14					
4/7/2020	5.6	1	4.6		0.67	5.3		3.1	
4/8/2020							0.28		0.031 (J)
9/28/2020		0.69		0.15			0.24		
9/29/2020					1.2	4.7			0.024 (J)
9/30/2020	4.2		4					0.25	
10/1/2020									
3/10/2021	6.9	0.63	3.9		1.8	6.1		0.32	
3/11/2021									
3/12/2021				0.11					
3/15/2021							0.31		0.084
3/16/2021									
9/21/2021	4.2		4.1	0.13	0.8	5.8	0.38	0.19	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-22	GWC-2
9/22/2021									0.017 (J)
9/23/2021		0.59							
1/31/2022				0.13					
2/1/2022									
2/2/2022	6.2								0.023 (J)
2/3/2022		0.59	4.9		0.1	7.5	0.37	0.18	
8/30/2022	7.13		4.66	0.152		8.21			
8/31/2022					1.65		0.231	0.271	
9/1/2022		0.728							0.0204
1/31/2023				0.177					
2/1/2023	8.23		6.19		4.49	10.1	0.208		
2/2/2023		0.599						0.302	0.022

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-4R	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21	GWC-15	GWC-9
8/30/2016									
8/31/2016									0.096 (JO)
9/1/2016	0.071 (J)	6.48	1.82	0.408	3.34	11.6	0.62	9.01 (O)	
10/24/2016									
10/25/2016	0.0819 (J)		1.26		2.54	21.4	0.0658 (J)	1.66	
10/26/2016		7.57		0.5					
10/27/2016									0.0281 (J)
1/3/2017									
1/4/2017			1.46		1.91		0.36		
1/5/2017	0.0813			0.676				1.1	
1/6/2017		8.34				20.1			0.0189 (J)
4/3/2017								1.21	
4/4/2017	0.0723	8.18			2.77		0.509		
4/5/2017			2	0.69					
4/6/2017						21.8			0.0181 (J)
7/10/2017									
7/11/2017	0.0734				4.14			1.44	
7/12/2017		7.51	2.95						0.0211 (J)
7/13/2017				0.888		16.3	0.126		
10/2/2017	0.0748				4.65			1.59	
10/3/2017			4.15				0.1		
10/4/2017		8.88		1.02		21.5			0.0254 (J)
1/9/2018	0.0679					13.9	0.783	1.35	
1/10/2018			3.68		1.79				
1/11/2018		6.95		1.28					0.018 (J)
7/9/2018	0.061				1.7				
7/10/2018			5.2				0.5	1.2	
7/11/2018		6.4		1.6		11.7			0.02 (J)
1/16/2019	0.046	5.3		1.5		9.3			
1/17/2019			8.6				0.43	1.1	
1/18/2019									0.018 (J)
1/21/2019					1.1				
3/25/2019		4.4			1	8.5			
3/26/2019	0.037 (J)		7.4	1.2			0.61	0.95	
3/27/2019									0.016 (J)
7/30/2019									
10/7/2019									
10/8/2019	0.048		8.4			6.4	1	1.1	
10/9/2019		5.7		1.3	0.79				0.019 (J)
4/6/2020						6.1			
4/7/2020	0.061 (J)	5.5	10.5				0.24	0.96	
4/8/2020				0.99	2.5				0.023 (J)
9/28/2020						4.6			
9/29/2020	0.053								
9/30/2020			8.1	0.86	9.9		2.3	0.86	
10/1/2020		5.2							0.028 (J)
3/10/2021		4.9							0.022 (J)
3/11/2021				0.85		8			
3/12/2021					15.6			0.81	
3/15/2021									
3/16/2021	0.08		10				3.5		
9/21/2021		6.4				4.4			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-4R	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21	GWC-15	GWC-9
9/22/2021	0.052		11.5	1.4	11.3		0.095		0.015 (J)
9/23/2021								0.72	
1/31/2022						3.9			
2/1/2022			16	1.8	15.7		4.4		
2/2/2022	0.044	6.2							0.011 (J)
2/3/2022								0.71	
8/30/2022	0.046	4.95			8.14	5.72	5.08		
8/31/2022				2.51				0.719	
9/1/2022			15.9						0.0187
1/31/2023						5.72			
2/1/2023			17.1	1.83	11.9				0.0186
2/2/2023	0.0451	5.35					5.15	0.679	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
8/30/2016	14.3	4.68	29.4	23.8					
8/31/2016					127	18.8	105	2.77	6.9
9/1/2016									
10/24/2016				22.5					
10/25/2016			28.3						
10/26/2016	18.6	5.45			127	16.6	101	2.25	
10/27/2016									8.2
1/3/2017	18.1			22.1					
1/4/2017			33.4		113	17.6	94.9		
1/5/2017		5.35						2.27	
1/6/2017									7.97
4/3/2017				24.6 (J)					
4/4/2017			34.6						
4/5/2017							92.5		
4/6/2017	16.2	5.41			42.7	30.9		2.04	7.95
7/10/2017							90.3		
7/11/2017				23.5	46	17.7			
7/12/2017	18.1	4.81	38					2.25	8.37
7/13/2017									
10/2/2017				22.7					
10/3/2017	15.2	5.17	25.5			39.8			
10/4/2017					115		74.6	2.19	8.57
1/9/2018		4.73		23.2					
1/10/2018	15.5		36.5					2.28	
1/11/2018					47.6	65.6	78.1		9.78
7/9/2018				24.6 (J)					
7/10/2018	30.6	4.5	45.5						
7/11/2018					73.7	53	72.2	2.3	9.2
1/16/2019	33.3	10.1	46.5	27.7				2.3	
1/17/2019						19.8 (J)	64.7		
1/18/2019					30.6				8.1
1/21/2019									
3/25/2019				31.7					
3/26/2019	36.1	9	46.3					2.4	
3/27/2019					28.8	25.1	63.1		7.7
7/30/2019									
10/7/2019				31.6					
10/8/2019						69.2		2.3	
10/9/2019	17.7	10.1	51.2		30.1		54.2		6
4/6/2020				35.8					
4/7/2020	34.1	7.8	31.1		65.7	84.7	52.1		
4/8/2020								2.5	5.3
9/28/2020			70.7	25.6				2.9	
9/29/2020						123	42		
9/30/2020	70.4	27.5			20.9				
10/1/2020									5.5
3/10/2021	134	55.9	67.2		18.7	126	53.1		5.3
3/11/2021									
3/12/2021				21.4					
3/15/2021								2.4	
3/16/2021									
9/21/2021	140	110		18.5	15.3	87	63.4	3.6	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
9/22/2021									5
9/23/2021			69.1						
1/31/2022				17.2					
2/1/2022									
2/2/2022		293							4.6
2/3/2022	130		58.2		14.6	65.4	63.7	2.7	
8/30/2022	70.3	81.8		15			70.8		
8/31/2022					23.2	115		2.54	
9/1/2022			46.9						5
1/31/2023				14.8					
2/1/2023	38.3	60.4				187	67.5	2.89	4.44
2/2/2023			35.2		21.6				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
8/30/2016									
8/31/2016	0.371 (J)								
9/1/2016		5.59	119	93.8	194	9.91	71.9	40.5	67.2
10/24/2016									
10/25/2016		6.43	106	94.1	100			3.91	50.1
10/26/2016	5.84					8.56	80.3		
10/27/2016									
1/3/2017									
1/4/2017				88.2				15.2	80.4
1/5/2017	0.379 (J)		115		107		94.4		
1/6/2017		8.13				8.18			
4/3/2017			131						
4/4/2017	0.993				153	8.12		32.3	108
4/5/2017				106			104		
4/6/2017		7.72							
7/10/2017									
7/11/2017			155		125				136
7/12/2017				149		8			
7/13/2017	0.388 (J)	4.57					124	8.92	
10/2/2017			137		126				105
10/3/2017	0.251 (J)			217				7.88	
10/4/2017		6.41				12.5	136		
1/9/2018		4.68	135		119			40.5	
1/10/2018	0.177 (J)			161					60.1
1/11/2018						12.9	139		
7/9/2018					123				75.9
7/10/2018	0.17 (J)		129	205				29.8	
7/11/2018		3.9				8.6	122		
1/16/2019		4.3			120	68.8	80.5		
1/17/2019			137	187				27.6	
1/18/2019									
1/21/2019	0.19 (J)								60
3/25/2019		3.9				55.6			74.8
3/26/2019			124	204	84.2		68.8	60.1	
3/27/2019									
7/30/2019	0.43								
10/7/2019									
10/8/2019		3.5	129	205	146			49.5	
10/9/2019	0.18					46.7	56.6		80.1
4/6/2020		3.1							
4/7/2020			129	225	135	62.1		12.5	
4/8/2020	0.24 (J)						53.1		175
9/28/2020		3.3							
9/29/2020	0.18 (J)				30.8				
9/30/2020			109	177			53.5	98.4	292
10/1/2020						48.4			
3/10/2021						263			
3/11/2021		2.4					67		
3/12/2021			101						241
3/15/2021	0.22 (J)								
3/16/2021				188	34.4			104	
9/21/2021		2.7				67.5			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
9/22/2021	0.19 (J)			267	185		94.6	5.8	266
9/23/2021			146						
1/31/2022		3.4							
2/1/2022				267			90.8	125	259
2/2/2022	0.16 (J)				245	98.2			
2/3/2022			144						
8/30/2022		3.56			144	79.3		131	193
8/31/2022			135				102		
9/1/2022	0.236			255					
1/31/2023		3.33							
2/1/2023				294			86.8		183
2/2/2023	0.143 (J)		131		137	91.8		123	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
8/30/2016	31	60	5.5	15					
8/31/2016					320	3.5	210	4.3	17
9/1/2016									
10/24/2016				13					
10/25/2016			5.1						
10/26/2016	24	67			450	2.5	200	4.9	
10/27/2016									17
1/3/2017	29			13					
1/4/2017			6.9		330	3.8	160		
1/5/2017		70						4.1	
1/6/2017									16
4/3/2017				14					
4/4/2017			6.5						
4/5/2017							140		
4/6/2017	27	76			50	7.1		3.7	17
7/10/2017							88		
7/11/2017				13	70	3.1			
7/12/2017	31	64	6.5					2.6	18
7/13/2017									
10/2/2017				15					
10/3/2017	27	73	4.5			46			
10/4/2017					360		100	3	18
1/9/2018		61		13					
1/10/2018	59		6.9					3.4	
1/11/2018					74	100	78		16
7/9/2018				15.4					
7/10/2018	172	60.2	6.2						
7/11/2018					164	53.7	66.9	3.2	16.2
1/16/2019	49.7	54.1	6.6	16				3.8	
1/17/2019						6.6	52		
1/18/2019					11				17.5
1/21/2019									
3/25/2019				17.7					
3/26/2019	47.9	51.8	7					3.2	
3/27/2019					11.5	11.9	45.6		18.9
7/30/2019									
10/7/2019				18					
10/8/2019						89		4	
10/9/2019	239	49.7	7.2		25.3		44.1		19
4/6/2020				13.5					
4/7/2020	44.3	56.4	7.7		146	103	32.5		
4/8/2020								4.5	16.9
9/28/2020			13.8	13.7				4.3	
9/29/2020						143	24.3		
9/30/2020	24.1	53.9			8.5				
10/1/2020									16.8
3/10/2021	25.7	42.4	8.5		48.2	188	48.7		18.3
3/11/2021									
3/12/2021				14.1					
3/15/2021								7.6	
3/16/2021									
9/21/2021	38.8	53.8		12.2	9.4	103	63.8	7.9	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
9/22/2021									19.3
9/23/2021			8.8						
1/31/2022				11.2					
2/1/2022									
2/2/2022		42.3							17.5
2/3/2022	38.5		8		10.8	83.4	57	8.8	
8/30/2022	76.8	52		9.93			58.4		
8/31/2022					51.2	110		6.69	
9/1/2022			9.17						17.6
1/31/2023				11					
2/1/2023	172	51.6				138	64.5	6.17	18.8
2/2/2023			6.47		18.2				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
8/30/2016									
8/31/2016	7.8								
9/1/2016		190	10	43	60	160	610	5.9	16
10/24/2016									
10/25/2016		175 (D)	6.5	34	36			4.4	8.1
10/26/2016	12					110	570		
10/27/2016									
1/3/2017									
1/4/2017				29				7.7	13
1/5/2017	7.4		10		37		710		
1/6/2017		180				67			
4/3/2017			7.3						
4/4/2017	8.7				47	80		8	23
4/5/2017				36			860		
4/6/2017		200							
7/10/2017									
7/11/2017			5.7		34				31
7/12/2017				44		120			
7/13/2017	8.3	200					860	5.4	
10/2/2017			4.4		34				30
10/3/2017	9			58				4.4	
10/4/2017		260				130	1000		
1/9/2018		210	5.7		24			4.4	
1/10/2018	8.2			36					9.7
1/11/2018						60	940		
7/9/2018					25.9				10.8
7/10/2018	7.3		3.1	57				6.3	
7/11/2018		177				75.9	864		
1/16/2019		165			29.2	20.2	469		
1/17/2019			3.2	48.9				5.4	
1/18/2019									
1/21/2019	6.9								5.1
3/25/2019		147				19.7			9.4
3/26/2019			3	5.1	21.1		439	11.9	
3/27/2019									
7/30/2019	7.1								
10/7/2019									
10/8/2019		125	2.9	46.4	40.2			7.8	
10/9/2019	7					32.1	330		5.4
4/6/2020		30.2							
4/7/2020			3.4	49.3	41.6	14.5		4.7	
4/8/2020	5.2						277		20.2
9/28/2020		113							
9/29/2020	5.4				10.6				
9/30/2020			1.7	39.6			257	23.7	34.9
10/1/2020						15.7			
3/10/2021						16			
3/11/2021		96.7					334		
3/12/2021			2.3						31.9
3/15/2021	6.4								
3/16/2021				44.9	15.8			25.3	
9/21/2021		92.2				13.9			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
9/22/2021	7.4			55.8	28		517	6	38.9
9/23/2021			7.1						
1/31/2022		83.4							
2/1/2022				61.5			549	29.3	33.4
2/2/2022	6.9				29.6	14.5			
2/3/2022			5.1						
8/30/2022		74.4			26.7	65		29.4	24.4
8/31/2022			4.83				694		
9/1/2022	6.59			57.2					
1/31/2023		70.1							
2/1/2023				47.1			470		15.3
2/2/2023	5.42		4.69		18.2	82.4		23.3	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-9	GWC-12	GWC-13	GWC-22
8/30/2016	0.09 (J)	0.22 (J)	0.04 (J)	0.1 (J)					
8/31/2016					<0.1	0.55	0.7	<0.1	0.04 (J)
9/1/2016									
10/24/2016				0.18 (J)					
10/25/2016		<0.1							
10/26/2016	0.24 (J)		0.05 (J)		<0.1		0.91	0.55	0.12 (J)
10/27/2016						0.26 (J)			
1/3/2017			0.08 (J)	0.18 (J)					
1/4/2017		0.18 (J)			<0.1		0.51		0.06 (J)
1/5/2017	0.11 (J)							0.09 (J)	
1/6/2017						0.25 (J)			
4/3/2017				0.12 (J)					
4/4/2017		<0.1							
4/5/2017							0.71		
4/6/2017	0.3		0.006 (J)		<0.1	0.16 (J)		<0.1	<0.1
7/10/2017							0.88		
7/11/2017				0.39	<0.1				0.03 (J)
7/12/2017	0.15 (J)	0.04 (J)	0.05 (J)			0.2 (J)		<0.1	
7/13/2017									
10/2/2017				0.12 (J)					
10/3/2017	0.11 (J)	<0.1	0.11 (J)		<0.1				
10/4/2017						0.22 (J)	0.37	<0.1	0.12 (J)
1/9/2018	<0.1			0.21 (J)					
1/10/2018		<0.1	<0.1					<0.1	
1/11/2018					<0.1	0.98	1.4		<0.1
7/9/2018				0.04 (J)					
7/10/2018	<0.1	<0.1	0.2 (J)						
7/11/2018					<0.1	0.14 (J)	0.62	<0.1	<0.1
1/16/2019	0.053 (J)	<0.1	<0.1	<0.1				<0.1	
1/17/2019					<0.1		1.2		
1/18/2019						0.24 (J)			<0.1
1/21/2019									
3/25/2019				0.082 (J)					
3/26/2019	0.046 (J)	0.051 (J)	<0.1					0.052 (J)	
3/27/2019					<0.1	0.13 (J)	0.036 (J)		<0.1
7/30/2019									
8/26/2019				0.13					
8/27/2019	0.13 (J)	<0.1			<0.1		0.3	<0.1	0.1
8/28/2019			0.097 (J)			0.088 (J)			
10/7/2019				<0.1					
10/8/2019					<0.1			<0.1	
10/9/2019	<0.1	<0.1	<0.1			0.068 (J)	<0.1		<0.1
4/6/2020				0.089 (J)					
4/7/2020	<0.1	<0.1	<0.1		<0.1		0.27 (J)		<0.1
4/8/2020						0.058 (J)		<0.1	
8/17/2020				0.079 (J)			0.19	<0.1	
8/18/2020					<0.1				<0.1
8/19/2020	<0.1	<0.1	<0.1			0.092 (J)			
9/28/2020		<0.1		<0.1				<0.1	
9/29/2020					<0.1		0.16		
9/30/2020	<0.1		<0.1						<0.1
10/1/2020						<0.1			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-9	GWC-12	GWC-13	GWC-22
3/10/2021	<0.1	<0.1	<0.1		<0.1	0.066 (J)	0.14		<0.1
3/11/2021									
3/12/2021				0.087 (J)					
3/15/2021								<0.1	
3/16/2021									
9/21/2021	<0.1		<0.1	0.068 (J)	<0.1		0.31	<0.1	<0.1
9/22/2021						0.13			
9/23/2021		<0.1							
1/31/2022				0.09 (J)					
2/1/2022									
2/2/2022	<0.1					<0.1			
2/3/2022		<0.1	0.081 (J)		<0.1		0.36	<0.1	<0.1
8/30/2022	<0.1		0.0428 (J)	0.0759 (J)			0.273		
8/31/2022					<0.1			0.051 (J)	<0.1
9/1/2022		<0.1				0.0783 (J)			
1/31/2023				0.0842 (J)					
2/1/2023	<0.1		0.0546 (J)		<0.1	0.0994 (J)	0.231	0.0423 (J)	
2/2/2023		<0.1							<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-14	GWB-4R	GWC-15	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21
8/30/2016									
8/31/2016	0.07 (J)								
9/1/2016		0.25 (J)	<0.1	<0.1	0.55	0.68	<0.1	<0.1	<0.1
10/24/2016									
10/25/2016		0.43		0.5	0.36		<0.1	0.07 (J)	<0.1
10/26/2016	0.62		0.05 (J)			0.68			
10/27/2016									
1/3/2017									
1/4/2017					0.1 (J)		0.04 (J)		<0.1
1/5/2017	0.17 (J)	0.21 (J)		0.22 (J)		0.73			
1/6/2017			0.08 (J)					0.2 (J)	
4/3/2017				<0.1					
4/4/2017	0.08 (J)	0.45	<0.1				0.02 (J)		<0.1
4/5/2017					0.2 (J)	1.6			
4/6/2017								0.05 (J)	
7/10/2017									
7/11/2017		0.41		0.06 (J)			0.14 (J)		
7/12/2017			0.38		0.04 (J)				
7/13/2017	0.06 (J)					1.7		0.41	<0.1
10/2/2017		<0.1		<0.1			<0.1		
10/3/2017	0.06 (J)				0.86				<0.1
10/4/2017			<0.1			1.8		0.04 (J)	
1/9/2018		<0.1		<0.1				0.46	<0.1
1/10/2018	<0.1				<0.1		<0.1		
1/11/2018			<0.1			1.5			
7/9/2018		<0.1					<0.1		
7/10/2018	<0.1			0.15 (J)	<0.1				<0.1
7/11/2018			<0.1			1.8		<0.1	
1/16/2019		<0.1	1.2			1.4		0.49	
1/17/2019				<0.1	<0.1				<0.1
1/18/2019									
1/21/2019	<0.1						<0.1		
3/25/2019			0.064 (J)				0.043 (J)	0.21 (J)	
3/26/2019		0.13 (J)		0.13 (J)	0.11 (J)	0.89			0.071 (J)
3/27/2019									
7/30/2019	0.083 (J)								
8/26/2019								<0.1	
8/27/2019	<0.1	<0.1	0.031 (J)	<0.1					
8/28/2019					<0.1	0.61	<0.1		<0.1
10/7/2019									
10/8/2019		<0.1		<0.1	<0.1			<0.1	<0.1
10/9/2019	<0.1		<0.1			<0.1	<0.1		
4/6/2020								0.13 (J)	
4/7/2020		<0.1	<0.1	<0.1	<0.1				<0.1
4/8/2020	<0.1					0.55	<0.1		
8/17/2020									
8/18/2020	<0.1	<0.1		<0.1	<0.1	0.51	<0.1		<0.1
8/19/2020			0.17					0.21	
9/28/2020								0.069 (J)	
9/29/2020	<0.1	<0.1							
9/30/2020				<0.1	<0.1	0.15	<0.1		<0.1
10/1/2020			<0.1						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-14	GWB-4R	GWC-15	GWC-16	GWC-17	GWC-20	GWA-7 (bg)	GWC-21
3/10/2021			<0.1						
3/11/2021						0.42		<0.1	
3/12/2021				<0.1			<0.1		
3/15/2021	<0.1								
3/16/2021		<0.1			<0.1				<0.1
9/21/2021			<0.1					0.077 (J)	
9/22/2021	<0.1	<0.1			<0.1	0.79	<0.1		<0.1
9/23/2021				<0.1					
1/31/2022								<0.1	
2/1/2022					<0.1	0.68	<0.1		<0.1
2/2/2022	<0.1	<0.1	<0.1						
2/3/2022				<0.1					
8/30/2022		<0.1	<0.1				<0.1	0.0391 (J)	<0.1
8/31/2022				<0.1		0.442			
9/1/2022	<0.1				0.0374 (J)				
1/31/2023								0.051 (J)	
2/1/2023					0.0702 (J)	0.604	<0.1		
2/2/2023	<0.1	<0.1	<0.1	<0.1					<0.1

Prediction Limit

Constituent: pH (SU) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
7/16/2013	4.62	5.25	5.38	5.2	4.17	4.95	5.96	5.95	4.92
10/11/2014	4.58								5.17
10/24/2016									
10/25/2016	4.79		5.51				6.46		5.58
10/26/2016		5.21		5.08	4.04	4.95		5.27	
10/27/2016									
1/3/2017								5.09	
1/4/2017			5.46	5.06	4.01				5.51
1/5/2017	4.73	5.2				4.97	6.25		
1/6/2017									
4/3/2017							6.25		
4/4/2017	4.68		5.43						
4/5/2017					4	4.81			5.51
4/6/2017		5.17		4.97				5.22	
7/10/2017					3.89				
7/11/2017	4.72			5.26			6.5		
7/12/2017		5.24	5.46			4.83		5.29	5.84
7/13/2017									
10/2/2017	5.13						6.83		
10/3/2017		5.36	5.65	5.07				5.08	5.55
10/4/2017					4.06	4.71			
1/9/2018	5.59	5.4					6.57		
1/10/2018			5.67			5.17		5.83	5.99
1/11/2018				5.18	3.96				
7/9/2018	5.11								
7/10/2018		5.31	5.71				6.42	6.42	5.5
7/11/2018				4.82	3.95	4.49			
1/16/2019	6.82	5.99	5.59			6.45 (O)		6.66	
1/17/2019				4.91	3.89		8.44 (O)		7.13
1/18/2019									
1/21/2019									
3/25/2019									
3/26/2019	5.74	5.94	5.77			4.96	6.65	5.1	5.57
3/27/2019				5.18	4.11				
7/30/2019									
8/26/2019									
8/27/2019	5.58	5.67	5.84	5.17	4.02	4.9	6.57		
8/28/2019								5.95	5.57
10/7/2019									
10/8/2019	5.68			4.93		4.81	6.65		5.54
10/9/2019		5.66	5.82		4.25			6.11	
4/6/2020									
4/7/2020	6.2	5.86	5.3	5.05	4.1		6.83	5.45	5.94
4/8/2020						4.81			
8/17/2020					3.94	4.65			
8/18/2020	5.56			4.41			6.39		5.52
8/19/2020		5.21	5.73					5.14 (D)	
9/28/2020			5.79			4.76			
9/29/2020	5.69			4.77	3.95				
9/30/2020		5.39					6.71	4.99	5.47
10/1/2020									
3/10/2021		5.69	5.42	4.97	4.08			4.73	

Prediction Limit

Constituent: pH (SU) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
3/11/2021									
3/12/2021							6.21		
3/15/2021						4.74			
3/16/2021	5.53								5.67
9/21/2021		5.4		4.92	4.05	4.83		4.68	
9/22/2021	5.76								5.57
9/23/2021			6.06				6.48		
1/31/2022									
2/1/2022									5.57
2/2/2022	5.98	5.75							
2/3/2022			5.89	4.98	4.04	4.97	6.61	4.48	
8/30/2022	5.86	5.55			3.92			5.22	
8/31/2022				4.85		4.76	6.57		
9/1/2022			5.8						5.37
1/31/2023									
2/1/2023		5.54		4.71	3.93	4.86		5.81	5.23
2/2/2023	5.98		5.78				6.65		

Prediction Limit

Constituent: pH (SU) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
7/16/2013	6.22	4.55	4.52	6.1	5.71	4.91	5.05		
10/11/2014								4.42	
10/24/2016								4.36	
10/25/2016				6.06	5.41				6.17
10/26/2016	6.06	4.45	4.48			4.6			
10/27/2016							4.65		
1/3/2017								4.28	
1/4/2017				6.05	5.6	4.63			
1/5/2017		4.45	4.85						
1/6/2017	6.02						4.56		6.16
4/3/2017								4.29	
4/4/2017	6.08		4.58	6.03	5.94				
4/5/2017		4.33							
4/6/2017						4.79	4.5		6.26
7/10/2017									
7/11/2017				5.96		4.73		4.35	
7/12/2017	5.93						4.56		
7/13/2017		4.11	4.74		5.6				5.99
10/2/2017				5.88				4.32	
10/3/2017			4.57		5.18				
10/4/2017	5.77	4.09				4.74	4.72		6.16
1/9/2018					6.14			4.44	6.43
1/10/2018			5.31	6.21					
1/11/2018	5.98	4.4				5.22	4.34		
7/9/2018				6.24				4.4	
7/10/2018			4.58		5.7				
7/11/2018	6.01	4.07				4.68	4.68		6.1
1/16/2019	5.83	4.05						6.16 (O)	6.05
1/17/2019					7.39				
1/18/2019						6.98 (O)	6.87 (O)		
1/21/2019			5.05	7.73 (O)					
3/25/2019	5.74			6.28				4.4	6.06
3/26/2019		4.62			6.08				
3/27/2019						4.77	4.38		
7/30/2019			4.74						
8/26/2019								4.26	5.91
8/27/2019	5.7		4.77			4.89			
8/28/2019		4.62		6.34	6.05		4.68		
10/7/2019								4.24	
10/8/2019					6.09				5.74
10/9/2019	5.79	4.66	4.79	6.5		4.68	4.62		
4/6/2020								4.52	6.02
4/7/2020	5.74				6	4.8			
4/8/2020		4.71	4.66	6.31			4.73		
8/17/2020								4.23	
8/18/2020		4.31	4.6	5.89	5.82	4.52			
8/19/2020	5.7						4.58		5.81 (D)
9/28/2020								4.41	5.86
9/29/2020			4.6						
9/30/2020		4.08		6.04	5.82	4.63			
10/1/2020	5.75						4.42		
3/10/2021	5.23					4.82	4.55		

Prediction Limit

Constituent: pH (SU) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
3/11/2021		5.2							5.85
3/12/2021				5.86				4.54	
3/15/2021			4.56						
3/16/2021					5.74				
9/21/2021	5.78					4.72		4.44	6.03
9/22/2021		4.63	4.71	6	5.39		4.7		
9/23/2021									
1/31/2022								4.39	5.94
2/1/2022		4.53		5.9	5.76				
2/2/2022	5.71		4.79				4.66		
2/3/2022						4.63			
8/30/2022	5.67			6.01	5.76			4.58	5.98
8/31/2022		4.33				4.68			
9/1/2022			4.73				4.6		
1/31/2023								4.6	6.02
2/1/2023		4.74		6.01			4.57		
2/2/2023	5.99		4.6		5.71	4.63			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
8/30/2016	100	120	87	140					
8/31/2016					700	64	1100	43	84
9/1/2016									
10/24/2016				160					
10/25/2016			83						
10/26/2016	130	120			850	56	900	29	
10/27/2016									76
1/3/2017	120			140					
1/4/2017			99		680	65	880		
1/5/2017		130						32	
1/6/2017									66
4/3/2017				140					
4/4/2017			110						
4/5/2017							990		
4/6/2017	140	150			220	110		49	79
7/10/2017							480		
7/11/2017				130	210	49			
7/12/2017	140	140	100					16	75
7/13/2017									
10/2/2017				150					
10/3/2017	130	140	63			140			
10/4/2017					730		760	33	78
1/9/2018		140		120					
1/10/2018	110		86					22	
1/11/2018					180	270	780		110
7/9/2018				123					
7/10/2018	48.1	128	77.7						
7/11/2018					381	211	598	17.8	87.4
1/16/2019	184	402	71.2	129				20.2	
1/17/2019						50.3	454		
1/18/2019					107				56.9
1/21/2019									
3/25/2019				152					
3/26/2019	222	319	73.8					33.6	
3/27/2019					103	76.8	579		76.2
7/30/2019									
10/7/2019				156					
10/8/2019						310		22	
10/9/2019	90.8	255	76.3		80.2		392		41.1
4/6/2020				123					
4/7/2020	180	180	83		333	446	297		
4/8/2020								30.7	34.2
9/28/2020			71.6	93.6				25.6	
9/29/2020						516	237		
9/30/2020	339	339			65.5				
10/1/2020									35
3/10/2021	572	1160	61.2		101	687	282		38.7
3/11/2021									
3/12/2021				103					
3/15/2021								30.6	
3/16/2021									
9/21/2021	829	645		96.5	52.4	433	315	36.6	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-22	GWC-11	GWC-12	GWC-13	GWC-9
9/22/2021									42.7
9/23/2021			37.3						
1/31/2022				89.7					
2/1/2022									
2/2/2022		1460							31.5
2/3/2022	797		49.2		46.2	347	333	32.1	
8/30/2022	403	978		77.4			415		
8/31/2022					45.3	653		29	
9/1/2022			44						28.7
1/31/2023				79.3					
2/1/2023	190	842				1090	527	34.5	25.2
2/2/2023			35.3		71.6				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
8/30/2016									
8/31/2016	21								
9/1/2016		73	120	430	730	210	310	36	180
10/24/2016									
10/25/2016		26	100	360	420			16	79
10/26/2016	100					230	280		
10/27/2016									
1/3/2017									
1/4/2017				360				45	170
1/5/2017	22		140		430		310		
1/6/2017		23				220			
4/3/2017			150						
4/4/2017	29				600	230		46	300
4/5/2017				440			460		
4/6/2017		25							
7/10/2017									
7/11/2017			110		400				400
7/12/2017				490		210			
7/13/2017	20	65					490	33	
10/2/2017			56		470				390
10/3/2017	20			780				34	
10/4/2017		13				290	1100		
1/9/2018		45	84		440			29	
1/10/2018	9.5			470					99
1/11/2018						210	810		
7/9/2018					369				99.2
7/10/2018	8.5		43	787				33.2	
7/11/2018		37.7				177	902		
1/16/2019		24.5			291	244	422		
1/17/2019			45.2	780				24.1	
1/18/2019									
1/21/2019	10.2								35.5
3/25/2019		14.7				245			95.6
3/26/2019			54	87.9	192		439	83.9	
3/27/2019									
7/30/2019	12.3								
10/7/2019									
10/8/2019		32.8	45.8	872	428			85.6	
10/9/2019	10.1					38.5	346		58.5
4/6/2020		20.3							
4/7/2020			26.9	844	456	221		33.2	
4/8/2020	12.9						239		428
9/28/2020		20							
9/29/2020	8.6				93.5				
9/30/2020			18.5	736			193	306	956
10/1/2020						178			
3/10/2021						160			
3/11/2021		12					244		
3/12/2021			21.1						933
3/15/2021	10								
3/16/2021				821	92			343	
9/21/2021		11.1				232			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWA-7 (bg)	GWC-15	GWC-16	GWC-14	GWB-4R	GWC-17	GWC-21	GWC-20
9/22/2021	10.3			1040	444		394	14.6	905
9/23/2021			124						
1/31/2022		15							
2/1/2022				1010			416	374	862
2/2/2022	9				589	338			
2/3/2022			102						
8/30/2022		10.6			410	379		451	606
8/31/2022			88.5				721		
9/1/2022	10.3			1140					
1/31/2023		7.88							
2/1/2023				1160			547		596
2/2/2023	11.9		34.3		220	337		447	

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-9	GWC-22	GWC-2	GWC-11	GWC-12
8/30/2016	234	224	365	225					
8/31/2016					173	1570	39	119	1560
9/1/2016									
10/24/2016	216								
10/25/2016				230					
10/26/2016		297	373			1840	135	108	1520
10/27/2016					221				
1/3/2017	333	366							
1/4/2017				349		1560		182	1430
1/5/2017			543				99		
1/6/2017					259				
4/3/2017	288								
4/4/2017				356			54		
4/5/2017									1200
4/6/2017		279	434		169	368		248	
7/10/2017									1100
7/11/2017	188					383		88	
7/12/2017		308	454	357	163				
7/13/2017							50		
10/2/2017	210								
10/3/2017		288	389	192			18 (J)	248	
10/4/2017					168	1500			986
1/9/2018	118		415						
1/10/2018		493		277			<10		
1/11/2018					190	438		681	1020
7/9/2018	235								
7/10/2018		1730 (O)	453	349			49		
7/11/2018					165	876		440	888
1/16/2019	219	382	1320	341					
1/17/2019								118	765
1/18/2019					118	154			
1/21/2019							39		
3/25/2019	240								
3/26/2019		1040	1250	317					
3/27/2019					104	158		138	673
7/30/2019							70		
10/7/2019	275								
10/8/2019								613	
10/9/2019		2010	903	338	128	211	46		647
4/6/2020	214								
4/7/2020		483	775	195		819		780	464
4/8/2020					80		38		
9/28/2020	175			373					
9/29/2020							33	1100	440
9/30/2020		652	816			113			
10/1/2020					111				
3/10/2021		1040	2120	329	89	210		1240	566
3/11/2021									
3/12/2021	163								
3/15/2021							11		
3/16/2021									
9/21/2021	145	1240	985			87		842	558

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWB-6R	GWC-1	GWC-9	GWC-22	GWC-2	GWC-11	GWC-12
9/22/2021					94		33		
9/23/2021				360					
1/31/2022	153								
2/1/2022									
2/2/2022			2440		96		43		
2/3/2022		1240		315		89		538	566
8/30/2022	154	886	1810						713
8/31/2022						163		1240	
9/1/2022				228	85		9 (J)		
1/31/2023	122								
2/1/2023		1240	1570		59			2010	694
2/2/2023				166		113	<10		

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWB-4R	GWA-7 (bg)	GWC-14
8/30/2016									
8/31/2016	77								
9/1/2016		539	878	1270	470	184	1080	3660	1170
10/24/2016									
10/25/2016		449	585		289	<10		3560	633
10/26/2016	<10			1320			1050		
10/27/2016									
1/3/2017									
1/4/2017			783		639	242			
1/5/2017	146	565		1770					781
1/6/2017							1060	3490	
4/3/2017		632							
4/4/2017					660	187	994		916
4/5/2017			722	1600					
4/6/2017	23 (J)							3170	
7/10/2017									
7/11/2017		569			836				675
7/12/2017	39		962				1070		
7/13/2017				1940		86		2280	
10/2/2017		559			698				689
10/3/2017			1240			66			
10/4/2017	38			2370			1100	3350	
1/9/2018		520				167		2640	653
1/10/2018	<10		935		322				
1/11/2018				2350			838		
7/9/2018					461				659
7/10/2018		524	1040			180			
7/11/2018	63			2260			799	2200	
1/16/2019	44			1540			530	2100	656
1/17/2019		518 (D)	1320			178			
1/18/2019									
1/21/2019					307				
3/25/2019					449		479	2100	
3/26/2019	72	541	1380	1220		292			496
3/27/2019									
7/30/2019									
10/7/2019									
10/8/2019	51	526	1500			278		1840	841
10/9/2019				1100	434		502		
4/6/2020								1670	
4/7/2020		428	1500			106	482		843
4/8/2020	65			881	986				
9/28/2020	60							1450	
9/29/2020									187
9/30/2020		434	1140	752	1860	634			
10/1/2020							424		
3/10/2021							434		
3/11/2021				705				1220	
3/12/2021		353			1730				
3/15/2021	<10								
3/16/2021			980			454			137
9/21/2021	83						476	1210	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/23/2023 1:30 PM View: A III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWB-4R	GWA-7 (bg)	GWC-14
9/22/2021			1680	1530	1430	51			864
9/23/2021		556							
1/31/2022								1260	
2/1/2022			1990	1580	1580	783			
2/2/2022							654		1130
2/3/2022	72	516							
8/30/2022					1210	807	882	1340	720
8/31/2022	55	530		2050					
9/1/2022			1720						
1/31/2023								1230	
2/1/2023	37		2010	1470	2290				
2/2/2023		440				775	1180		566

FIGURE G.

Trend Tests - Appendix III Exceedances - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.5878	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.76	99	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	9.584	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	7.457	94	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	18.29	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-8.464	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.72	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	28.25	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	17.02	70	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-21.96	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.009757	-88	-81	Yes	20	15	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.04349	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.11	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.41	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	48.12	79	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	109.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	102.1	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-114.2	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	115	105	68	Yes	18	0	n/a	n/a	0.01	NP

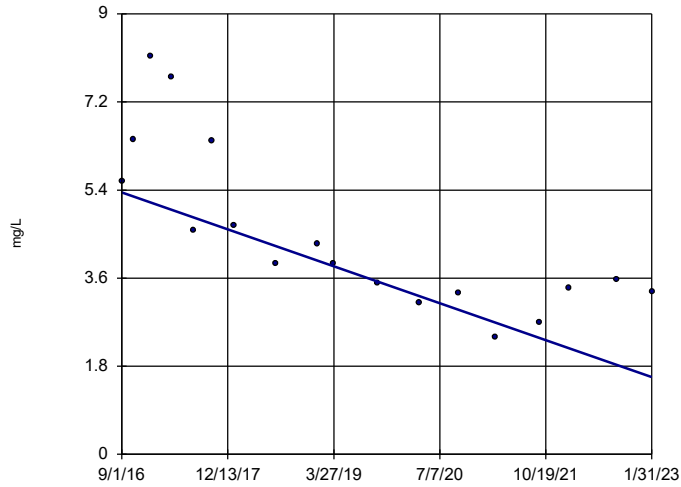
Trend Tests - Appendix III Exceedances - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 3/23/2023, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.5878	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-0.9647	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	13.76	99	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	9.584	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	7.457	94	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	18.29	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-8.464	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.578	13	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.447	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.72	107	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-2.95	-19	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	28.25	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	17.02	70	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-21.96	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.3413	-32	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-59.36	-42	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.008919	-36	-81	No	20	30	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.009757	-88	-81	Yes	20	15	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1267	-71	-81	No	20	5	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.04349	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.02934	53	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	-0.009155	-27	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04584	49	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.11	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-10.41	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	6.293	31	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	48.12	79	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	109.3	107	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	102.1	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-114.2	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-34.54	-45	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	115	105	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	5.415	2	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	98.16	49	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	45.44	64	68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

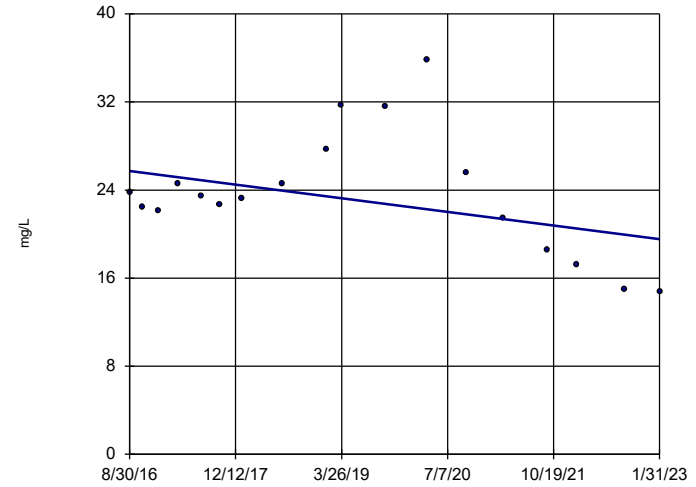


n = 18
 Slope = -0.5878
 units per year.
 Mann-Kendall
 statistic = -102
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

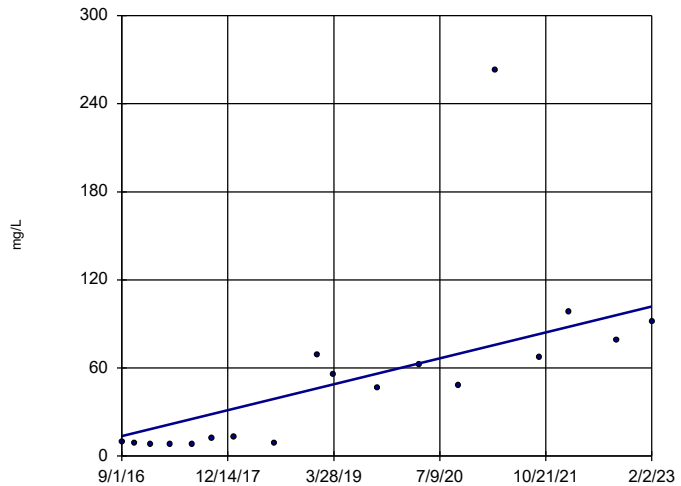


n = 18
 Slope = -0.9647
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-4R

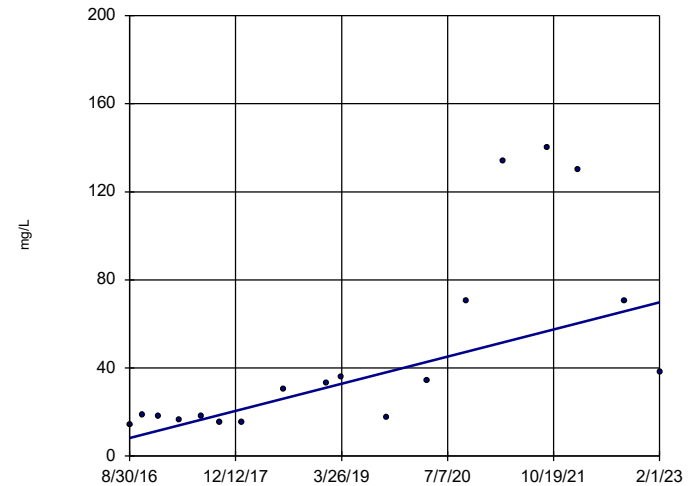


n = 18
 Slope = 13.76
 units per year.
 Mann-Kendall
 statistic = 99
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-5R

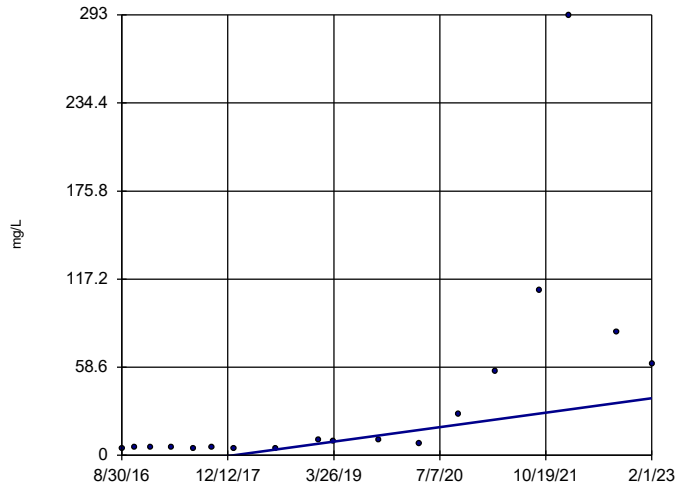


n = 18
 Slope = 9.584
 units per year.
 Mann-Kendall
 statistic = 92
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-6R

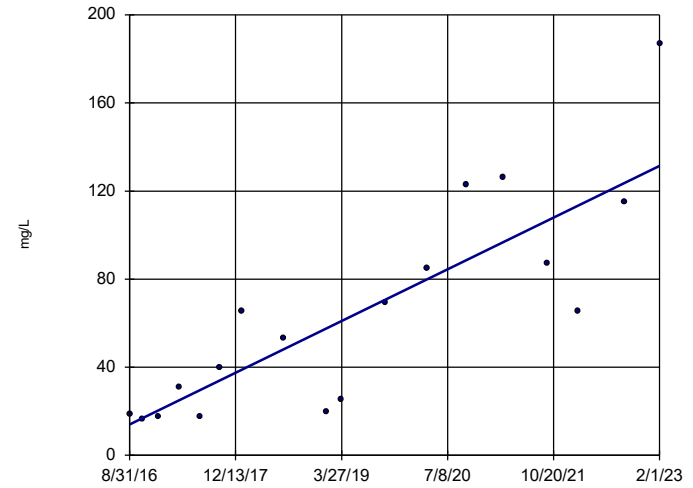


n = 18
 Slope = 7.457
 units per year.
 Mann-Kendall
 statistic = 94
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-11

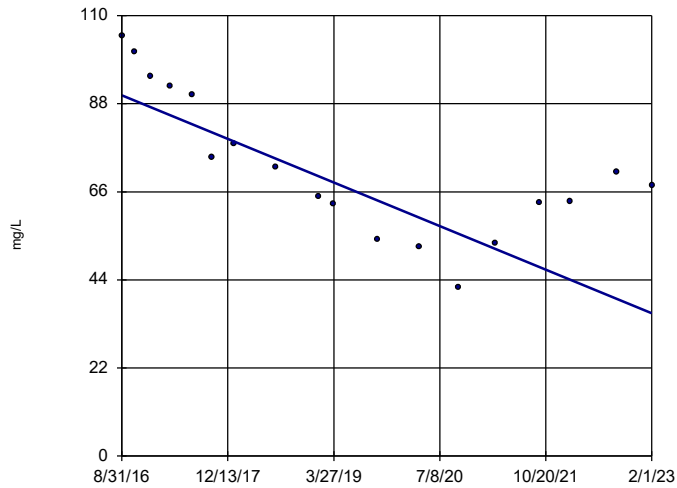


n = 18
 Slope = 18.29
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-12

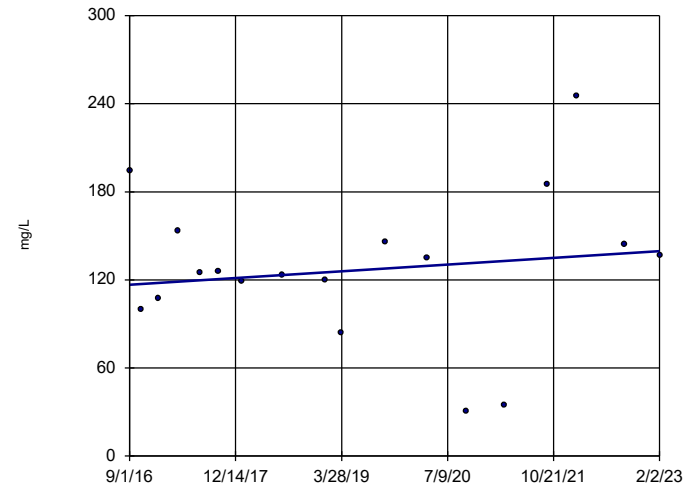


n = 18
 Slope = -8.464
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-14

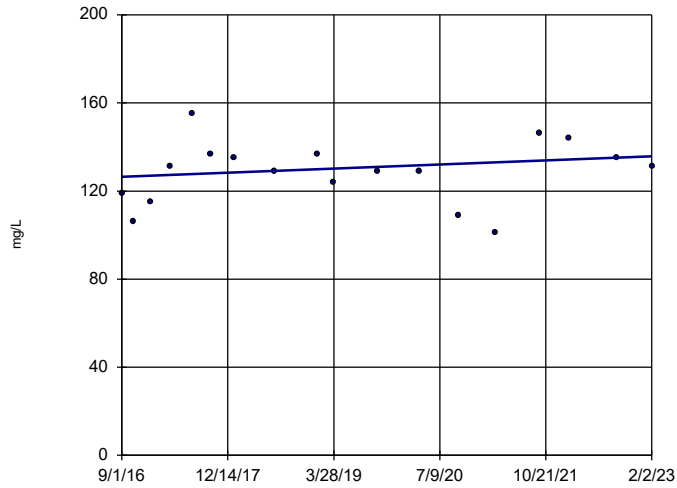


n = 18
 Slope = 3.578
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

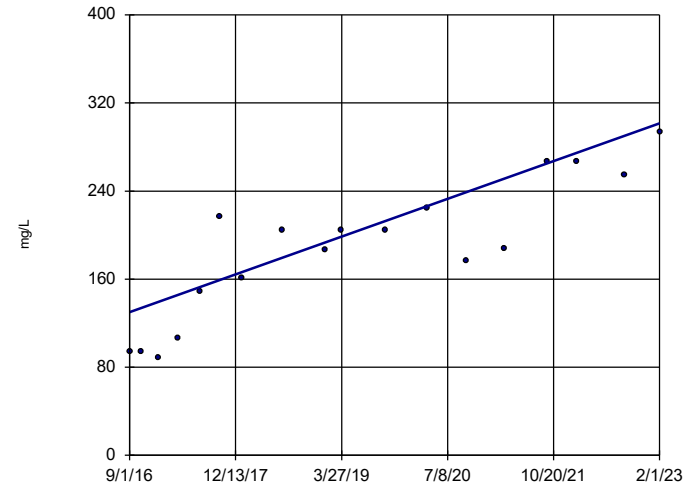


n = 18
 Slope = 1.447
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

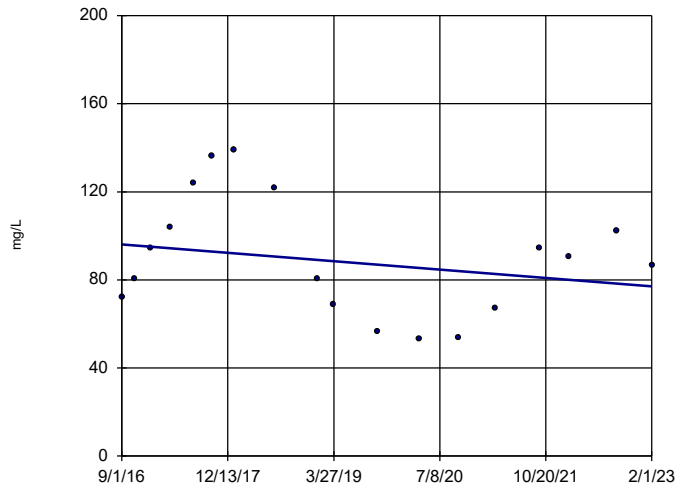


n = 18
 Slope = 26.72
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

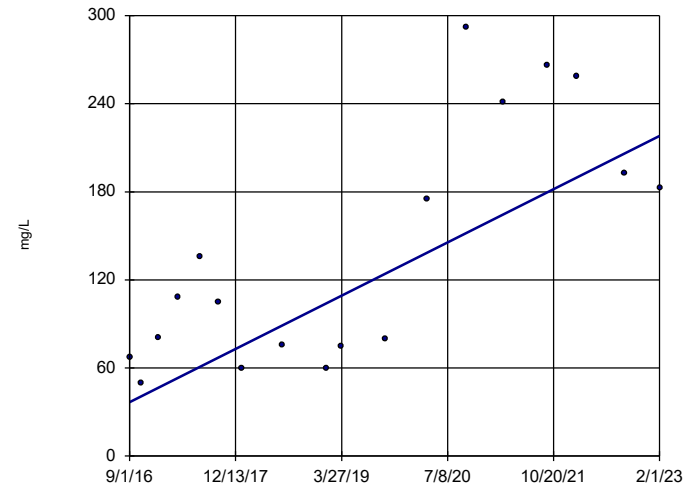


n = 18
 Slope = -2.95
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

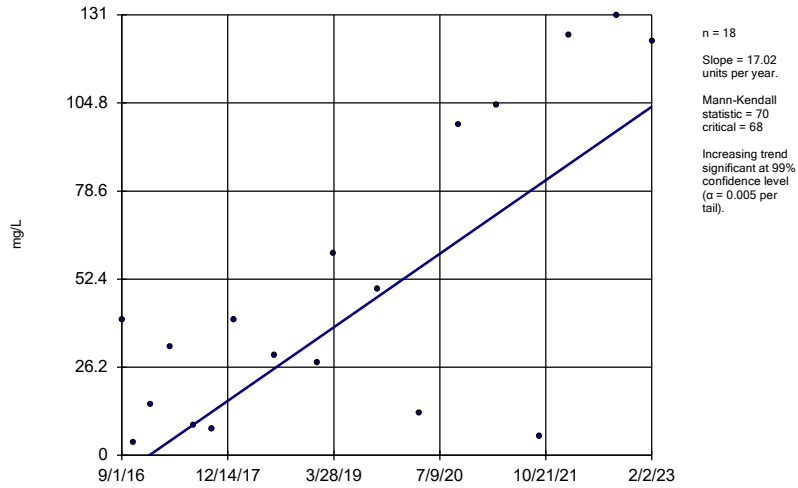


n = 18
 Slope = 28.25
 units per year.
 Mann-Kendall
 statistic = 71
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

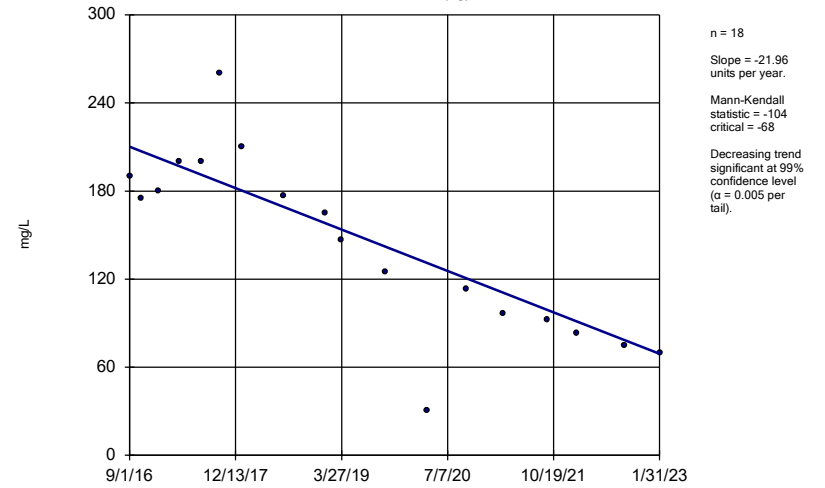
GWC-21



Constituent: Calcium Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

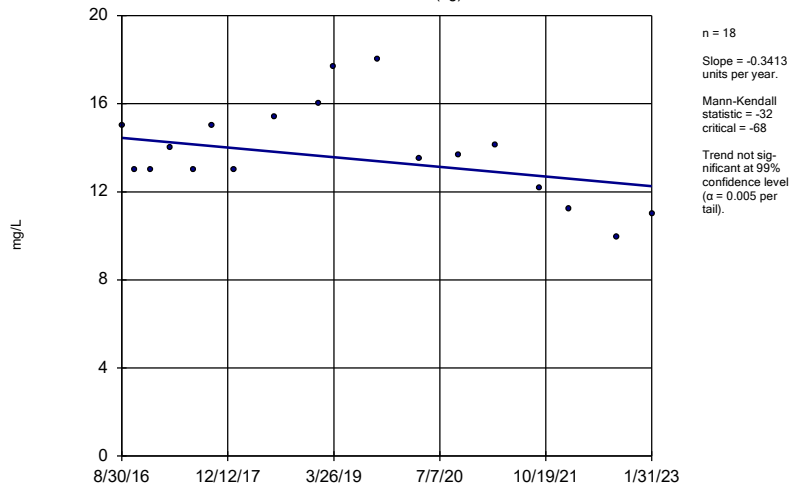
GWA-7 (bg)



Constituent: Chloride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

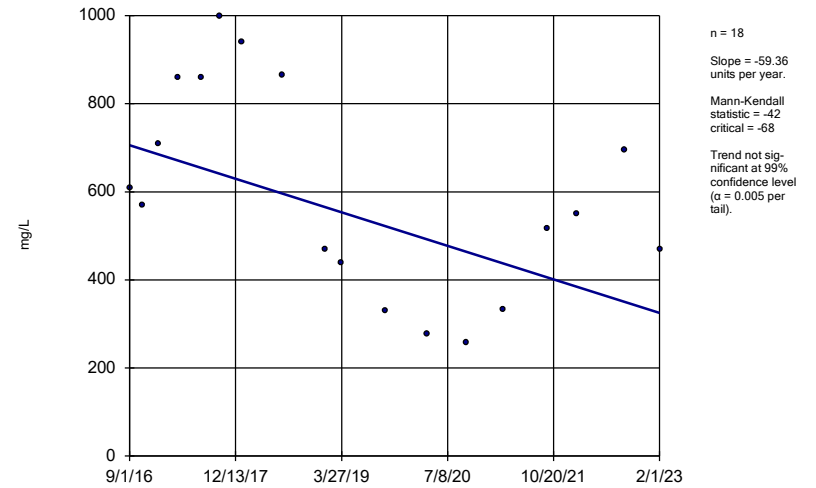
GWA-8 (bg)



Constituent: Chloride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

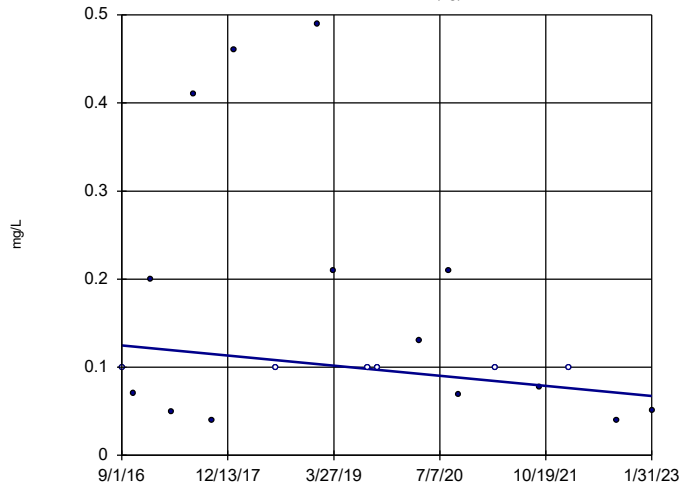
GWC-17



Constituent: Chloride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

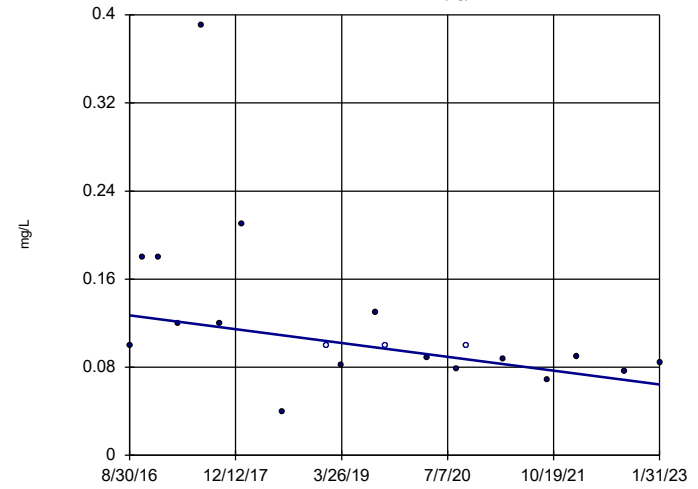


n = 20
Slope = -0.008919
units per year.
Mann-Kendall
statistic = -36
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

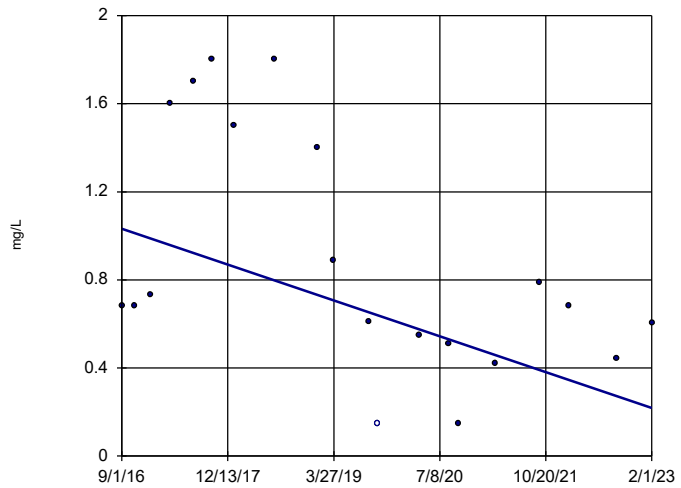


n = 20
Slope = -0.009757
units per year.
Mann-Kendall
statistic = -88
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

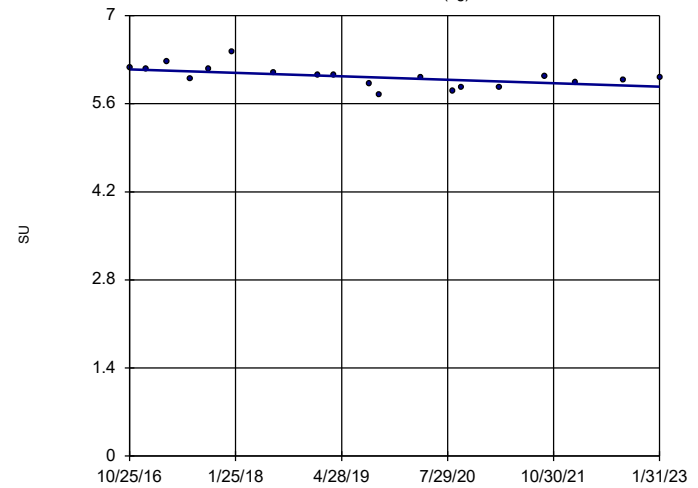


n = 20
Slope = -0.1267
units per year.
Mann-Kendall
statistic = -71
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

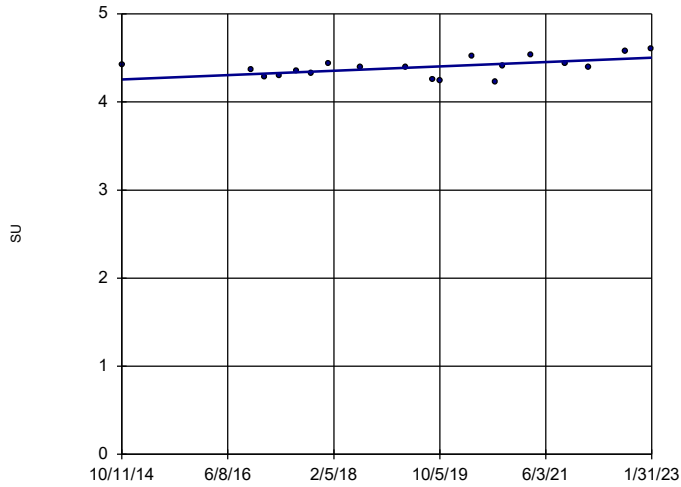


n = 19
Slope = -0.04349
units per year.
Mann-Kendall
statistic = -77
critical = -74
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 3/23/2023 1:31 PM View: A III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

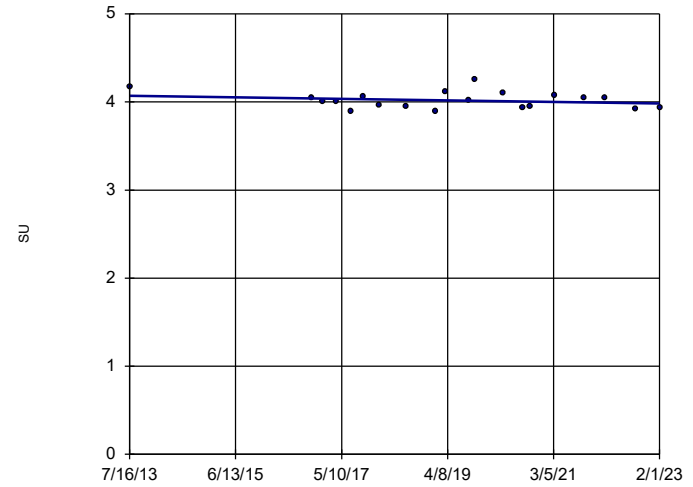


n = 19
 Slope = 0.02934 units per year.
 Mann-Kendall statistic = 53
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-12

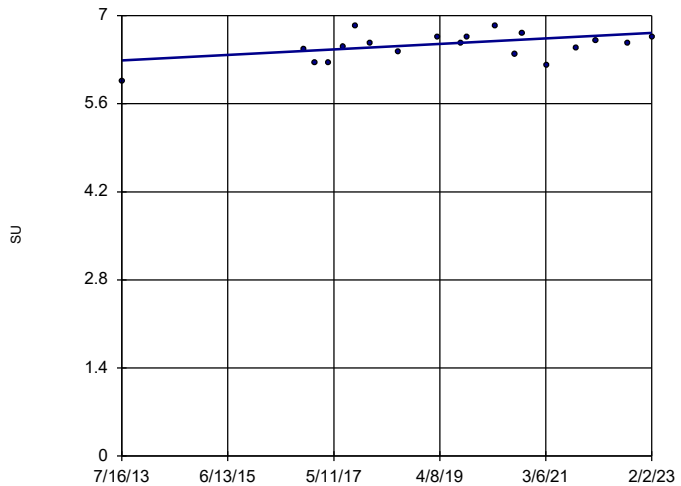


n = 20
 Slope = -0.009155 units per year.
 Mann-Kendall statistic = -27
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

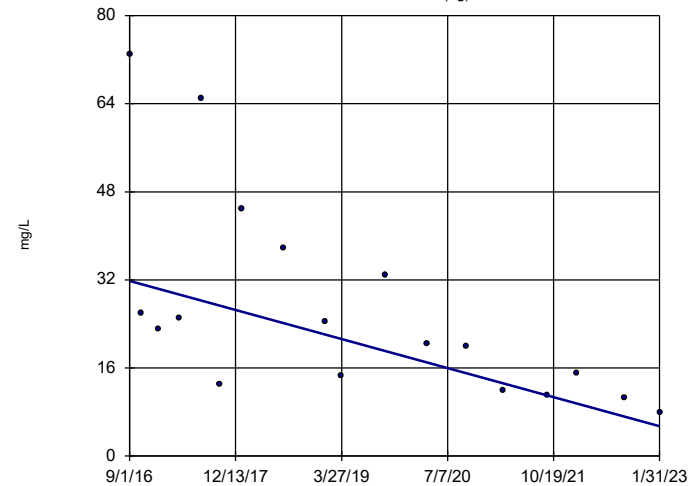


n = 19
 Slope = 0.04584 units per year.
 Mann-Kendall statistic = 49
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

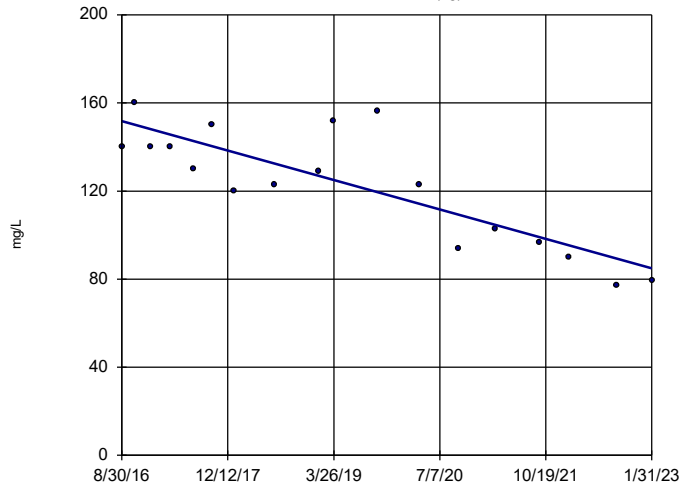


n = 18
 Slope = -4.11 units per year.
 Mann-Kendall statistic = -95
 critical = -68
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

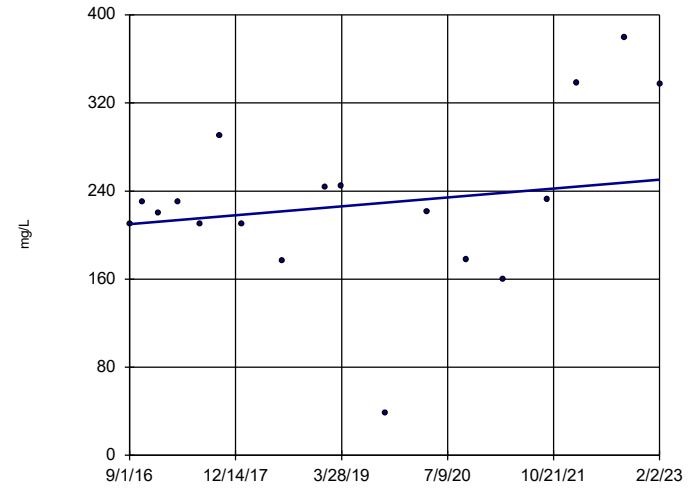


n = 18
 Slope = -10.41
 units per year.
 Mann-Kendall
 statistic = -91
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-4R

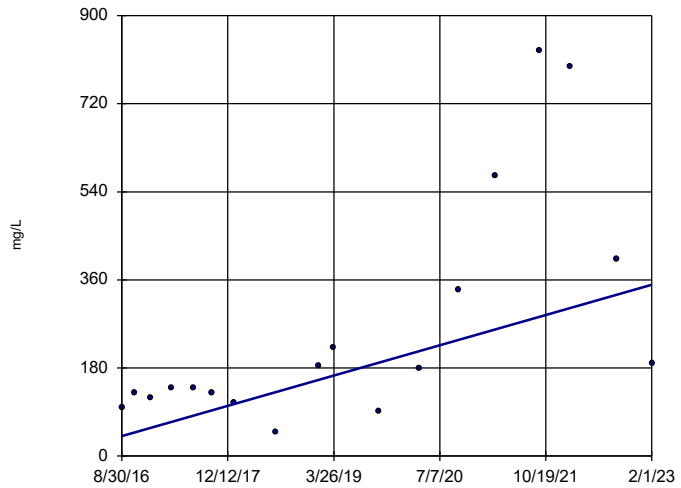


n = 18
 Slope = 6.293
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-5R

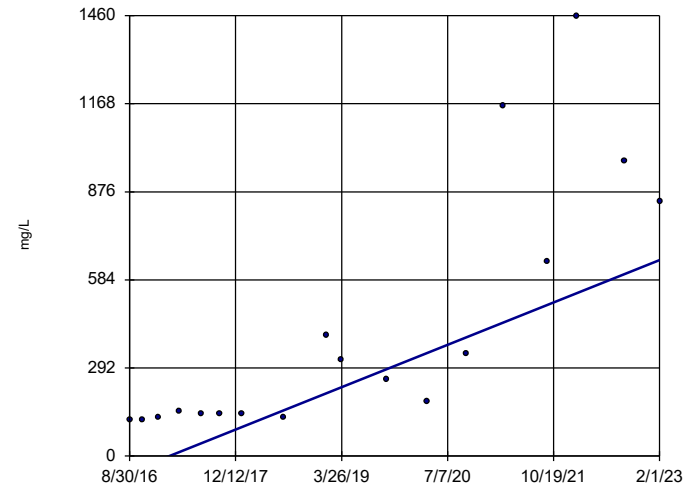


n = 18
 Slope = 48.12
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-6R

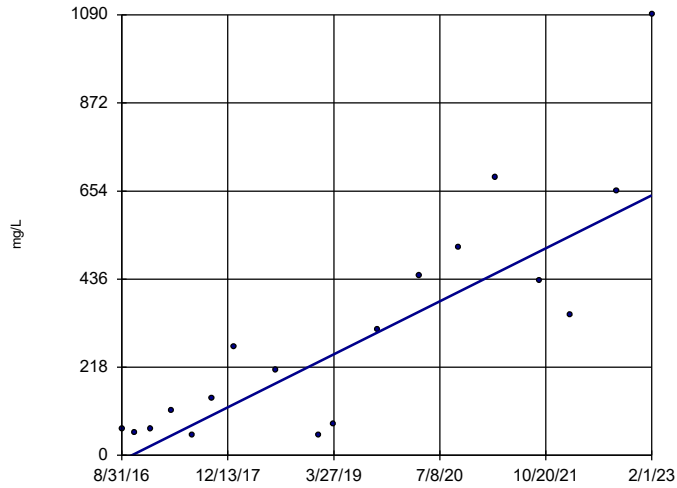


n = 18
 Slope = 109.3
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

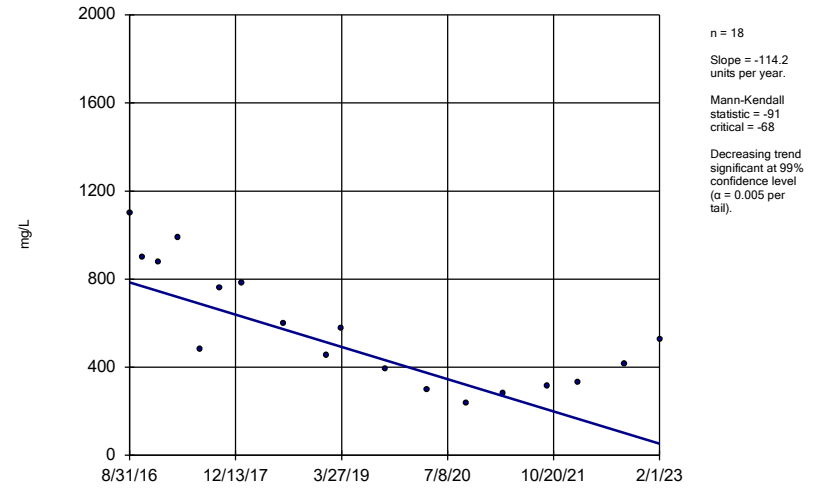
GWC-11



Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

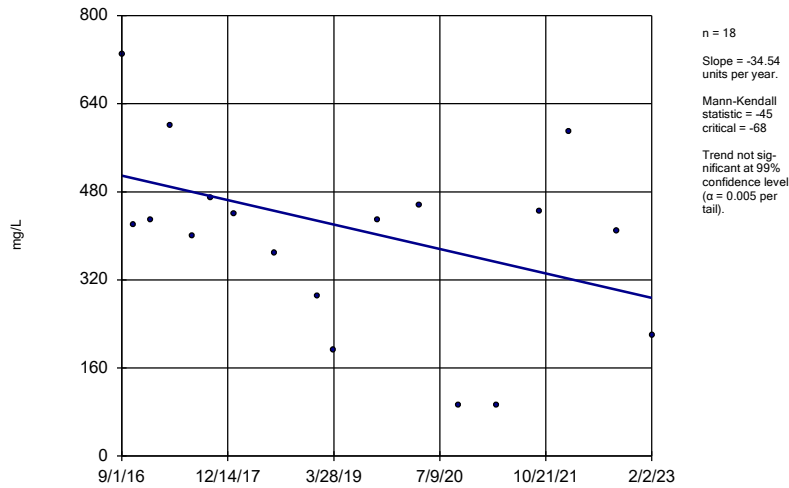
GWC-12



Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

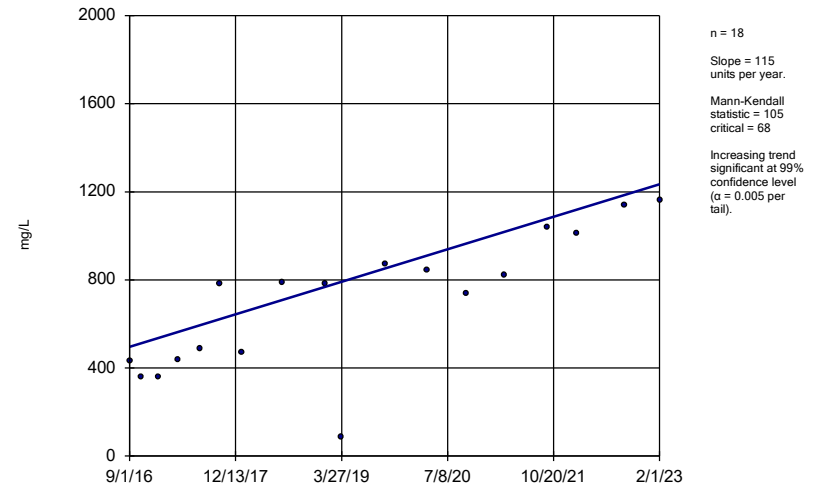
GWC-14



Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

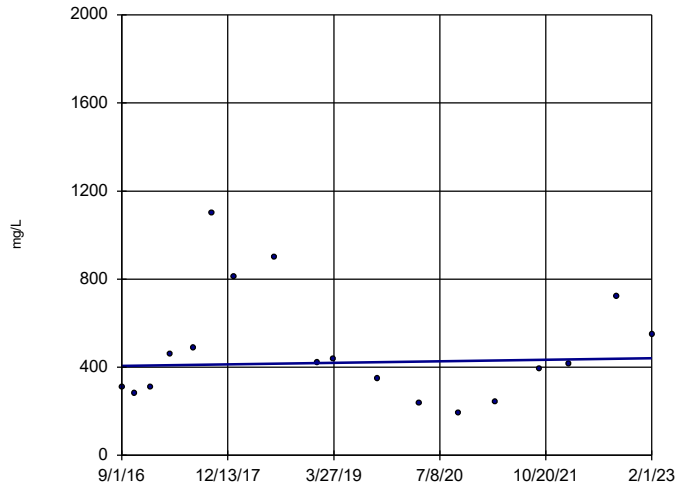
GWC-16



Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

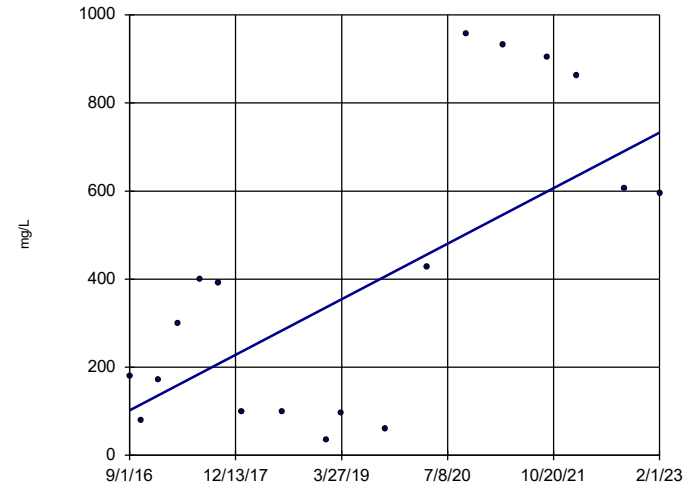


n = 18
 Slope = 5.415
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:31 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

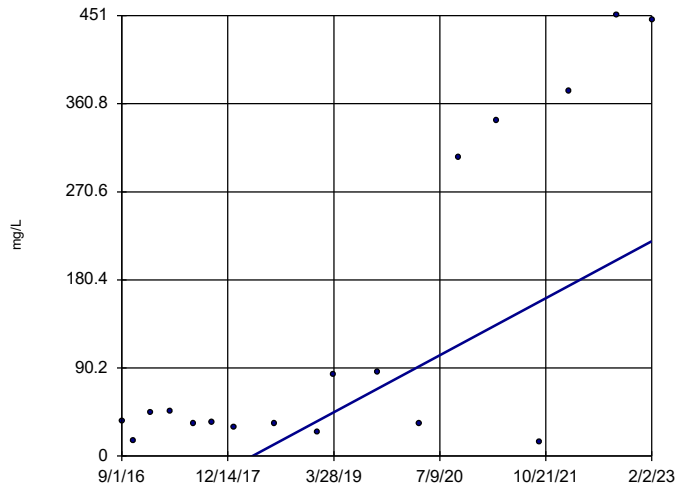


n = 18
 Slope = 98.16
 units per year.
 Mann-Kendall
 statistic = 49
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:32 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21



n = 18
 Slope = 45.44
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/23/2023 1:32 PM View: A III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

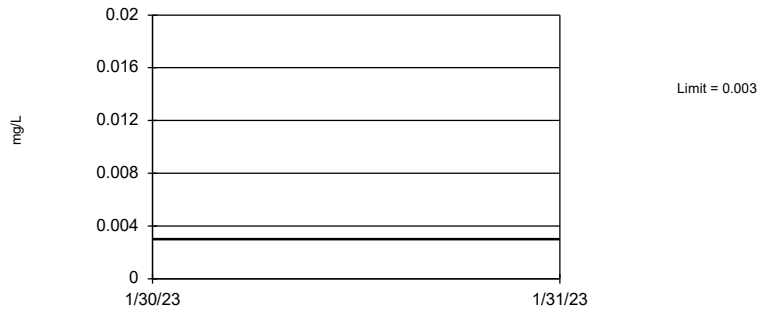
FIGURE H.

Upper Tolerance Limits

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:26 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	129	95.35	n/a	0.001338	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0287	n/a	n/a	n/a	129	76.74	n/a	0.001338	NP Inter(NDs)
Barium (mg/L)	n/a	0.1659	n/a	n/a	n/a	127	0	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.0017	n/a	n/a	n/a	49	51.02	n/a	0.08099	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	47	95.74	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	n/a	n/a	128	61.72	n/a	0.001408	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0102	n/a	n/a	n/a	47	46.81	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	11.77	n/a	n/a	n/a	33	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.49	n/a	n/a	n/a	40	22.5	n/a	0.1285	NP Inter(normality)
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	125	74.4	n/a	0.001642	NP Inter(NDs)
Lithium (mg/L)	n/a	0.01	n/a	n/a	n/a	36	75	n/a	0.1578	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	30	83.33	n/a	0.2146	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0098	n/a	n/a	n/a	36	86.11	n/a	0.1578	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	n/a	n/a	129	82.95	n/a	0.001338	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	68	94.12	n/a	0.03056	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.425	n/a	n/a	n/a	123	61.79	n/a	0.00182	NP Inter(NDs)
Zinc (mg/L)	n/a	0.16	n/a	n/a	n/a	121	28.93	n/a	0.002016	NP Inter(normality)

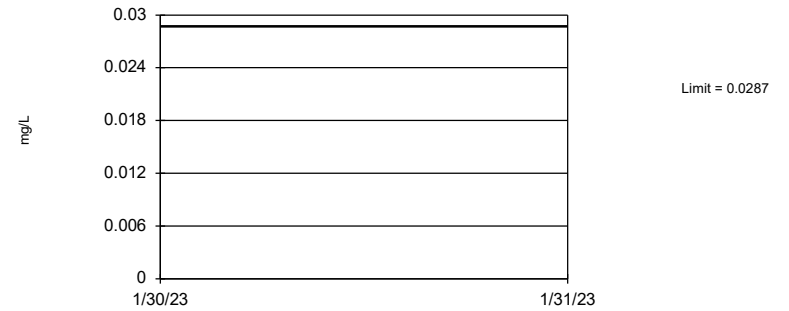
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 129 background values. 95.35% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001338.

Constituent: Antimony Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

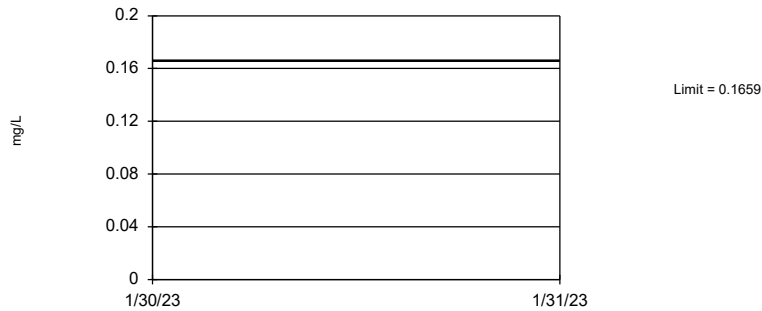
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 129 background values. 76.74% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001338.

Constituent: Arsenic Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

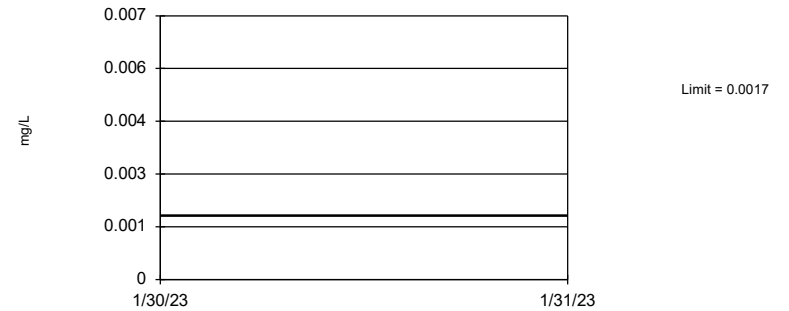
Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation): Mean=-2.485, Std. Dev.=0.3647, n=127. Normality test: Chi Squared @alpha = 0.01, calculated = 12.92, critical = 14.07. Report alpha = 0.05.

Constituent: Barium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

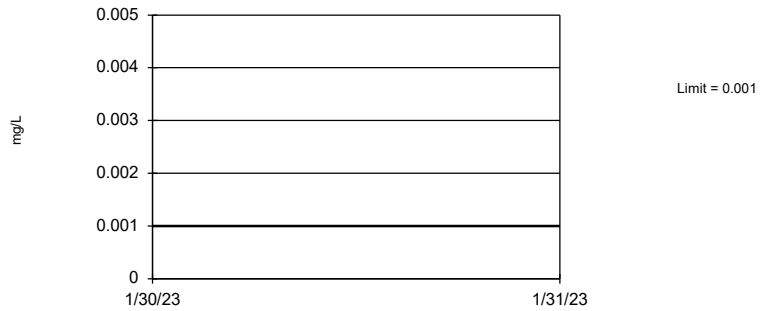
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 49 background values. 51.02% NDs. 91.21% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08099.

Constituent: Beryllium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

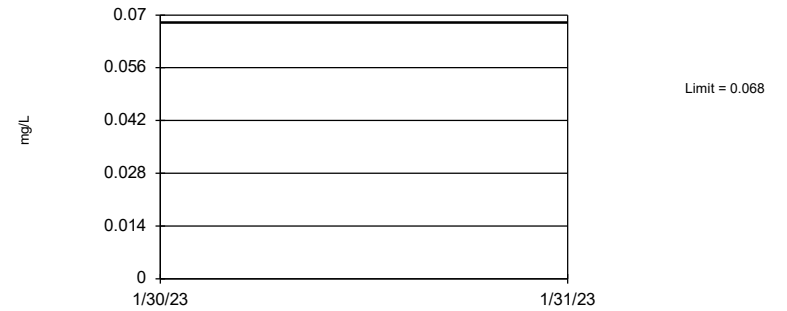
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 47 background values. 95.74% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08974.

Constituent: Cadmium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

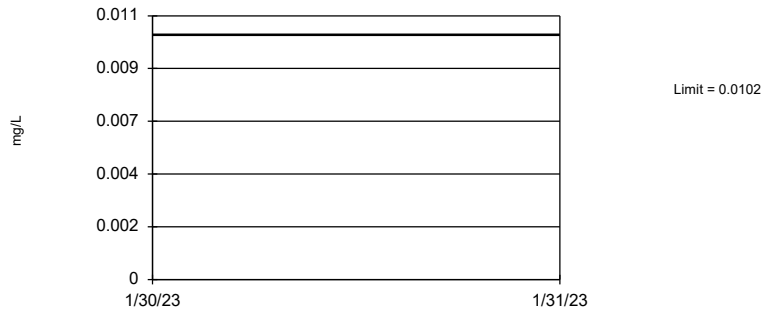
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 128 background values. 61.72% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001408.

Constituent: Chromium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 46.81% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08974.

Constituent: Cobalt Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

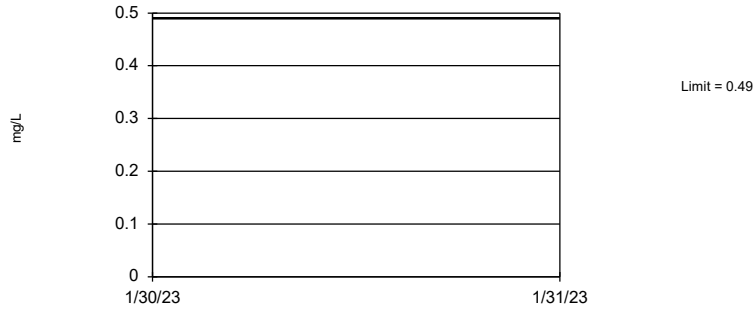
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary (based on square root transformation): Mean=1.936, Std. Dev.=0.6833, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9106, critical = 0.906. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

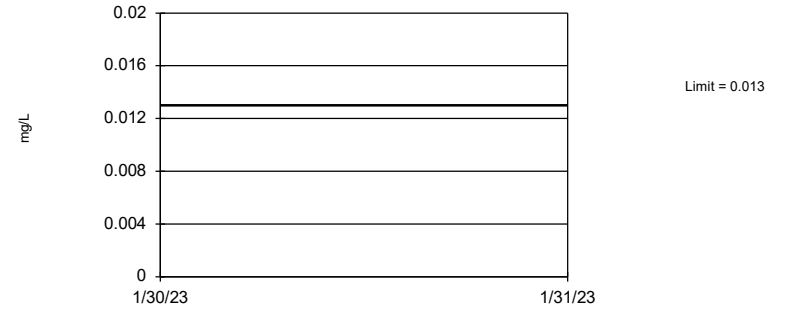
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 22.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Fluoride Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 125 background values. 74.4% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001642.

Constituent: Lead Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 36 background values. 75% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Lithium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

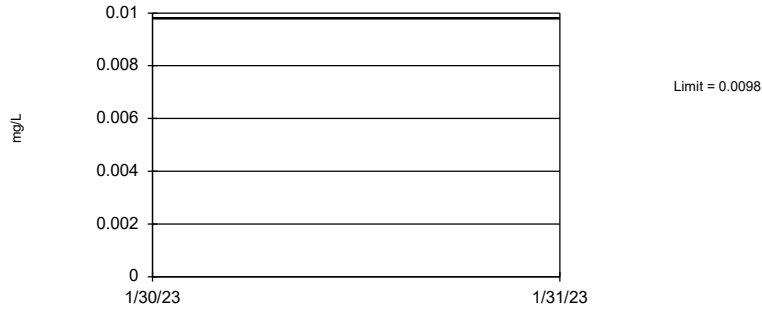
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 30 background values. 83.33% NDs. 85.74% coverage at alpha=0.01; 90.43% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.2146.

Constituent: Mercury Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

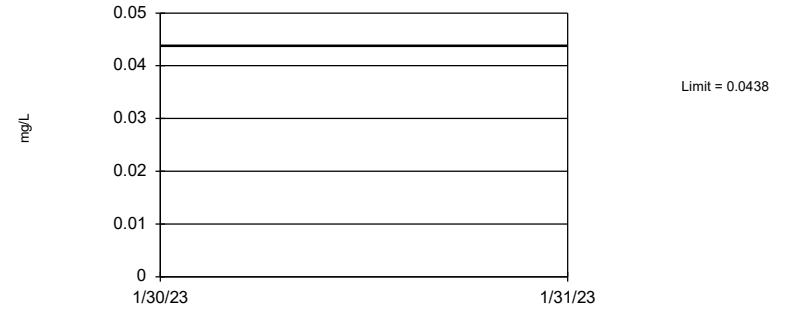
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 36 background values. 86.11% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Molybdenum Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

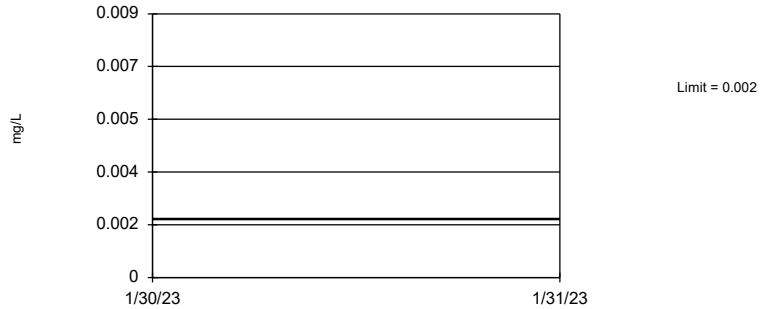
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 129 background values. 82.95% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001338.

Constituent: Selenium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

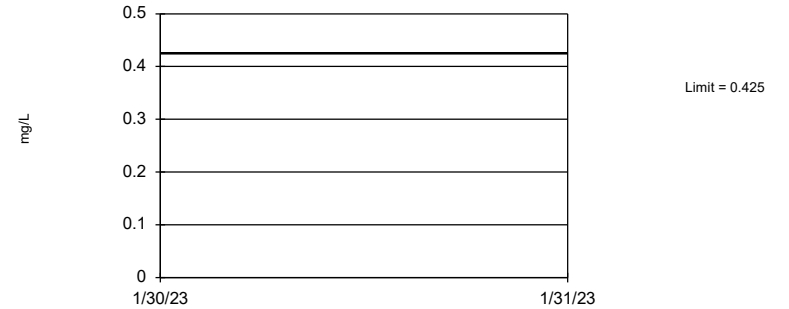
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 68 background values. 94.12% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Thallium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 123 background values. 61.79% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00182.

Constituent: Vanadium Analysis Run 4/20/2023 11:24 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 121 background values, 28.93% NDs, 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002016.

Constituent: Zinc Analysis Run 4/20/2023 11:25 AM View: AIV UTL
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE I.

GRUMMAN ROAD LANDFILL GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.029	0.029
Barium, Total (mg/L)	2		0.17	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.01	0.01
Combined Radium, Total (pCi/L)	5		11.77	11.77
Fluoride, Total (mg/L)	4		0.49	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.01	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.0098	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.43	0.43
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1781	0.08861	0.029	Yes	22	0.1333	0.08334	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08509	0.06462	0.029	Yes	23	0.07485	0.01957	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3623	0.2809	0.029	Yes	22	0.3216	0.07588	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2038	0.1297	0.1	Yes	18	0.1668	0.06128	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3563	0.1467	0.1	Yes	18	0.2696	0.1909	0	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	22	0.002688	0.0008192	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	22	0.002767	0.0007547	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	22	0.002602	0.0008878	81.82	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00064	0.006	No	22	0.001912	0.001225	54.55	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	22	0.002891	0.0005117	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	22	0.002945	0.0002558	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	22	0.002802	0.0006374	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	22	0.002859	0.0004584	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	22	0.002843	0.000543	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	22	0.002879	0.0005692	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	22	0.002552	0.0009192	77.27	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	22	0.002815	0.00063	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003179	0.002012	0.029	No	22	0.002596	0.001087	9.091	None	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.002121	0.001131	0.029	No	22	0.002554	0.001687	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003572	0.001552	0.029	No	22	0.008281	0.009537	22.73	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.005204	0.002437	0.029	No	21	0.004743	0.005371	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	22	0.004268	0.001597	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	22	0.004485	0.001368	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002249	0.001669	0.029	No	23	0.002615	0.001233	17.39	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.1781	0.08861	0.029	Yes	22	0.1333	0.08334	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08509	0.06462	0.029	Yes	23	0.07485	0.01957	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	22	0.002951	0.001929	45.45	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	22	0.004406	0.001533	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3623	0.2809	0.029	Yes	22	0.3216	0.07588	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0059	0.0031	0.029	No	22	0.007455	0.00814	31.82	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0012	0.029	No	22	0.003435	0.00198	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	22	0.004811	0.0008869	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	6	0.00432	0.001666	83.33	None	No	0.0155	NP (NDs)
Barium (mg/L)	GWB-4R	0.098	0.076	2	No	22	0.09272	0.02344	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1404	0.08761	2	No	22	0.1176	0.05498	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.0233	2	No	22	0.0654	0.04176	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05668	0.05085	2	No	22	0.05376	0.005427	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1232	0.07658	2	No	22	0.0999	0.04345	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.023	0.017	2	No	22	0.0201	0.00464	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02962	0.02218	2	No	22	0.0259	0.006931	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.026	2	No	23	0.04505	0.02694	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05055	0.04079	2	No	22	0.04567	0.00909	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1648	0.08061	2	No	21	0.1227	0.07628	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.09677	0.04565	2	No	22	0.0767	0.05472	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.049	2	No	21	0.05261	0.007226	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.202	0.1036	2	No	22	0.1755	0.1167	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1194	0.05978	2	No	22	0.0979	0.06422	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.08895	0.05783	2	No	22	0.07339	0.02899	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.242	0.1755	2	No	22	0.2088	0.06196	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.079	0.06	2	No	5	0.0735	0.007649	0	None	No	0.031	NP (normality)
Barium (mg/L)	MW-24D	0.04917	0.02063	2	No	5	0.0349	0.008516	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03019	0.01977	2	No	5	0.02498	0.003108	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	18	0.0003833	0.0001823	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.000099	0.004	No	18	0.0002579	0.0001711	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	18	0.0004498	0.0001462	88.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	18	0.0004748	0.0001068	94.44	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007441	0.0005215	0.004	No	18	0.0006504	0.0002093	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	18	0.0004754	0.0001042	94.44	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	18	0.0004307	0.0001597	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	18	0.0002686	0.0002133	44.44	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.002582	0.001653	0.004	No	18	0.002174	0.0008353	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.000088	0.004	No	19	0.0003777	0.0001913	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	18	0.000352	0.0001938	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	18	0.0002369	0.00004932	5.556	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	5	0.0004168	0.000186	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.0002	0.005	No	18	0.00081	0.0003667	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	18	0.0008983	0.0002959	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005911	0.0002908	0.005	No	18	0.0004409	0.0002482	5.556	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.00017	0.005	No	18	0.0006772	0.0004171	61.11	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.0002	0.005	No	18	0.0008617	0.0003185	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	18	0.0005583	0.0004179	44.44	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	5	0.000854	0.0003265	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	GWB-4R	0.00789	0.003572	0.1	No	22	0.006219	0.004278	4.545	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.003984	0.001154	0.1	No	22	0.00807	0.01486	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006246	0.002384	0.1	No	22	0.005105	0.004895	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0024	0.0017	0.1	No	22	0.002568	0.001376	13.64	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00092	0.1	No	22	0.005049	0.004613	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.0028	0.00091	0.1	No	22	0.00362	0.004021	27.27	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	22	0.006285	0.004577	59.09	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0008	0.1	No	23	0.005246	0.004658	47.83	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	22	0.0046	0.004199	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	23	0.005333	0.004573	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	22	0.004523	0.004342	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	22	0.006642	0.004548	63.64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	22	0.004596	0.004293	36.36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0007	0.1	No	22	0.005784	0.004729	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	22	0.006154	0.004732	59.09	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	22	0.00485	0.004398	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	5	0.008138	0.004164	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	5	0.00832	0.003757	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	18	0.001809	0.00202	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.0057	0.002	0.01	No	18	0.005289	0.005284	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0228	0.0049	0.01	No	18	0.0117	0.0181	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.000646	0.01	No	18	0.00355	0.002117	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001214	0.0007818	0.01	No	18	0.0009977	0.0003568	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.005269	0.002871	0.01	No	18	0.004213	0.002052	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.01	No	19	0.0008621	0.0002887	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.01	No	18	0.0009133	0.0001723	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00096	0.01	No	18	0.001293	0.0004063	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.44	11.77	No	18	3.597	1.328	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.797	2.368	11.77	No	18	3.149	1.321	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.802	2.94	11.77	No	18	3.871	1.538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.305	1.482	11.77	No	18	1.893	0.6801	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.401	3.541	11.77	No	18	4.971	2.363	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.802	1.753	11.77	No	18	2.277	0.867	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.632	0.8994	11.77	No	18	1.266	0.6052	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.457	0.7427	11.77	No	18	1.1	0.5905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.014	1.116	11.77	No	18	1.565	0.7426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.768	1.81	11.77	No	18	2.329	0.8481	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.795	2.708	11.77	No	18	3.252	0.8987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.09	0.725	11.77	No	18	0.9065	0.3777	0	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.849	2.479	11.77	No	18	3.664	1.959	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.573	1.394	11.77	No	18	1.983	0.9744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.026	3.195	11.77	No	18	4.786	2.269	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.671	2.12	11.77	No	18	3.015	1.535	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.475	0.8806	11.77	No	5	1.678	0.4759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.54	0.36	11.77	No	5	1.738	1.278	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	MW-25D	3.093	0.01701	11.77	No	5	1.081	1.115	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.5	0.17	4	No	20	0.4238	0.2602	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	20	0.08557	0.03939	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	20	0.1165	0.05759	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.051	4	No	20	0.1046	0.03727	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.6991	0.2729	4	No	20	0.486	0.3753	5	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	20	0.1143	0.1043	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.21	0.1	4	No	20	0.164	0.1216	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	20	0.128	0.09283	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.11	0.1	4	No	20	0.1714	0.2006	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.191	0.5773	4	No	20	0.8843	0.5406	5	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.083	4	No	20	0.1222	0.1193	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	20	0.09215	0.02677	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	20	0.09855	0.006485	95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	20	0.0935	0.023	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2151	0.08774	4	No	20	0.1955	0.218	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.1	0.0586	4	No	6	0.08962	0.01734	66.67	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1785	0.06886	4	No	6	0.1237	0.03989	0	None	No	0.01	Param.
Lead (mg/L)	GWB-4R	0.003335	0.0007709	0.015	No	21	0.00319	0.002703	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	22	0.001256	0.0008858	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	22	0.001158	0.0008869	50	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	22	0.001653	0.0007538	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.00042	0.00021	0.015	No	22	0.0007368	0.0007953	27.27	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	22	0.001041	0.001069	40.91	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00017	0.015	No	22	0.001072	0.0008528	40.91	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	23	0.001687	0.0007028	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	22	0.00116	0.0009438	54.55	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	23	0.001029	0.0009515	47.83	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00015	0.015	No	22	0.001351	0.0008933	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	22	0.001495	0.0008459	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	22	0.001573	0.0008056	77.27	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00016	0.015	No	22	0.001319	0.0009233	63.64	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007822	0.000301	0.015	No	22	0.0009668	0.0008239	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.00012	0.015	No	22	0.001255	0.0009247	59.09	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	5	0.001611	0.0008689	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	5	0.001619	0.0008524	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	5	0.001619	0.0008519	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	GWB-4R	0.015	0.0042	0.04	No	18	0.01034	0.005251	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	18	0.01981	0.01316	61.11	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	18	0.01388	0.01484	44.44	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	18	0.02676	0.009436	88.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006677	0.005134	0.04	No	18	0.005906	0.001275	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0022	0.0017	0.04	No	17	0.003447	0.004353	11.76	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	15	0.0001833	0.0000452	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	16	0.0001867	0.00003645	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	15	0.0001829	0.00004648	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	15	0.0001827	0.00004713	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

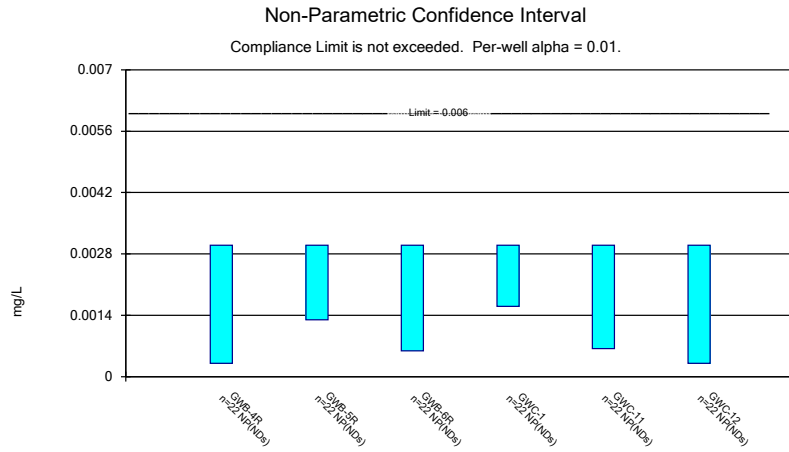
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	15	0.0001887	0.00003044	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	15	0.000194	0.00002324	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	15	0.0001933	0.00002582	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	15	0.000184	0.00004372	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.15	0.024	0.1	No	18	0.08587	0.06029	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	18	0.0009939	0.00008925	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.00097	0.1	No	18	0.006551	0.004468	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1327	0.05591	0.1	No	18	0.1008	0.06643	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.0018	0.1	No	18	0.007983	0.003891	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	18	0.0009558	0.0001874	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	18	0.001256	0.001084	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01504	0.004822	0.1	No	18	0.01105	0.009367	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1078	0.08837	0.1	No	18	0.09809	0.01607	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2038	0.1297	0.1	Yes	18	0.1668	0.06128	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.003	0.1	No	18	0.00636	0.003478	44.44	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3563	0.1467	0.1	Yes	18	0.2696	0.1909	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05583	0.02194	0.1	No	18	0.03888	0.02801	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	18	0.000963	0.000157	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.003563	0.0008934	0.1	No	6	0.002228	0.0009718	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.001311	0.0007407	0.1	No	6	0.001077	0.0002205	50	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GWB-4R	0.00398	0.002723	0.05	No	22	0.004155	0.001238	40.91	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	22	0.004785	0.001159	77.27	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.0023	0.05	No	22	0.0087	0.009991	54.55	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	22	0.003433	0.004507	9.091	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.008498	0.003621	0.05	No	22	0.00794	0.005863	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	22	0.004518	0.001064	81.82	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004322	0.003011	0.05	No	23	0.003666	0.001253	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.004789	0.002124	0.05	No	22	0.005096	0.002846	45.45	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.005153	0.003335	0.05	No	23	0.004244	0.001738	8.696	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	22	0.003682	0.001726	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	22	0.004795	0.0007013	90.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	22	0.003919	0.001634	68.18	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01918	0.01015	0.05	No	22	0.01467	0.008413	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	22	0.004405	0.001315	81.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	18	0.001786	0.0006241	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	18	0.001798	0.000589	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	18	0.001675	0.0007468	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	18	0.001173	0.0009521	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.00014	0.002	No	18	0.001193	0.0009288	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	18	0.001785	0.0006257	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	18	0.001784	0.000629	88.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	18	0.001361	0.0009299	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	19	0.001901	0.0004336	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	18	0.001892	0.0004596	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	18	0.001471	0.0008777	72.22	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0371	0.0037	0.43	No	17	0.0184	0.0166	5.882	None	No	0.01	NP (normality)

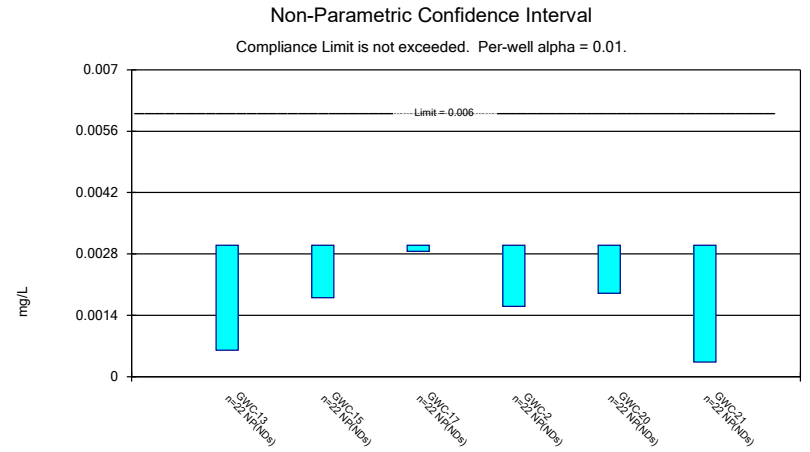
Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 5/8/2023, 10:53 AM

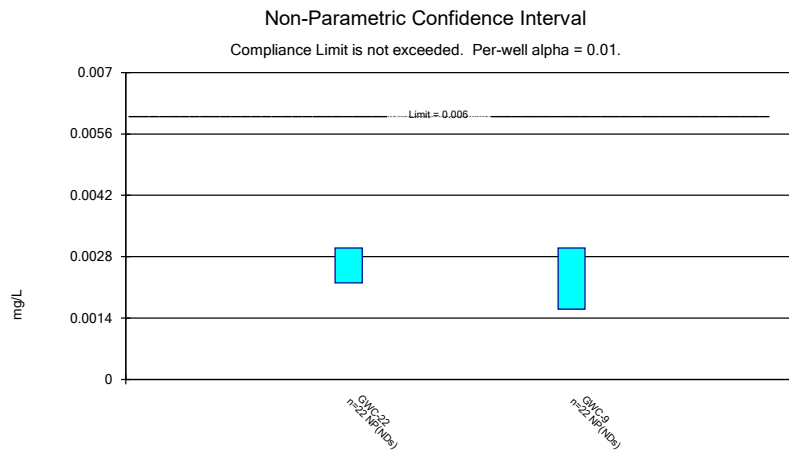
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWB-5R	0.0107	0.004383	0.43	No	17	0.009082	0.008465	5.882	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02616	0.008613	0.43	No	17	0.02248	0.0241	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.005859	0.004088	0.43	No	17	0.004974	0.001413	11.76	None	No	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00481	0.0021	0.43	No	17	0.003944	0.002976	17.65	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.0059	0.0039	0.43	No	17	0.004999	0.001717	11.76	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-13	0.02	0.0029	0.43	No	17	0.01513	0.007979	70.59	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01622	0.008095	0.43	No	20	0.01216	0.007157	15	None	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.01	0.0022	0.43	No	19	0.00501	0.00358	31.58	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	20	0.01256	0.01923	20	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.01	0.0026	0.43	No	17	0.006058	0.003534	41.18	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.0045	0.43	No	17	0.01805	0.005509	88.24	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.01	0.0025	0.43	No	19	0.005096	0.003178	26.32	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.00418	0.002548	0.43	No	17	0.005119	0.003062	23.53	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-22	0.02	0.002	0.43	No	17	0.01282	0.008899	58.82	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.00514	0.43	No	17	0.01694	0.006862	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	5	0.01683	0.007093	80	Kaplan-Meier	No	0.031	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	5	0.01648	0.007871	80	Kaplan-Meier	No	0.031	NP (NDs)
Zinc (mg/L)	GWB-4R	0.02	0.0052	0.16	No	17	0.01168	0.006834	35.29	None	No	0.01	NP (normality)
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	17	0.01612	0.007325	76.47	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.0121	0.0036	0.16	No	17	0.008735	0.003916	52.94	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-1	0.02	0.00578	0.16	No	17	0.01554	0.007295	70.59	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.004	0.16	No	17	0.01517	0.007754	70.59	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.01	0.0025	0.16	No	17	0.006332	0.005993	23.53	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.037	0.0027	0.16	No	17	0.02072	0.01765	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	20	0.01698	0.006369	80	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	19	0.019	0.005796	84.21	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	20	0.01393	0.007989	60	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01187	0.006878	0.16	No	17	0.009372	0.003981	11.76	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.056	0.005	0.16	No	17	0.01676	0.01274	58.82	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	19	0.01876	0.005791	78.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.0071	0.16	No	17	0.0147	0.007677	64.71	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0057	0.16	No	17	0.01362	0.00742	52.94	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	17	0.01046	0.008594	29.41	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01246	0.004661	0.16	No	5	0.00988	0.001974	40	Kaplan-Meier	No	0.01	Param.
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	5	0.01454	0.007957	60	Kaplan-Meier	No	0.031	NP (NDs)
Zinc (mg/L)	MW-25D	0.051	0.0054	0.16	No	5	0.0225	0.01702	40	None	No	0.031	NP (selected)



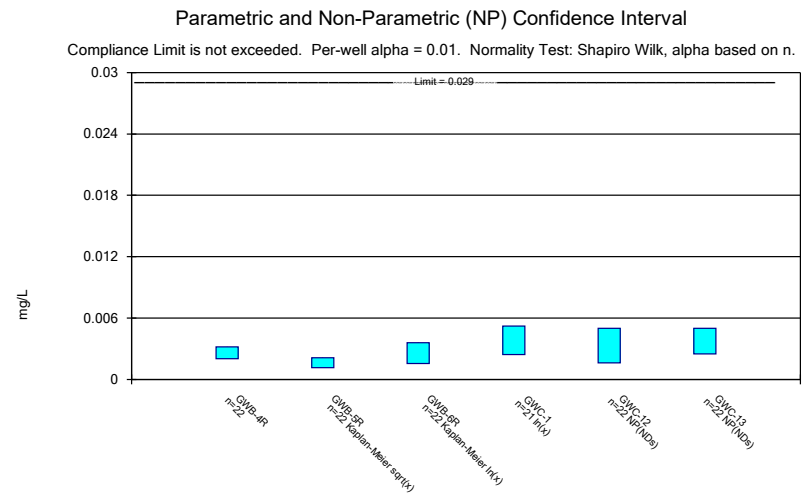
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Antimony Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



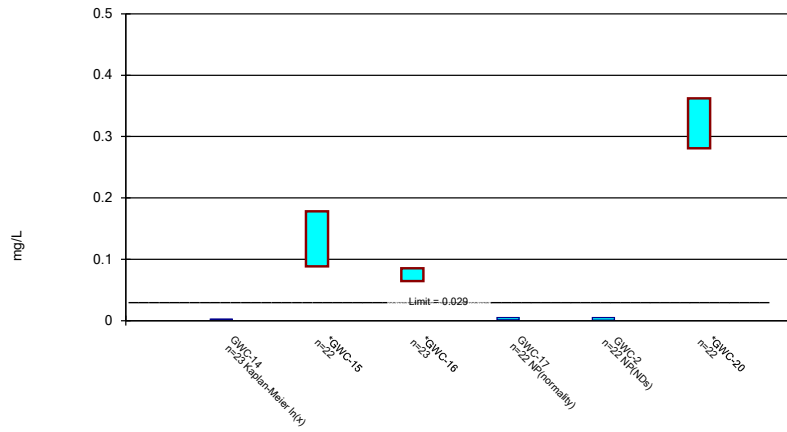
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



Constituent: Arsenic Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

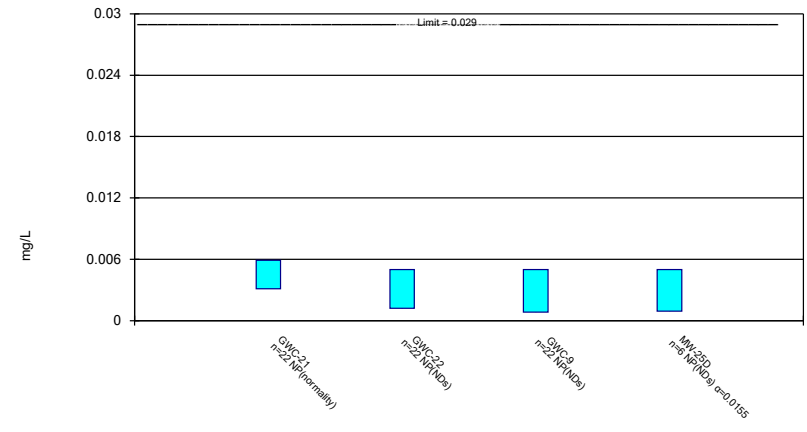
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

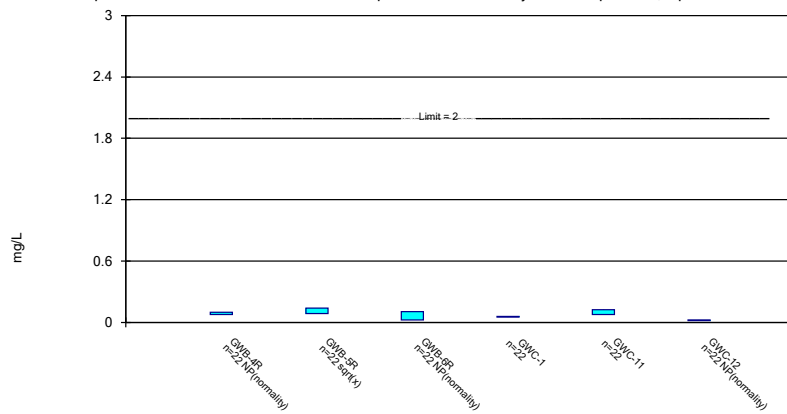
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Constituent: Arsenic Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

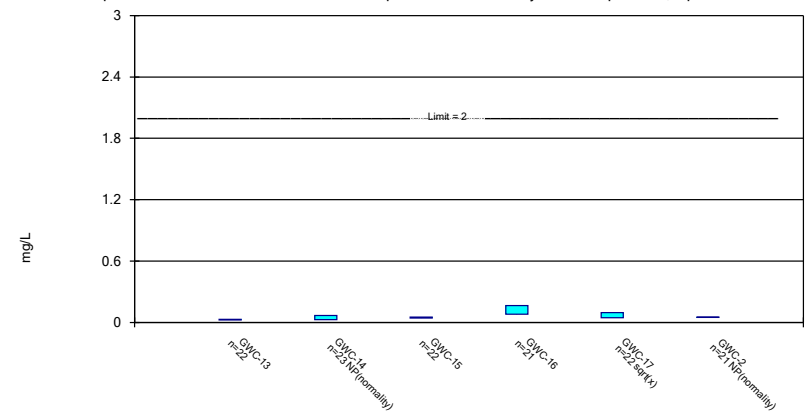
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Constituent: Barium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

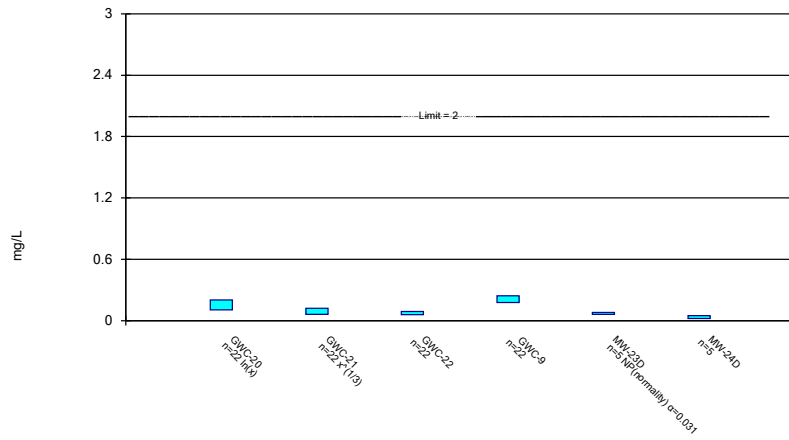
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Constituent: Barium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

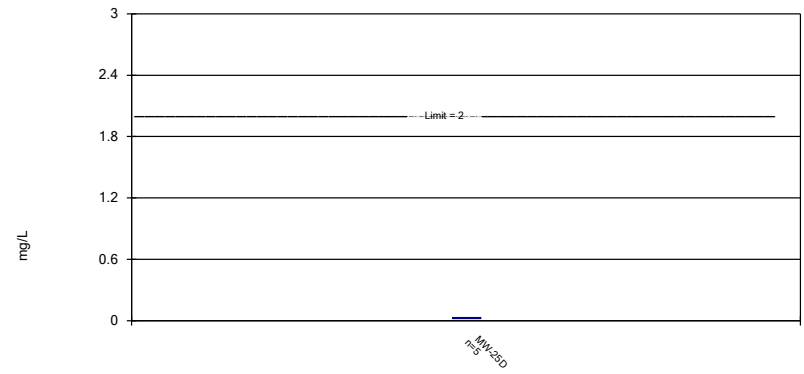
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

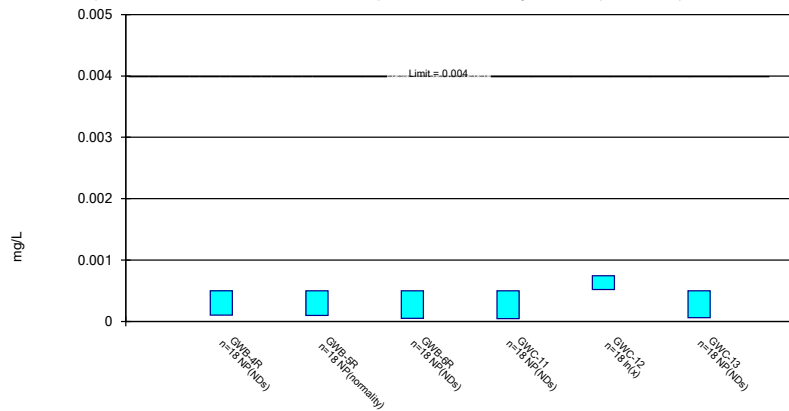
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Constituent: Barium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

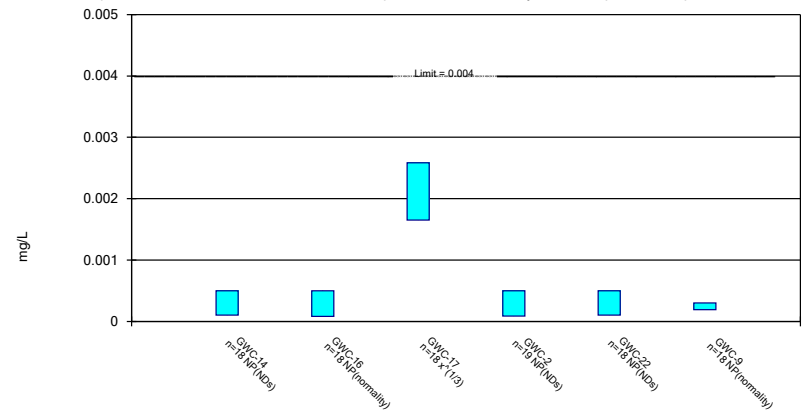
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

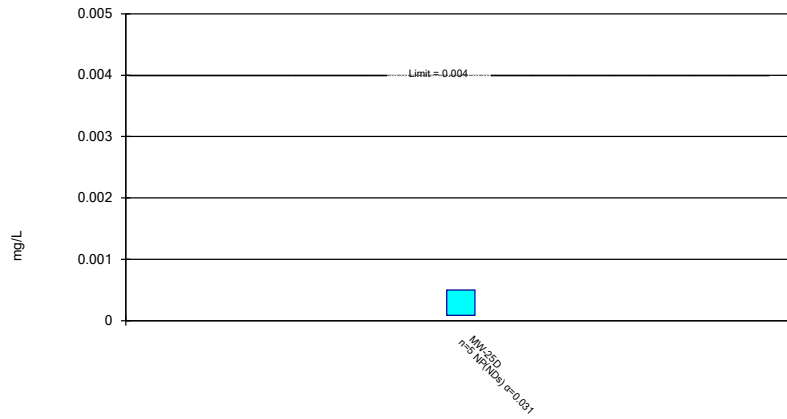
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

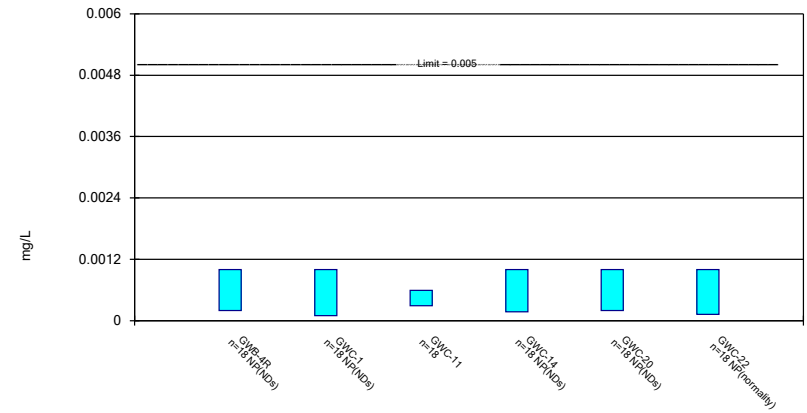
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

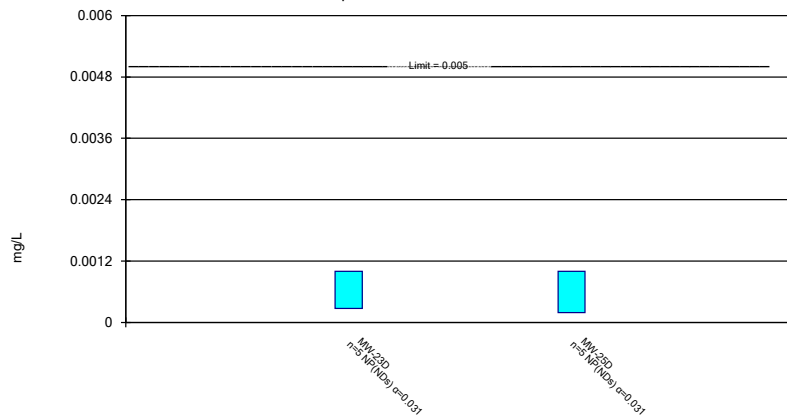
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

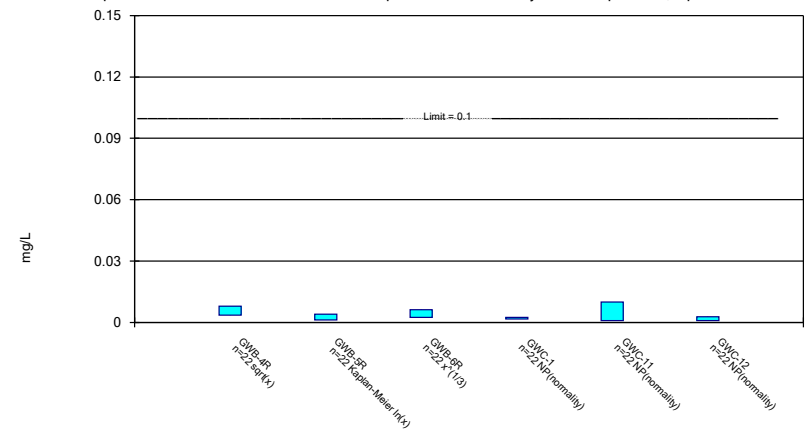
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

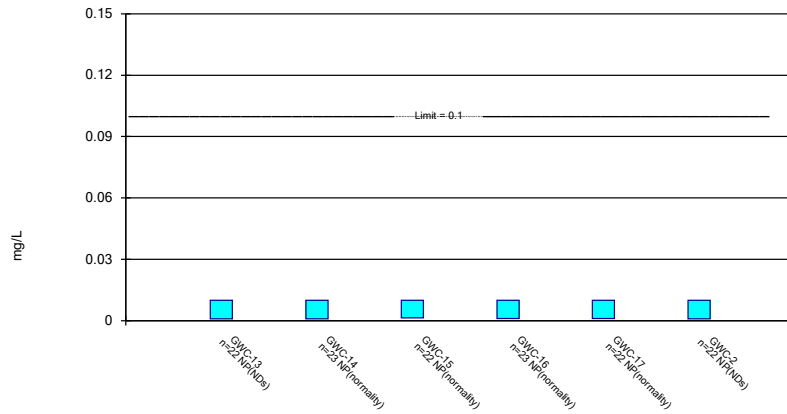
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

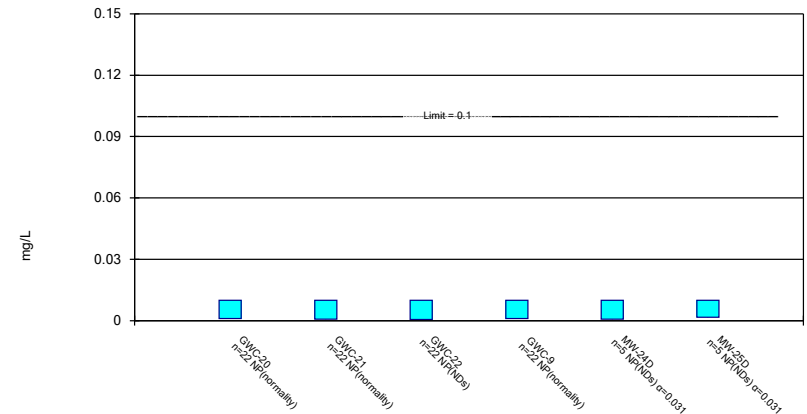
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

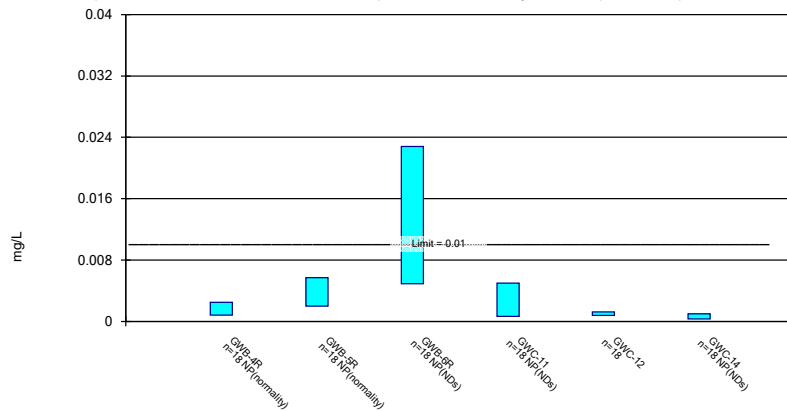
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

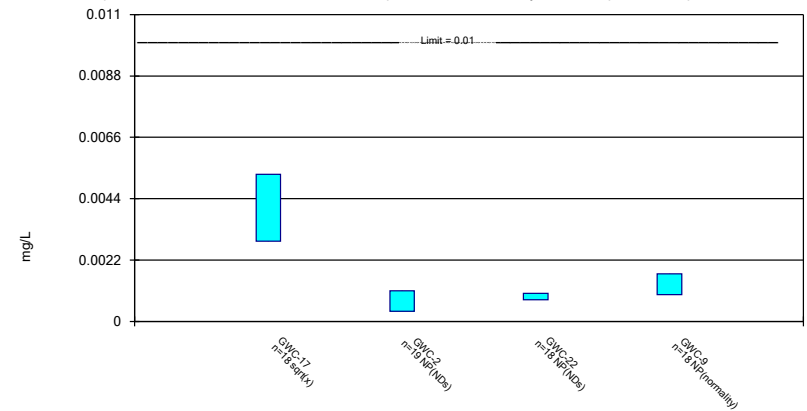
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

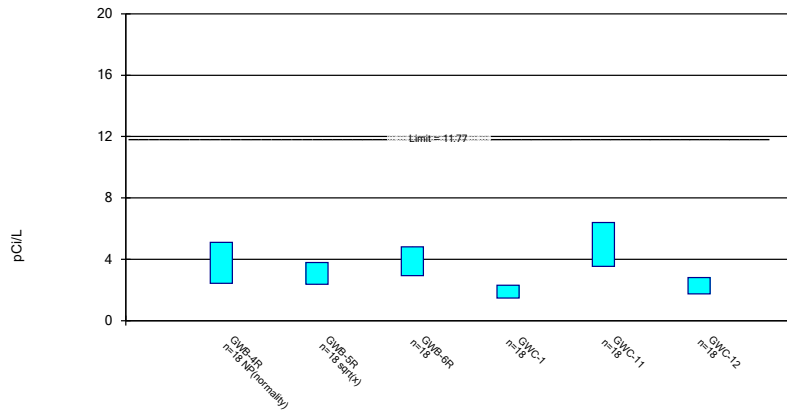
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

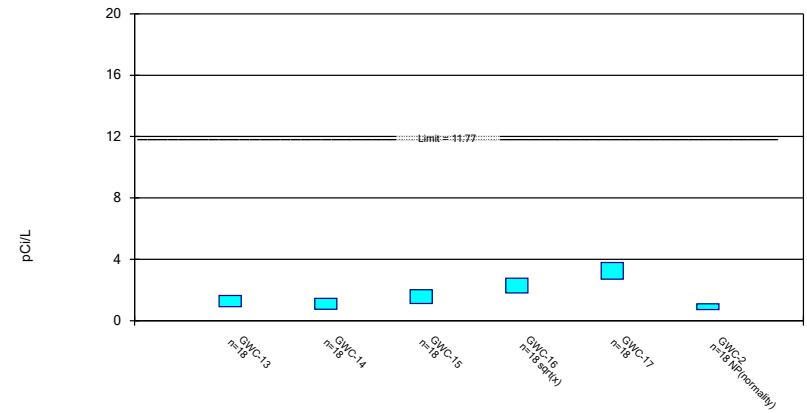
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confi
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

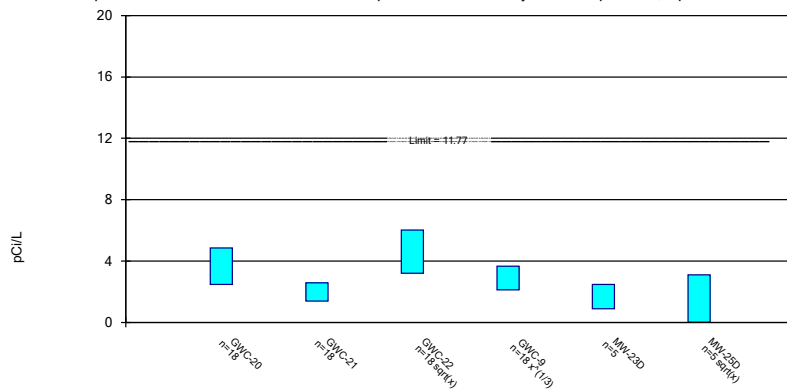
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confi
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric Confidence Interval

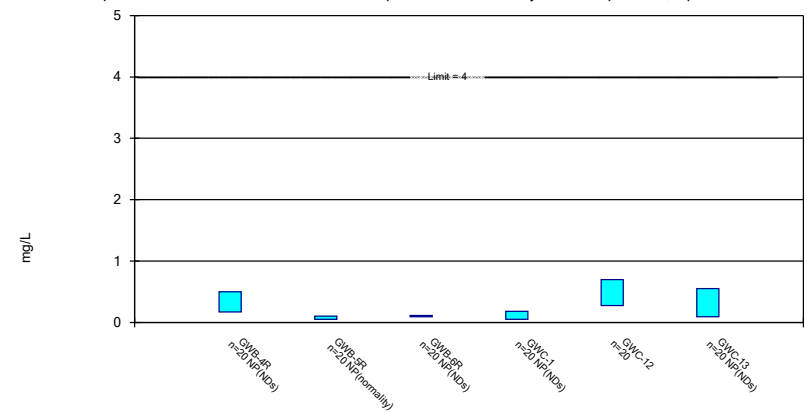
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confi
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

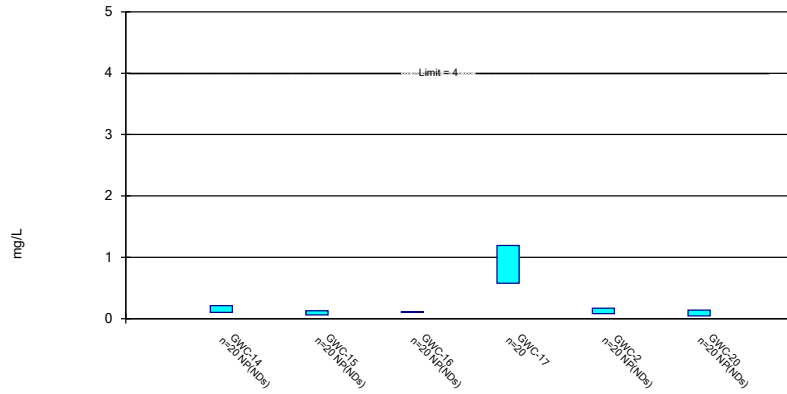
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

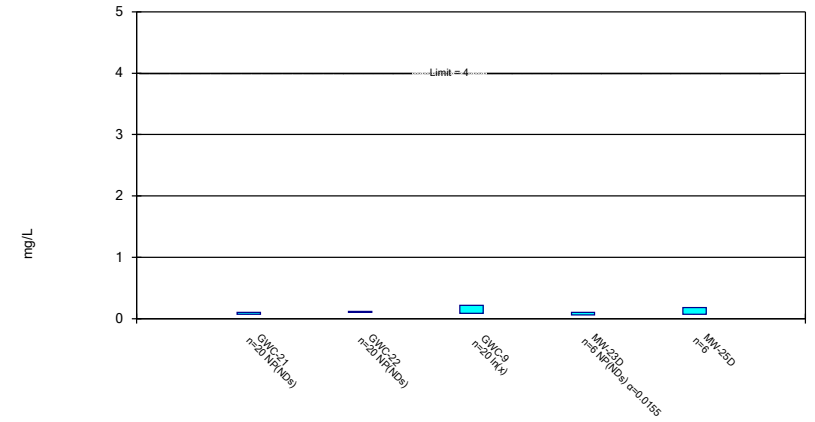
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

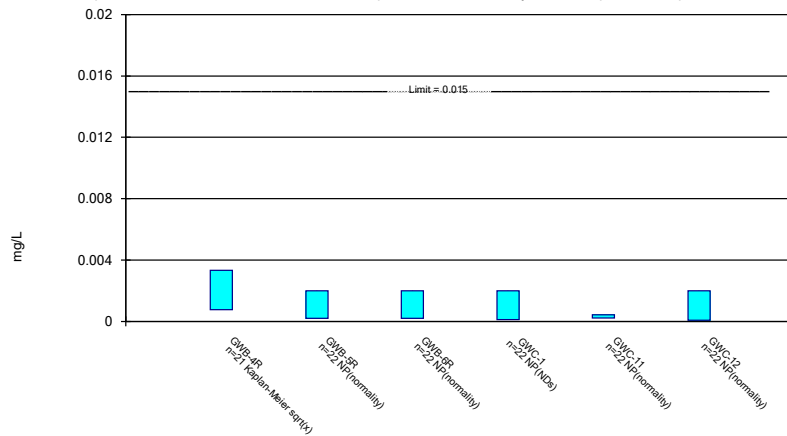
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

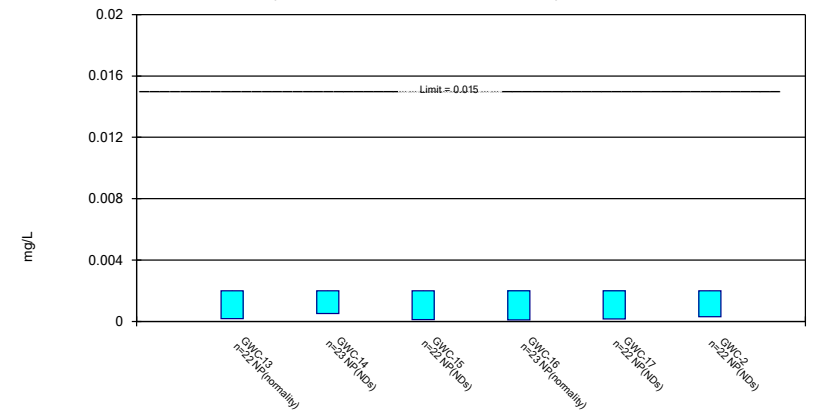
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

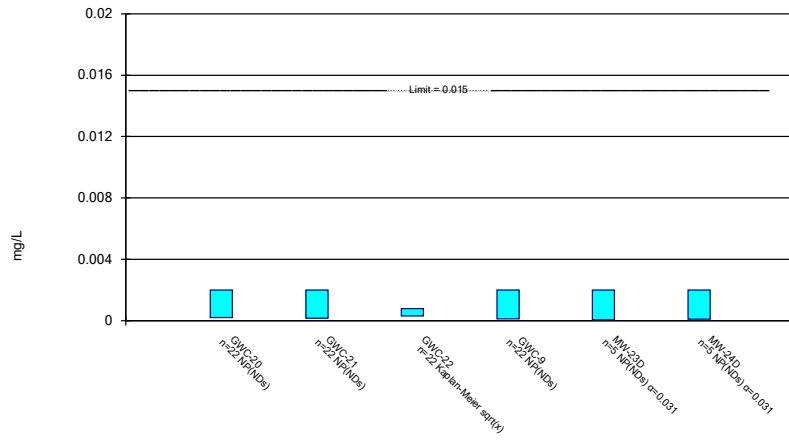
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

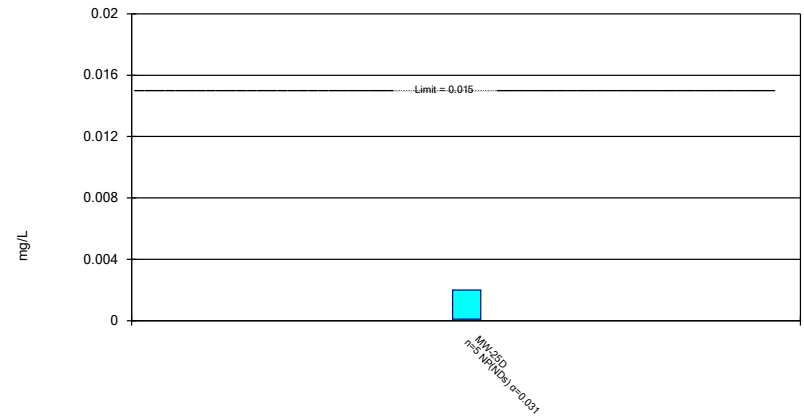
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

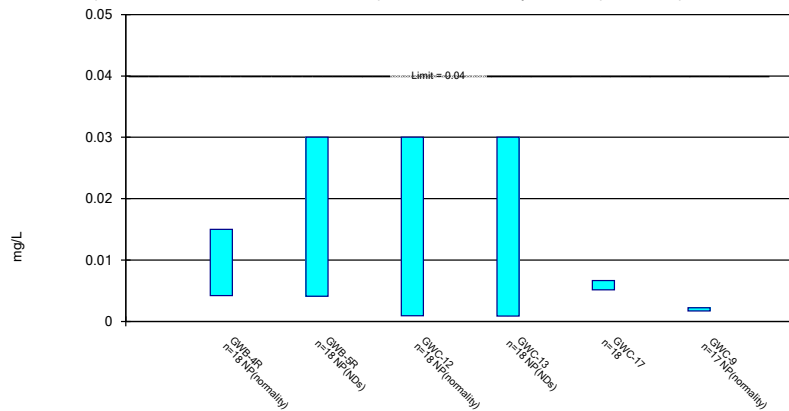
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

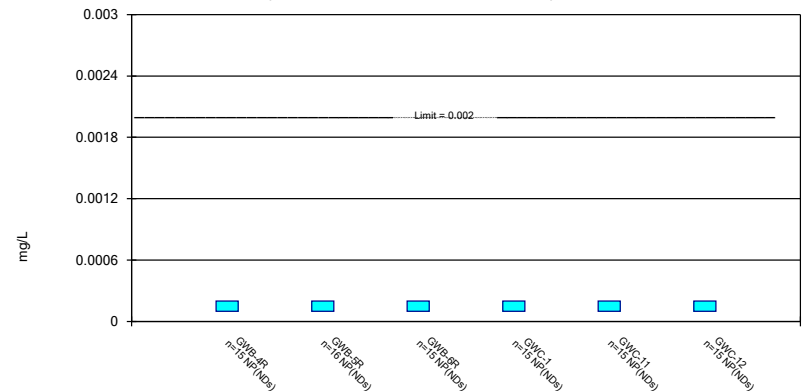
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/8/2023 10:51 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

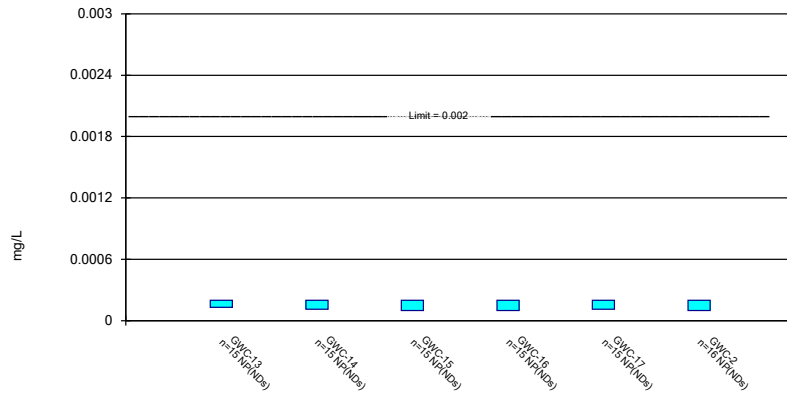
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

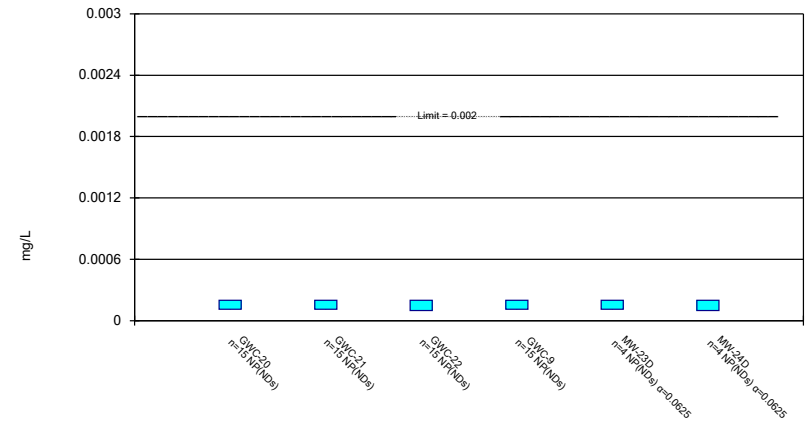
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

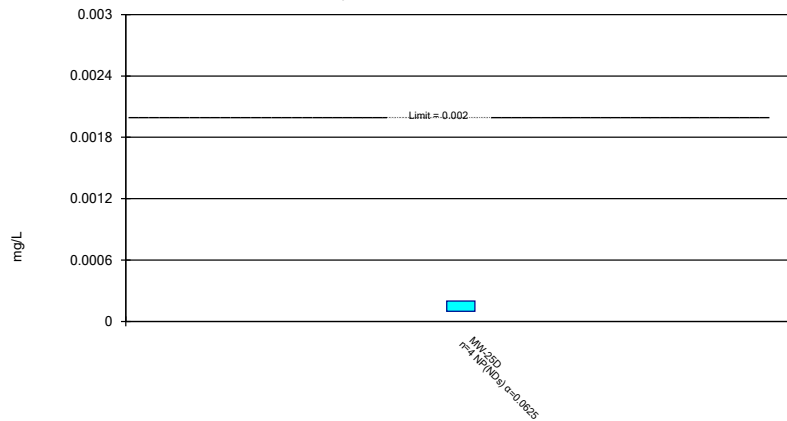
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

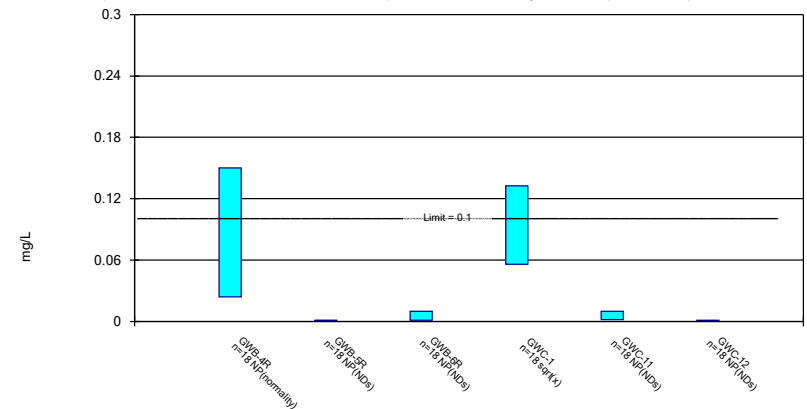
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

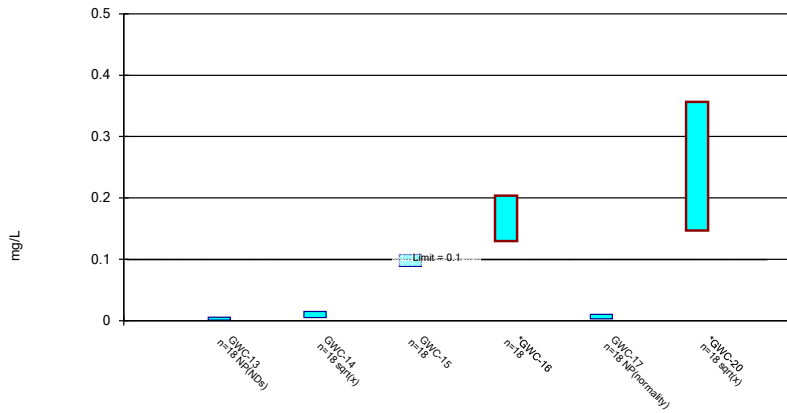
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

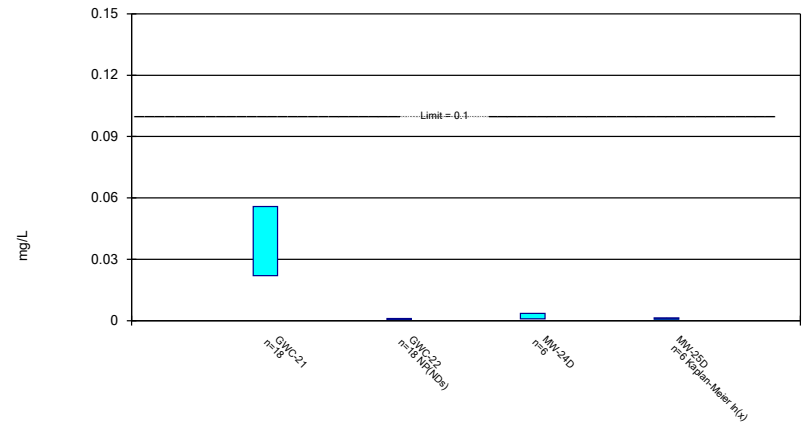
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

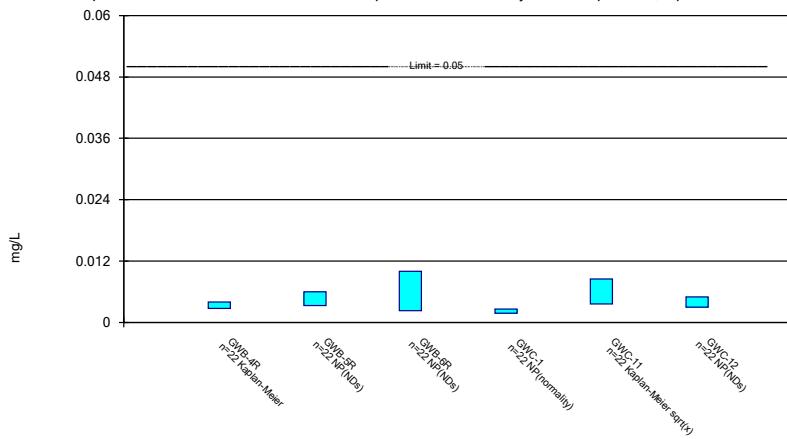
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

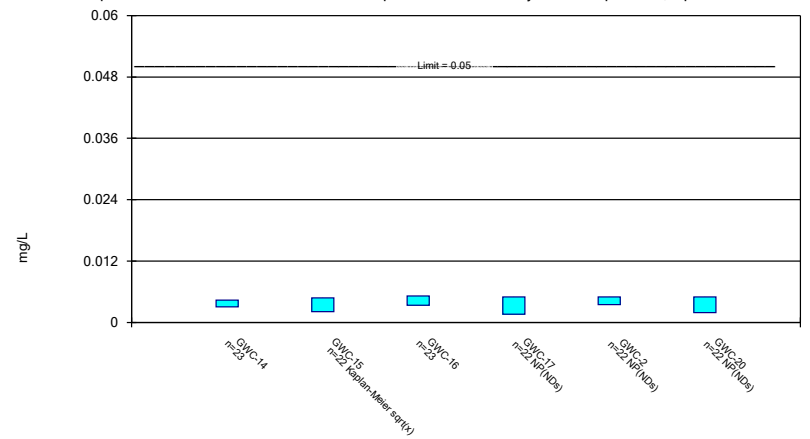
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

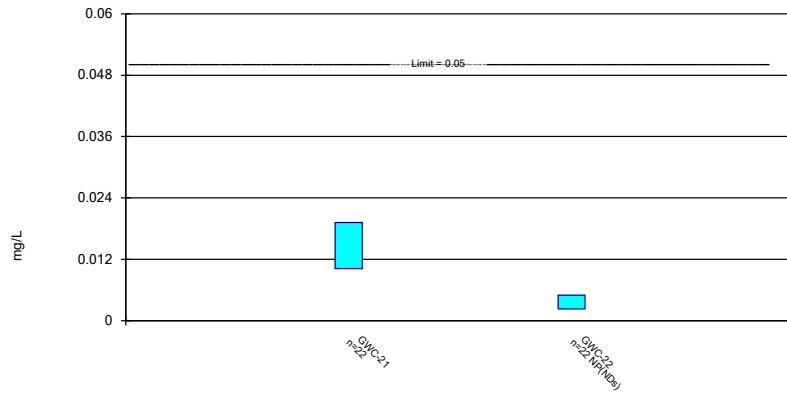
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

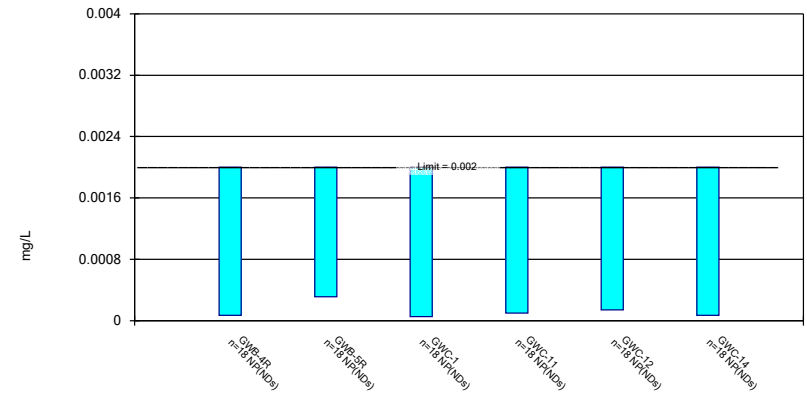
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

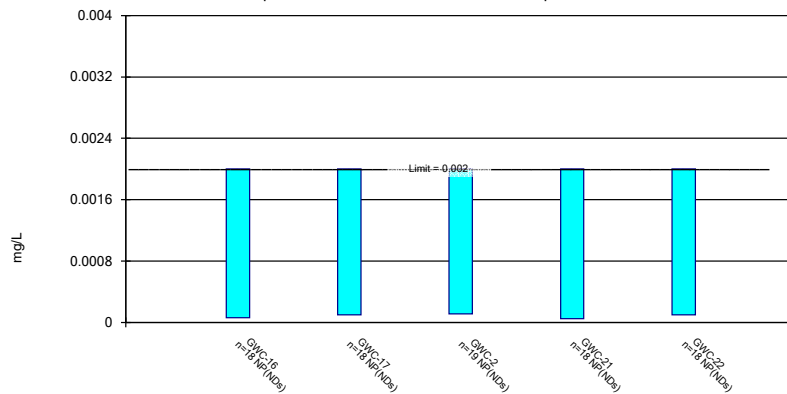
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

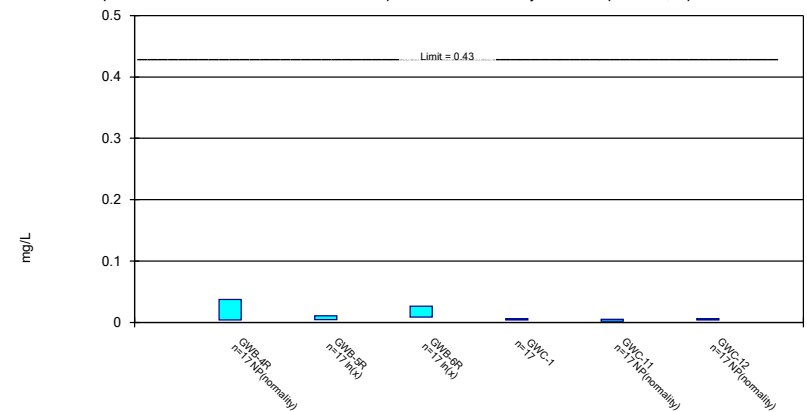
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

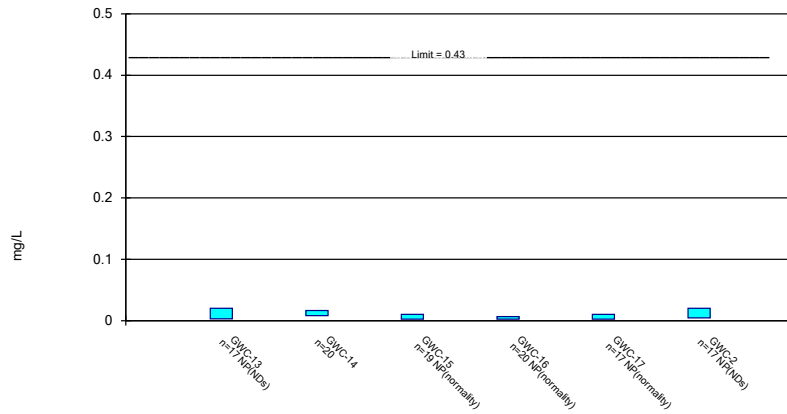
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

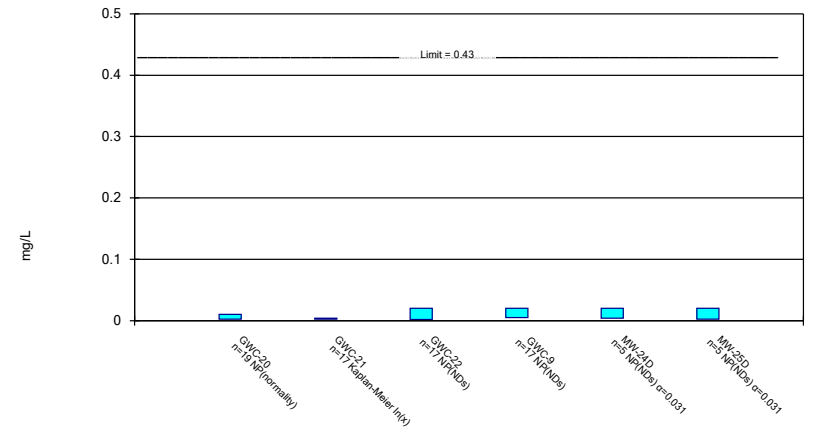
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

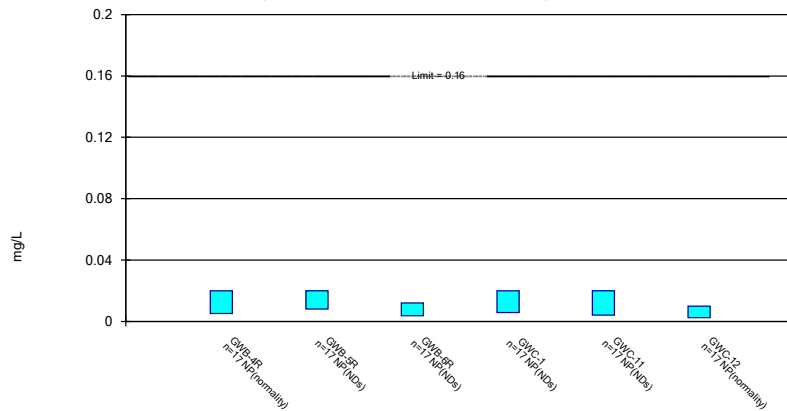
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

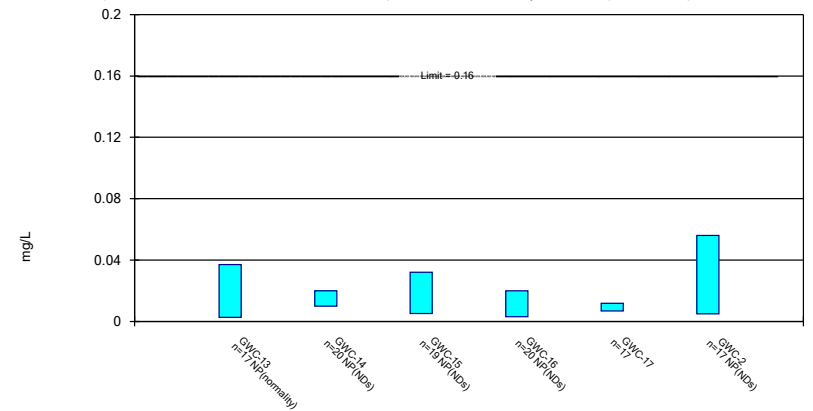
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Zinc Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

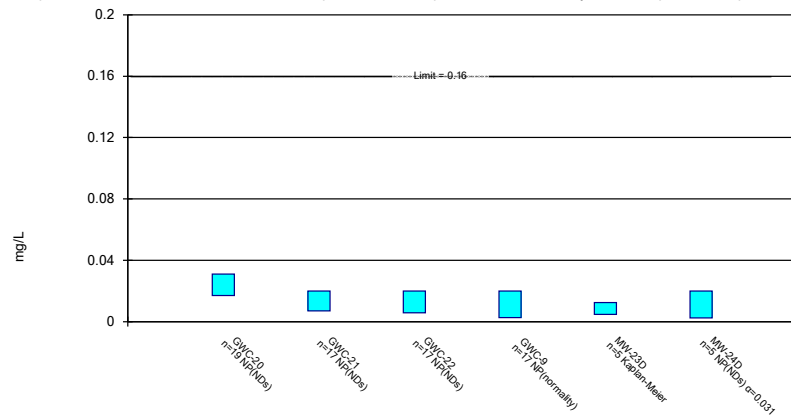
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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: Zinc Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.003		
1/18/2016	<0.003	<0.003	<0.003			<0.003
1/19/2016					<0.003	
7/26/2016					0.0005 (J)	
7/27/2016		<0.003		<0.003		<0.003
7/28/2016			<0.003			
7/29/2016	0.0003 (J)					
8/30/2016		<0.003	<0.003	<0.003		
8/31/2016					<0.003	<0.003
9/1/2016	<0.003					
10/25/2016				<0.003		
10/26/2016	<0.003	<0.003	<0.003		<0.003	<0.003
1/3/2017		<0.003				
1/4/2017				<0.003	<0.003	<0.003
1/5/2017			<0.003			
1/6/2017	<0.003					
4/4/2017	<0.003			<0.003		
4/5/2017						<0.003
4/6/2017		<0.003	<0.003		0.0006 (J)	
7/10/2017						<0.003
7/11/2017					0.0009 (J)	
7/12/2017	<0.003	<0.003	<0.003	<0.003		
10/3/2017		<0.003	<0.003	<0.003	<0.003	
10/4/2017	<0.003					<0.003
1/9/2018			<0.003			
1/10/2018		<0.003		<0.003		
1/11/2018	<0.003				0.0007 (J)	<0.003
7/10/2018		<0.003	<0.003	<0.003		
7/11/2018	<0.003				<0.003	<0.003
1/16/2019	<0.003	<0.003	<0.003	<0.003		
1/17/2019					<0.003	<0.003
3/25/2019	<0.003					
3/26/2019		<0.003	<0.003	<0.003		
3/27/2019					<0.003	<0.003
8/27/2019	<0.003		<0.003	<0.003	0.00033 (J)	<0.003
8/28/2019		0.00054 (J)				
10/8/2019					0.00046 (J)	
10/9/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/7/2020	<0.003	<0.003	<0.003	<0.003	0.00066 (J)	<0.003
8/17/2020						<0.003
8/18/2020					0.00064 (J)	
8/19/2020	<0.003	<0.003	<0.003	0.00061 (J)		
9/28/2020				0.00035 (J)		
9/29/2020					0.00051 (J)	<0.003
9/30/2020		0.0003 (J)	0.00059 (J)			
10/1/2020	<0.003					
3/10/2021	<0.003	<0.003	0.00029 (J)	0.00069 (J)	0.00076 (J)	0.0003 (J)
9/21/2021	<0.003	0.0013 (J)	<0.003		<0.003	<0.003
9/23/2021				0.0016 (J)		
2/2/2022	<0.003		<0.003			
2/3/2022		<0.003		<0.003	<0.003	<0.003
8/30/2022	<0.003	<0.003	<0.003			<0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.003	
9/1/2022				<0.003		
2/1/2023		<0.003	<0.003		<0.003	<0.003
2/2/2023	<0.003			<0.003		
Mean	0.002877	0.002688	0.002767	0.002602	0.001912	0.002877
Std. Dev.	0.0005756	0.0008192	0.0007547	0.0008878	0.001225	0.0005756
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0013	0.00059	0.0016	0.00064	0.0003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-17	GWC-2	GWC-20	GWC-21
1/17/2016		<0.003		<0.003	<0.003	<0.003
1/18/2016	<0.003		<0.003			
7/26/2016	0.0006 (J)					
7/27/2016		<0.003		<0.003		
7/28/2016					0.0019 (J)	<0.003
7/29/2016			<0.003			
8/31/2016	<0.003			<0.003		
9/1/2016		<0.003	<0.003		<0.003	<0.003
10/25/2016		<0.003			<0.003	<0.003
10/26/2016	<0.003		<0.003	<0.003		
1/4/2017					<0.003	<0.003
1/5/2017	<0.003	<0.003	<0.003	<0.003		
4/3/2017		<0.003				
4/4/2017				<0.003	<0.003	<0.003
4/5/2017			<0.003			
4/6/2017	<0.003					
7/11/2017		<0.003			<0.003	
7/12/2017	<0.003					
7/13/2017			<0.003	<0.003		<0.003
10/2/2017		<0.003			<0.003	
10/3/2017				<0.003		<0.003
10/4/2017	<0.003		<0.003			
1/9/2018		<0.003				<0.003
1/10/2018	<0.003			<0.003	<0.003	
1/11/2018			<0.003			
7/9/2018					<0.003	
7/10/2018		<0.003		<0.003		<0.003
7/11/2018	<0.003		<0.003			
1/16/2019	<0.003		<0.003			
1/17/2019		<0.003				<0.003
1/21/2019				<0.003	<0.003	
3/25/2019					<0.003	
3/26/2019	<0.003	<0.003	<0.003			<0.003
7/30/2019				<0.003		
8/27/2019	<0.003	<0.003		<0.003		
8/28/2019			<0.003		<0.003	<0.003
10/8/2019	<0.003	<0.003				<0.003
10/9/2019			<0.003	<0.003	<0.003	
4/7/2020		<0.003				<0.003
4/8/2020	<0.003		<0.003	0.0013 (J)	<0.003	
8/17/2020	<0.003					
8/18/2020		<0.003	<0.003	<0.003	<0.003	<0.003
9/28/2020	<0.003					
9/29/2020				0.0016 (J)		
9/30/2020		<0.003	<0.003		<0.003	0.00033 (J)
3/11/2021			0.00039 (J)			
3/12/2021		0.0018 (J)			0.00065 (J)	
3/15/2021	<0.003			<0.003		
3/16/2021						<0.003
9/21/2021	<0.003					
9/22/2021			0.0014 (J)	<0.003	<0.003	<0.003
9/23/2021		<0.003				

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-17	GWC-2	GWC-20	GWC-21
2/1/2022			<0.003		<0.003	<0.003
2/2/2022				<0.003		
2/3/2022	<0.003	<0.003				
8/30/2022					<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003			
9/1/2022				<0.003		
2/1/2023	<0.003		0.00286 (J)		<0.003	
2/2/2023		<0.003		<0.003		<0.003
Mean	0.002891	0.002945	0.002802	0.002859	0.002843	0.002879
Std. Dev.	0.0005117	0.0002558	0.0006374	0.0004584	0.000543	0.0005692
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0018	0.00286	0.0016	0.0019	0.00033

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-9
1/18/2016	<0.003	<0.003
7/28/2016		<0.003
7/29/2016	<0.003	
8/31/2016	<0.003	<0.003
10/26/2016	<0.003	
10/27/2016		0.0016 (J)
1/4/2017	<0.003	
1/6/2017		<0.003
4/6/2017	<0.003	<0.003
7/11/2017	<0.003	
7/12/2017		<0.003
10/4/2017	<0.003	<0.003
1/11/2018	<0.003	<0.003
7/11/2018	<0.003	<0.003
1/18/2019	<0.003	<0.003
3/27/2019	<0.003	<0.003
8/27/2019	0.00045 (J)	
8/28/2019		<0.003
10/9/2019	<0.003	<0.003
4/7/2020	0.00049 (J)	
4/8/2020		0.00033 (J)
8/18/2020	0.0022 (J)	
8/19/2020		<0.003
9/30/2020	0.0016 (J)	
10/1/2020		<0.003
3/10/2021	0.0004 (J)	<0.003
9/21/2021	<0.003	
9/22/2021		<0.003
2/2/2022		<0.003
2/3/2022	<0.003	
8/31/2022	<0.003	
9/1/2022		<0.003
2/1/2023		<0.003
2/2/2023	<0.003	
Mean	0.002552	0.002815
Std. Dev.	0.0009192	0.00063
Upper Lim.	0.003	0.003
Lower Lim.	0.0022	0.0016

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
1/17/2016				0.024 (O)		
1/18/2016	<0.005	<0.005	<0.025		<0.005	<0.005
7/26/2016						<0.005
7/27/2016		0.0008 (J)		0.0046 (J)	<0.005	
7/28/2016			0.0009 (J)			
7/29/2016	0.0014 (J)					
8/30/2016		<0.005	<0.025	0.0023 (J)		
8/31/2016					<0.005	<0.005
9/1/2016	0.0033 (J)					
10/25/2016				0.0035 (J)		
10/26/2016	0.0016 (J)	<0.005	<0.025		<0.005	<0.005
1/3/2017		<0.005				
1/4/2017				0.0018 (J)	<0.005	
1/5/2017			0.0021 (J)			<0.005
1/6/2017	<0.005					
4/4/2017	0.0021 (J)			0.0015 (J)		
4/5/2017					0.0006 (J)	
4/6/2017		0.0006 (J)	0.0011 (J)			<0.005
7/10/2017					0.0008 (J)	
7/12/2017	0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)		<0.005
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)		
10/4/2017	0.0018 (J)				0.0009 (J)	<0.005
1/9/2018			0.0017 (J)			
1/10/2018		0.0012 (J)		0.0023 (J)		0.0006 (J)
1/11/2018	0.0015 (J)				<0.005	
7/10/2018		0.0016 (J)	0.00063 (J)	0.0031 (J)		
7/11/2018	0.00095 (J)				<0.005	<0.005
1/16/2019	0.0024 (J)	0.0011 (J)	<0.025	0.0023 (J)		<0.005
1/17/2019					<0.005	
3/25/2019	0.0029 (J)					
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)		0.00058 (J)
3/27/2019					<0.005	
8/27/2019	0.0023 (J)		0.0035 (J)	0.0022 (J)	<0.005	<0.005
8/28/2019		0.0023 (J)				
10/8/2019						<0.005
10/9/2019	0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)	<0.005	
4/7/2020	0.0027 (J)	0.0011 (J)	<0.025	0.027	<0.005	
4/8/2020						<0.005
8/17/2020					<0.005	<0.005
8/19/2020	0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007		
9/28/2020				0.0058		<0.005
9/29/2020					<0.005	
9/30/2020		0.0017 (J)	0.004 (J)			
10/1/2020	0.0027 (J)					
3/10/2021	0.0025 (J)	0.0019 (J)	0.0054	0.0055	<0.005	
3/15/2021						<0.005
9/21/2021	0.0027 (J)	<0.005	0.0054		<0.005	<0.005
9/23/2021				0.0048 (J)		
2/2/2022	0.0036 (J)		0.01			
2/3/2022		0.0029 (J)		0.0057	0.0016 (J)	0.0025 (J)
8/30/2022	0.0049 (J)	0.00253 (J)	0.00716		<0.005	
8/31/2022						<0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
9/1/2022				0.00568		
2/1/2023		0.00295 (J)	0.0042 (J)		<0.005	<0.005
2/2/2023	0.00556			0.00433 (J)		
Mean	0.002596	0.002554	0.008281	0.004743	0.004268	0.004485
Std. Dev.	0.001087	0.001687	0.009537	0.005371	0.001597	0.001368
Upper Lim.	0.003179	0.002121	0.003572	0.005204	0.005	0.005
Lower Lim.	0.002012	0.001131	0.001552	0.002437	0.0016	0.0025

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
1/17/2016	0.002 (J)	0.014	0.089		<0.005	0.34
1/18/2016				<0.005		
4/26/2016	0.00183 (J)		0.0731			
7/27/2016	0.0021 (J)	0.0303			<0.005	
7/28/2016			0.0627			0.209
7/29/2016				0.0009 (J)		
8/31/2016					<0.005	
9/1/2016	0.0024 (J)	0.0533	0.0551	<0.005		0.215
10/25/2016	<0.005	0.0551	0.0466			0.307
10/26/2016				<0.005	<0.005	
1/4/2017			0.0444			0.311
1/5/2017	0.0024 (J)	0.0437		<0.005	<0.005	
4/3/2017		0.0713				
4/4/2017	0.003 (J)				<0.005	0.317
4/5/2017			0.0591	0.0011 (J)		
7/11/2017	0.0019 (J)	0.0745				0.299
7/12/2017			0.0776			
7/13/2017				0.0016 (J)	<0.005	
10/2/2017	0.0026 (J)	0.0723				0.216
10/3/2017			0.0813		<0.005	
10/4/2017				0.0019 (J)		
1/9/2018	0.0021 (J)	0.0731				
1/10/2018			0.085		0.0006 (J)	0.347
1/11/2018				0.0015 (J)		
7/9/2018	0.0019 (J)					0.37
7/10/2018		0.09	0.067		<0.005	
7/11/2018				0.00082 (J)		
1/16/2019	0.0016 (J)			<0.005		
1/17/2019		0.13	0.079			
1/21/2019					<0.005	0.44
3/25/2019						0.41
3/26/2019	0.0023 (J)	0.1	0.089	0.0015 (J)		
7/30/2019					0.00039 (J)	
8/27/2019	0.0017 (J)	0.17			<0.005	
8/28/2019			0.091	0.0011 (J)		0.43
10/8/2019	0.0017 (J)	0.13	0.088			
10/9/2019				0.0011 (J)	<0.005	0.35
4/7/2020	0.0018 (J)	0.24	0.091			
4/8/2020				0.0013 (J)	0.00094 (J)	0.33
8/18/2020	0.0012 (J)	0.28	0.045	<0.005	<0.005	0.3
9/29/2020	<0.005				<0.005	
9/30/2020		0.24	0.044	0.0012 (J)		0.31
3/11/2021				0.0009 (J)		
3/12/2021		0.16				0.27
3/15/2021					<0.005	
3/16/2021	<0.005		0.064			
9/22/2021	0.0014 (J)		0.081	<0.005	<0.005	0.23
9/23/2021		0.21				
2/1/2022			0.095	<0.005		0.22
2/2/2022	0.0036 (J)				<0.005	
2/3/2022		0.23				
8/30/2022	<0.005					0.465

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2022		0.259		<0.005		
9/1/2022			0.0987		<0.005	
2/1/2023			0.115	<0.005		0.389
2/2/2023	0.00261 (J)	0.207			<0.005	
Mean	0.002615	0.1333	0.07485	0.002951	0.004406	0.3216
Std. Dev.	0.001233	0.08334	0.01957	0.001929	0.001533	0.07588
Upper Lim.	0.002249	0.1781	0.08509	0.005	0.005	0.3623
Lower Lim.	0.001669	0.08861	0.06462	0.0011	0.00094	0.2809

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-25D
1/17/2016	0.0065			
1/18/2016		<0.005	<0.005	
7/28/2016	<0.005		<0.005	
7/29/2016		0.002 (J)		
8/31/2016		0.0017 (J)	<0.005	
9/1/2016	0.0039 (J)			
10/25/2016	<0.005			
10/26/2016		<0.005		
10/27/2016			<0.005	
1/4/2017	<0.005	<0.005		
1/6/2017			<0.005	
4/4/2017	0.0031 (J)			
4/6/2017		0.0006 (J)	<0.005	
7/11/2017		0.0012 (J)		
7/12/2017			<0.005	
7/13/2017	<0.005			
10/3/2017	<0.005			
10/4/2017		0.0025 (J)	<0.005	
1/9/2018	0.0033 (J)			
1/11/2018		0.0006 (J)	<0.005	
7/10/2018	0.0027 (J)			
7/11/2018		0.0011 (J)	<0.005	
1/17/2019	0.0022 (J)			
1/18/2019		<0.005	<0.005	
3/26/2019	0.0045 (J)			
3/27/2019		<0.005	<0.005	
8/27/2019		0.00044 (J)		
8/28/2019	0.002 (J)		<0.005	
10/8/2019	0.0028 (J)			
10/9/2019		<0.005	<0.005	
4/7/2020	<0.005	0.00043 (J)		
4/8/2020			0.00084 (J)	
8/18/2020	0.0059	<0.005		
8/19/2020			<0.005	
9/30/2020	0.0029 (J)	<0.005		
10/1/2020			<0.005	
1/20/2021				<0.005
3/10/2021		<0.005	<0.005	
3/11/2021				0.00092 (J)
3/16/2021	0.0098			
9/21/2021		<0.005		
9/22/2021	<0.005		<0.005	
9/23/2021				<0.005
2/1/2022	0.02			
2/2/2022			<0.005	
2/3/2022		<0.005		<0.005
8/30/2022	0.0271			
8/31/2022		<0.005		<0.005
9/1/2022			<0.005	
2/1/2023			<0.005	
2/2/2023	0.0323	<0.005		<0.005
Mean	0.007455	0.003435	0.004811	0.00432

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-25D
Std. Dev.	0.00814	0.00198	0.0008869	0.001666
Upper Lim.	0.0059	0.005	0.005	0.005
Lower Lim.	0.0031	0.0012	0.00084	0.00092

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.062		
1/18/2016	0.095	0.12	0.11			0.032
1/19/2016					0.048	
7/26/2016					0.051	
7/27/2016		0.112		0.0417		0.0191
7/28/2016			0.105			
7/29/2016	0.0883					
8/30/2016		0.135	0.106	0.0545		
8/31/2016					0.0565	0.019
9/1/2016	0.123					
10/25/2016				0.0504		
10/26/2016	0.0863	0.103	0.107		0.0591	0.0197
1/3/2017		0.118				
1/4/2017				0.0534	0.0598	0.0174
1/5/2017			0.107			
1/6/2017	0.0758					
4/4/2017	0.091			0.0549		
4/5/2017						0.0174
4/6/2017		0.162	0.111		0.0813	
7/10/2017						0.0172
7/11/2017					0.0302	
7/12/2017	0.0941	0.157	0.106	0.0614		
10/3/2017		0.127	0.105	0.0436	0.103	
10/4/2017	0.0994					0.0162
1/9/2018			0.0969			
1/10/2018		0.158		0.053		
1/11/2018	0.088				0.166	0.018
7/10/2018		0.31	0.087	0.059		
7/11/2018	0.071				0.12	0.014
1/16/2019	0.083	0.054	0.013 (J)	0.054		
1/17/2019					0.039	0.017
3/25/2019	0.077					
3/26/2019		0.057	0.012 (J)	0.055		
3/27/2019					0.053	0.017
8/27/2019	0.076		0.013	0.054	0.12	0.017
8/28/2019		0.1				
10/8/2019					0.13	
10/9/2019	0.076	0.13	0.014 (J)	0.058		0.019
4/7/2020	0.09	0.098	0.01 (J)	0.05	0.14	0.017
8/17/2020						0.018
8/18/2020					0.12	
8/19/2020	0.076	0.1	0.064	0.057		
9/28/2020				0.051		
9/29/2020					0.14	0.018
9/30/2020		0.16	0.092			
10/1/2020	0.077					
3/10/2021	0.07	0.096	0.027	0.052	0.13	0.028
9/21/2021	0.098	0.076	0.077		0.12	0.023
9/23/2021				0.062		
2/2/2022	0.17		0.026			
2/3/2022		0.062		0.051	0.17	0.025
8/30/2022	0.134	0.051	0.0266			0.0275

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					0.115	
9/1/2022				0.0583		
2/1/2023		0.101	0.0233		0.146	0.0256
2/2/2023	0.101			0.0466		
Mean	0.09272	0.1176	0.0654	0.05376	0.0999	0.0201
Std. Dev.	0.02344	0.05498	0.04176	0.005427	0.04345	0.00464
Upper Lim.	0.098	0.1404	0.106	0.05668	0.1232	0.023
Lower Lim.	0.076	0.08761	0.0233	0.05085	0.07658	0.017

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.038	0.048	0.056		0.049
1/18/2016	0.026				0.13	
4/26/2016		0.025		0.0721		
7/26/2016	0.0236					
7/27/2016		0.0248	0.0487			0.0796
7/28/2016				0.0534		
7/29/2016					0.181	
8/31/2016	0.0273					0.0429
9/1/2016		0.0346	0.0403	0.0445	0.203	
10/25/2016		0.0248	0.0329	0.0464		
10/26/2016	0.0238				0.177	0.113 (O)
1/4/2017				0.0379		
1/5/2017	0.0218	0.0245	0.0392		0.142	0.0526
4/3/2017			0.0439			
4/4/2017		0.0342				0.0503
4/5/2017				0.0534	0.106	
4/6/2017	0.0204					
7/11/2017		0.0276	0.051			
7/12/2017	0.0161			0.0944		
7/13/2017					0.0686	0.0529
10/2/2017		0.0274	0.047			
10/3/2017				0.135 (O)		0.057
10/4/2017	0.0185				0.0589	
1/9/2018		0.0222	0.0431			
1/10/2018	0.0166			0.0603		0.0527
1/11/2018					0.0412	
7/9/2018		0.026				
7/10/2018			0.047	0.16 (O)		0.054
7/11/2018	0.019				0.049	
1/16/2019	0.019	0.028			0.063	
1/17/2019			0.042	0.13		
1/21/2019						0.05
3/26/2019	0.026	0.034	0.047	0.14	0.025	
7/30/2019						0.052
8/27/2019	0.024	0.067	0.049			0.053
8/28/2019				0.09	0.026	
10/8/2019	0.024	0.085	0.057	0.13		
10/9/2019					0.032	0.05
4/7/2020		0.073	0.033	0.13		
4/8/2020	0.027				0.055	0.061
8/17/2020	0.024					
8/18/2020		0.028	0.03	0.32	0.074	0.05
9/28/2020	0.029					
9/29/2020		0.026				0.049
9/30/2020			0.034	0.14	0.035	
3/11/2021					0.044	
3/12/2021			0.038			
3/15/2021	0.034					0.053
3/16/2021		0.037		0.16		
9/21/2021	0.037					
9/22/2021		0.11		0.26	0.058	0.047
9/23/2021			0.062			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				0.23	0.055	
2/2/2022		0.1				0.052
2/3/2022	0.038		0.061			
8/30/2022		0.0773				
8/31/2022	0.0379		0.055		0.0375	
9/1/2022				0.165		0.0508
2/1/2023	0.0367			0.163	0.0262	
2/2/2023		0.0617	0.0557			0.0461
Mean	0.0259	0.04505	0.04567	0.1227	0.0767	0.05261
Std. Dev.	0.006931	0.02694	0.00909	0.07628	0.05472	0.007226
Upper Lim.	0.02962	0.067	0.05055	0.1648	0.09677	0.053
Lower Lim.	0.02218	0.026	0.04079	0.08061	0.04565	0.049

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	0.08	0.079				
1/18/2016			0.062	0.2		
7/28/2016	0.164	0.0626		0.234		
7/29/2016			0.0575			
8/31/2016			0.0693	0.284		
9/1/2016	0.0976	0.077				
10/25/2016	0.0702	0.0217				
10/26/2016			0.0966			
10/27/2016				0.244		
1/4/2017	0.0999	0.0617	0.0975			
1/6/2017				0.305		
4/4/2017	0.136	0.0761				
4/6/2017			0.064	0.249		
7/11/2017	0.145		0.0778			
7/12/2017				0.256		
7/13/2017		0.0428				
10/2/2017	0.148					
10/3/2017		0.0376				
10/4/2017			0.156	0.356		
1/9/2018		0.0704				
1/10/2018	0.0788					
1/11/2018			0.0702	0.226		
7/9/2018	0.087					
7/10/2018		0.061				
7/11/2018			0.12	0.29		
1/17/2019		0.061				
1/18/2019			0.052	0.21		
1/21/2019	0.069					
3/25/2019	0.085					
3/26/2019		0.084				
3/27/2019			0.057	0.19		
8/27/2019			0.097			
8/28/2019	0.078	0.063		0.17		
10/8/2019		0.079				
10/9/2019	0.078		0.065	0.18		
4/7/2020		0.054	0.1			
4/8/2020	0.19			0.15		
8/18/2020	0.38	0.18	0.085			
8/19/2020				0.17		
9/30/2020	0.35	0.19	0.045			
10/1/2020				0.15		
3/10/2021			0.049	0.15		
3/11/2021					0.076	0.047
3/12/2021	0.34					
3/16/2021		0.18				
9/21/2021			0.036			
9/22/2021	0.42	0.046		0.15	0.076	0.038
2/1/2022	0.36	0.24				0.036
2/2/2022				0.15		
2/3/2022			0.038		0.079	
8/30/2022	0.21	0.191				
8/31/2022			0.0741		0.0765	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
9/1/2022				0.151		0.0267
2/1/2023	0.194			0.128	0.06	
2/2/2023		0.196	0.0456			0.0268
Mean	0.1755	0.0979	0.07339	0.2088	0.0735	0.0349
Std. Dev.	0.1167	0.06422	0.02899	0.06196	0.007649	0.008516
Upper Lim.	0.202	0.1194	0.08895	0.242	0.079	0.04917
Lower Lim.	0.1036	0.05978	0.05783	0.1755	0.06	0.02063

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	0.03
9/23/2021	0.024
2/3/2022	0.024
8/31/2022	0.0216
2/2/2023	0.0253
Mean	0.02498
Std. Dev.	0.003108
Upper Lim.	0.03019
Lower Lim.	0.01977

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12	GWC-13
8/30/2016		0.0002 (J)	<0.0005			
8/31/2016				<0.0005	0.0011 (J)	<0.0005
9/1/2016	0.0004 (J)					
10/26/2016	0.0001 (J)	0.0001 (J)	<0.0005	<0.0005	0.0011 (J)	<0.0005
1/3/2017		0.0001 (J)				
1/4/2017				<0.0005	0.0009 (J)	
1/5/2017			<0.0005			<0.0005
1/6/2017	0.0001 (J)					
4/4/2017	0.0001 (J)					
4/5/2017					0.0008 (J)	
4/6/2017		0.0003 (J)	<0.0005	<0.0005		<0.0005
7/10/2017					0.0008 (J)	
7/11/2017				<0.0005		
7/12/2017	<0.0005	0.0002 (J)	<0.0005			<0.0005
10/3/2017		0.0002 (J)	<0.0005	<0.0005		
10/4/2017	0.0001 (J)				0.0006 (J)	<0.0005
1/9/2018			<0.0005			
1/10/2018		0.0003 (J)				<0.0005
1/11/2018	0.0001 (J)			<0.0005	0.0006 (J)	
7/10/2018		0.00028 (J)	<0.0005			
7/11/2018	<0.0005			<0.0005	0.00061 (J)	5.8E-05 (J)
8/27/2019	<0.0005		<0.0005	<0.0005	0.00047 (J)	<0.0005
8/28/2019		7.6E-05 (J)				
10/8/2019				<0.0005		<0.0005
10/9/2019	<0.0005	<0.0005	<0.0005		0.00046 (J)	
4/7/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00051 (J)	
4/8/2020						<0.0005
8/17/2020					0.00046 (J)	<0.0005
8/18/2020				<0.0005		
8/19/2020	<0.0005	<0.0005	5E-05 (J)			
9/28/2020						<0.0005
9/29/2020				<0.0005	0.00043 (J)	
9/30/2020		6.5E-05 (J)	4.6E-05 (J)			
10/1/2020	<0.0005					
3/10/2021	<0.0005	8.2E-05 (J)	<0.0005	4.7E-05 (J)	0.00054	
3/15/2021						<0.0005
9/21/2021	<0.0005	9.9E-05 (J)	<0.0005	<0.0005	0.00047 (J)	<0.0005
2/2/2022	<0.0005		<0.0005			
2/3/2022		0.00014 (J)		<0.0005	0.00056	<0.0005
8/30/2022	<0.0005	<0.0005	<0.0005		0.000663	
8/31/2022				<0.0005		<0.0005
2/1/2023		<0.0005	<0.0005	<0.0005	0.000634	<0.0005
2/2/2023	<0.0005					
Mean	0.0003833	0.0002579	0.0004498	0.0004748	0.0006504	0.0004754
Std. Dev.	0.0001823	0.0001711	0.0001462	0.0001068	0.0002093	0.0001042
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0007441	0.0005
Lower Lim.	0.0001	9.9E-05	5E-05	4.7E-05	0.0005215	5.8E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-16	GWC-17	GWC-2	GWC-22	GWC-9
8/31/2016				<0.0005	0.0002 (J)	0.0003 (J)
9/1/2016	0.0001 (J)	0.0001 (J)	0.0014 (J)			
10/25/2016	<0.0005	<0.0005				
10/26/2016			0.0016 (J)	0.0003 (J)	0.0002 (J)	
10/27/2016						0.0003 (J)
1/4/2017		9E-05 (J)			0.0001 (J)	
1/5/2017	<0.0005		0.0019 (J)	<0.0005		
1/6/2017						0.0002 (J)
4/4/2017	9E-05 (J)			9E-05 (J)		
4/5/2017		9E-05 (J)	0.0024 (J)			
4/6/2017					<0.0005	0.0003 (J)
7/11/2017	<0.0005				<0.0005	
7/12/2017		<0.0005				0.0003 (J)
7/13/2017			0.0034	<0.0005		
10/2/2017	<0.0005					
10/3/2017		<0.0005		<0.0005		
10/4/2017			0.0037		0.0001 (J)	0.0002 (J)
1/9/2018	<0.0005					
1/10/2018		0.0001 (J)		<0.0005		
1/11/2018			0.0033		<0.0005	0.0003 (J)
7/9/2018	6.2E-05 (J)					
7/10/2018		6E-05 (J)		<0.0005		
7/11/2018			0.0038		7E-05 (J)	0.0003 (J)
7/30/2019				<0.0005		
8/27/2019	<0.0005			<0.0005	9E-05 (J)	
8/28/2019		8E-05 (J)	0.0017 (J)			0.00022 (J)
10/8/2019	<0.0005	9.8E-05 (J)				
10/9/2019			0.0018 (J)	<0.0005	<0.0005	0.00023 (J)
4/7/2020	<0.0005	<0.0005			<0.0005	
4/8/2020			0.0017 (J)	8.8E-05 (J)		0.00019 (J)
8/18/2020	<0.0005	6.8E-05 (J)	0.0016 (J)	5.1E-05 (J)	7.6E-05 (J)	
8/19/2020						0.00022 (J)
9/29/2020	<0.0005			7.5E-05 (J)		
9/30/2020		8.9E-05 (J)	0.0013 (J)		<0.0005	
10/1/2020						0.0002 (J)
3/10/2021					<0.0005	0.00019 (J)
3/11/2021			0.0012			
3/15/2021				7.3E-05 (J)		
3/16/2021	<0.0005	<0.0005				
9/21/2021					<0.0005	
9/22/2021	<0.0005	6E-05 (J)	0.0017	<0.0005		0.00017 (J)
2/1/2022		<0.0005	0.002			
2/2/2022	<0.0005			<0.0005		0.00018 (J)
2/3/2022					<0.0005	
8/30/2022	<0.0005					
8/31/2022			0.00258		<0.0005	
9/1/2022		<0.0005		<0.0005		<0.0005
2/1/2023		<0.0005	0.00206			0.000215 (J)
2/2/2023	<0.0005			<0.0005	<0.0005	
Mean	0.0004307	0.0002686	0.002174	0.0003777	0.000352	0.0002369
Std. Dev.	0.0001597	0.0002133	0.0008353	0.0001913	0.0001938	4.932E-05
Upper Lim.	0.0005	0.0005	0.002582	0.0005	0.0005	0.0003

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-16	GWC-17	GWC-2	GWC-22	GWC-9
Lower Lim.	0.0001	8E-05	0.001653	8.8E-05	0.0001	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	8.4E-05 (J)
9/23/2021	<0.0005
2/3/2022	<0.0005
8/31/2022	<0.0005
2/2/2023	<0.0005
Mean	0.0004168
Std. Dev.	0.000186
Upper Lim.	0.0005
Lower Lim.	8.4E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-1	GWC-11	GWC-14	GWC-20	GWC-22
8/30/2016		<0.001				
8/31/2016			0.0002 (J)			8E-05 (J)
9/1/2016	0.0002 (J)			0.0001 (J)	<0.001	
10/25/2016		<0.001		0.0002 (J)	<0.001	
10/26/2016	<0.001		0.0001 (J)			<0.001
1/4/2017		0.0001 (J)	0.0001 (J)		<0.001	0.0001 (J)
1/5/2017				0.0002 (J)		
1/6/2017	9E-05 (J)					
4/4/2017	9E-05 (J)	7E-05 (J)		0.0002 (J)	<0.001	
4/6/2017			0.0002 (J)			0.0001 (J)
7/11/2017			<0.001	0.0002 (J)	<0.001	<0.001
7/12/2017	<0.001	<0.001				
10/2/2017				<0.001	<0.001	
10/3/2017		<0.001	0.0003 (J)			
10/4/2017	<0.001					0.0002 (J)
1/9/2018				<0.001		
1/10/2018		<0.001			<0.001	
1/11/2018	0.0002 (J)		0.0006 (J)			0.0002 (J)
7/9/2018				0.00017 (J)	<0.001	
7/10/2018		<0.001				
7/11/2018	<0.001		0.0004 (J)			0.00023 (J)
8/27/2019	<0.001	<0.001	0.00044 (J)	<0.001		<0.001
8/28/2019					<0.001	
10/8/2019			0.00043 (J)	<0.001		
10/9/2019	<0.001	<0.001			<0.001	0.00012 (J)
4/7/2020	<0.001	<0.001	0.00051 (J)	<0.001		0.00054 (J)
4/8/2020					<0.001	
8/18/2020			0.00058 (J)	<0.001	<0.001	0.00024 (J)
8/19/2020	<0.001	<0.001				
9/28/2020		<0.001				
9/29/2020			0.00077 (J)	0.00012 (J)		
9/30/2020					<0.001	0.00024 (J)
10/1/2020	<0.001					
3/10/2021	<0.001	<0.001	0.0009			<0.001
3/12/2021					0.00018 (J)	
3/16/2021				<0.001		
9/21/2021	<0.001		0.00036 (J)			<0.001
9/22/2021				<0.001	0.00013 (J)	
9/23/2021		<0.001				
2/1/2022					0.0002 (J)	
2/2/2022	<0.001			<0.001		
2/3/2022		<0.001	0.00019 (J)			<0.001
8/30/2022	<0.001			<0.001	<0.001	
8/31/2022			0.000431 (J)			<0.001
9/1/2022		<0.001				
2/1/2023			0.000926 (J)		<0.001	
2/2/2023	<0.001	<0.001		<0.001		<0.001
Mean	0.00081	0.0008983	0.0004409	0.0006772	0.0008617	0.0005583
Std. Dev.	0.0003667	0.0002959	0.0002482	0.0004171	0.0003185	0.0004179
Upper Lim.	0.001	0.001	0.0005911	0.001	0.001	0.001
Lower Lim.	0.0002	0.0001	0.0002908	0.00017	0.0002	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-25D
3/11/2021	<0.001	0.00019 (J)
9/22/2021	0.00027 (J)	
9/23/2021		<0.001
2/3/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
2/1/2023	<0.001	
2/2/2023		<0.001
Mean	0.000854	0.000838
Std. Dev.	0.0003265	0.0003622
Upper Lim.	0.001	0.001
Lower Lim.	0.00027	0.00019

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.01		
1/18/2016	0.014	<0.01	0.0011 (J)			<0.01
1/19/2016					<0.01	
7/26/2016					0.0005 (J)	
7/27/2016		0.0006 (J)		0.0016 (J)		0.0014 (J)
7/28/2016			0.001 (J)			
7/29/2016	0.0077 (J)					
8/30/2016		<0.01	0.0013 (J)	0.0015 (J)		
8/31/2016					0.001 (J)	0.0012 (J)
9/1/2016	0.015					
10/25/2016				0.0018 (J)		
10/26/2016	0.0106	<0.01	0.0014 (J)		<0.01	0.0012 (J)
1/3/2017		0.001 (J)				
1/4/2017				0.0021 (J)	<0.01	0.0012 (J)
1/5/2017			0.002 (J)			
1/6/2017	0.0098 (J)					
4/4/2017	0.0101			0.002 (J)		
4/5/2017						0.0013 (J)
4/6/2017		0.0013 (J)	0.0034 (J)		0.0007 (J)	
7/10/2017						0.0014 (J)
7/11/2017					0.0006 (J)	
7/12/2017	0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)		
10/3/2017		0.0012 (J)	0.0022 (J)	0.0014 (J)	0.0007 (J)	
10/4/2017	0.0097 (J)					0.0011 (J)
1/9/2018			0.0019 (J)			
1/10/2018		0.0016 (J)		0.0017 (J)		
1/11/2018	0.0109				0.0098 (J)	0.001 (J)
7/10/2018		0.0055 (J)	0.0023 (J)	0.0021 (J)		
7/11/2018	0.0055 (J)				<0.01	<0.01
1/16/2019	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)		
1/17/2019					<0.01	0.0028 (J)
3/25/2019	0.002 (J)					
3/26/2019		0.072	0.017 (J)	0.0018 (J)		
3/27/2019					<0.01	<0.01
8/27/2019	0.0027 (J)		0.0097 (J)	0.0062 (J)	0.00092 (J)	0.00085 (J)
8/28/2019		0.0071 (J)				
10/8/2019					0.00091 (J)	
10/9/2019	0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)		0.00081 (J)
4/7/2020	0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)	0.00094 (J)	0.00082 (J)
8/17/2020						0.001 (J)
8/18/2020					0.0015 (J)	
8/19/2020	0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)		
9/28/2020				0.0024 (J)		
9/29/2020					0.0011 (J)	0.00085 (J)
9/30/2020		0.0018 (J)	0.0045 (J)			
10/1/2020	0.002 (J)					
3/10/2021	0.003 (J)	0.001 (J)	0.006	0.0023 (J)	0.0013 (J)	0.00091 (J)
9/21/2021	0.0018 (J)	<0.01	0.0035 (J)		<0.01	<0.01
9/23/2021				0.0023 (J)		
2/2/2022	0.003 (J)		0.0033 (J)			
2/3/2022		0.0014 (J)		0.0019 (J)	0.0011 (J)	0.0018 (J)
8/30/2022	<0.01	<0.01	0.00356 (J)			<0.01

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.01	
9/1/2022				<0.01		
2/1/2023		0.00655 (J)	0.00365 (J)		<0.01	<0.01
2/2/2023	0.00502 (J)			<0.01		
Mean	0.006219	0.00807	0.005105	0.002568	0.005049	0.00362
Std. Dev.	0.004278	0.01486	0.004895	0.001376	0.004613	0.004021
Upper Lim.	0.00789	0.003984	0.006246	0.0024	0.01	0.0028
Lower Lim.	0.003572	0.001154	0.002384	0.0017	0.00092	0.00091

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.0012 (J)	<0.01	<0.01		<0.01
1/18/2016	<0.01				<0.01	
4/26/2016		<0.01		<0.01		
7/26/2016	<0.01					
7/27/2016		0.0008 (J)	0.0007 (J)			0.0008 (J)
7/28/2016				0.0006 (J)		
7/29/2016					0.0009 (J)	
8/31/2016	0.0011 (J)					<0.01
9/1/2016		0.0015 (J)	0.0011 (J)	0.0011 (J)	0.0011 (J)	
10/25/2016		<0.01	<0.01	<0.01		
10/26/2016	<0.01				<0.01	0.001 (J)
1/4/2017				<0.01		
1/5/2017	<0.01	0.001 (J)	<0.01		0.0012 (J)	<0.01
4/3/2017			0.0015 (J)			
4/4/2017		0.001 (J)				0.0008 (J)
4/5/2017				0.001 (J)	0.0015 (J)	
4/6/2017	0.0011 (J)					
7/11/2017		0.0008 (J)	0.0013 (J)			
7/12/2017	0.0007 (J)			0.0011 (J)		
7/13/2017					0.0012 (J)	0.0006 (J)
10/2/2017		0.0009 (J)	0.0013 (J)			
10/3/2017				0.0009 (J)		<0.01
10/4/2017	0.0008 (J)				0.0055 (J)	
1/9/2018		0.0006 (J)	0.0012 (J)			
1/10/2018	0.0007 (J)			0.0007 (J)		<0.01
1/11/2018					0.0009 (J)	
7/9/2018		<0.01				
7/10/2018			<0.01	<0.01		<0.01
7/11/2018	0.0019 (J)				<0.01	
1/16/2019	<0.01	<0.01			<0.01	
1/17/2019			<0.01	0.01 (J)		
1/21/2019						<0.01
3/26/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
7/30/2019						0.00065 (J)
8/27/2019	<0.01	0.001 (J)	0.0016 (J)			<0.01
8/28/2019				0.0011 (J)	0.0013 (J)	
10/8/2019	<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)		
10/9/2019					0.00081 (J)	0.00049 (J)
4/7/2020		0.00074 (J)	0.0014 (J)	<0.01		
4/8/2020	0.00058 (J)				0.00073 (J)	0.00069 (J)
8/17/2020	0.00077 (J)					
8/18/2020		0.00059 (J)	0.0018 (J)	0.0012 (J)	0.0011 (J)	<0.01
9/28/2020	0.00062 (J)					
9/29/2020		<0.01				<0.01
9/30/2020			0.0016 (J)	0.00098 (J)	0.00096 (J)	
3/11/2021					0.0009 (J)	
3/12/2021			0.0031 (J)			
3/15/2021	<0.01					0.0011 (J)
3/16/2021		<0.01		0.0012 (J)		
9/21/2021	<0.01					
9/22/2021		<0.01		0.0018 (J)	<0.01	<0.01
9/23/2021			0.0013 (J)			

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				<0.01	0.0014 (J)	
2/2/2022		<0.01				<0.01
2/3/2022	<0.01		0.0016 (J)			
8/30/2022		<0.01				
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022				<0.01		<0.01
2/1/2023	<0.01			<0.01	<0.01	
2/2/2023		<0.01	<0.01			<0.01
Mean	0.006285	0.005246	0.0046	0.005333	0.004523	0.006642
Std. Dev.	0.004577	0.004658	0.004199	0.004573	0.004342	0.004548
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0008	0.0008	0.0013	0.001	0.00096	0.0008

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
1/17/2016	<0.01	<0.01				
1/18/2016			<0.01	<0.01		
7/28/2016	0.0007 (J)	0.0005 (J)		0.0011 (J)		
7/29/2016			0.0007 (J)			
8/31/2016			<0.01	0.0024 (J)		
9/1/2016	<0.01	<0.01				
10/25/2016	<0.01	<0.01				
10/26/2016			<0.01			
10/27/2016				<0.01		
1/4/2017	<0.01	<0.01	<0.01			
1/6/2017				<0.01		
4/4/2017	0.0011 (J)	0.0008 (J)				
4/6/2017			0.0006 (J)	0.0019 (J)		
7/11/2017	0.0009 (J)		0.0005 (J)			
7/12/2017				0.0011 (J)		
7/13/2017		0.0006 (J)				
10/2/2017	0.0009 (J)					
10/3/2017		0.0005 (J)				
10/4/2017			0.0006 (J)	0.0011 (J)		
1/9/2018		0.0007 (J)				
1/10/2018	0.0008 (J)					
1/11/2018			<0.01	0.001 (J)		
7/9/2018	<0.01					
7/10/2018		<0.01				
7/11/2018			<0.01	<0.01		
1/17/2019		0.01				
1/18/2019			<0.01	<0.01		
1/21/2019	<0.01					
3/25/2019	<0.01					
3/26/2019		<0.01				
3/27/2019			<0.01	<0.01		
8/27/2019			0.00057 (J)			
8/28/2019	0.00089 (J)	0.00087 (J)		0.00089 (J)		
10/8/2019		0.00065 (J)				
10/9/2019	0.0011 (J)		0.00072 (J)	0.0009 (J)		
4/7/2020		<0.01	0.00049 (J)			
4/8/2020	0.001 (J)			0.0015 (J)		
8/18/2020	0.0011 (J)	0.0012 (J)	0.00056 (J)			
8/19/2020				0.0013 (J)		
9/30/2020	0.0013 (J)	0.00067 (J)	0.00064 (J)			
10/1/2020				0.0012 (J)		
3/10/2021			<0.01	0.0011 (J)		
3/11/2021					0.00069 (J)	0.0016 (J)
3/12/2021	0.0014 (J)					
3/16/2021		0.00075 (J)				
9/21/2021			<0.01			
9/22/2021	0.0013 (J)	<0.01		<0.01	<0.01	
9/23/2021						<0.01
2/1/2022	0.0036 (J)	<0.01			<0.01	
2/2/2022				0.0012 (J)		
2/3/2022			<0.01			<0.01
8/30/2022	<0.01	<0.01				

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
8/31/2022			<0.01			<0.01
9/1/2022				<0.01	<0.01	
2/1/2023	0.00503 (J)			<0.01		
2/2/2023		<0.01	<0.01		<0.01	<0.01
Mean	0.004596	0.005784	0.006154	0.00485	0.008138	0.00832
Std. Dev.	0.004293	0.004729	0.004732	0.004398	0.004164	0.003757
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.001	0.0007	0.0006	0.0011	0.00069	0.0016

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12	GWC-14
8/30/2016		<0.005	<0.005			
8/31/2016				<0.005	0.0018 (J)	
9/1/2016	0.0024 (J)					<0.001
10/25/2016						<0.001
10/26/2016	0.0011 (J)	<0.005	<0.005	<0.005	0.0016 (J)	
1/3/2017		<0.005				
1/4/2017				<0.005	0.0014 (J)	
1/5/2017			<0.005			<0.001
1/6/2017	0.001 (J)					
4/4/2017	0.001 (J)					<0.001
4/5/2017					0.0013 (J)	
4/6/2017		<0.005	<0.005	<0.005		
7/10/2017					0.0013 (J)	
7/11/2017				<0.005		0.0003 (J)
7/12/2017	0.0008 (J)	<0.005	<0.005			
10/2/2017						<0.001
10/3/2017		<0.005	<0.005	<0.005		
10/4/2017	0.001 (J)				0.0011 (J)	
1/9/2018			<0.005			<0.001
1/10/2018		0.0004 (J)				
1/11/2018	0.0008 (J)			0.0003 (J)	0.0011 (J)	
7/9/2018						<0.001
7/10/2018		0.002 (J)	<0.005			
7/11/2018	<0.005			<0.005	0.00096 (J)	
8/27/2019	0.0011 (J)		0.00038 (J)	<0.005	0.0009 (J)	<0.001
8/28/2019		0.0024 (J)				
10/8/2019				<0.005		<0.001
10/9/2019	0.0015 (J)	0.0037 (J)	<0.005		0.00094 (J)	
4/7/2020	0.0009 (J)	0.00053 (J)	<0.005	<0.005	0.00077 (J)	<0.001
8/17/2020					0.0006 (J)	
8/18/2020				0.0004 (J)		<0.001
8/19/2020	0.00072 (J)	<0.005	<0.005			
9/29/2020				0.00055 (J)	0.00057 (J)	<0.001
9/30/2020		0.00056 (J)	<0.005			
10/1/2020	0.0005 (J)					
3/10/2021	0.00069 (J)	0.0057	<0.005	0.00082 (J)	0.00071 (J)	
3/16/2021						<0.001
9/21/2021	<0.005	0.019	0.0049 (J)	<0.005	0.00065 (J)	
9/22/2021						<0.001
2/2/2022	0.0027 (J)		0.07			<0.001
2/3/2022		0.019		<0.005	0.00072 (J)	
8/30/2022	0.00198	0.00401	0.0476		0.000786 (J)	<0.001
8/31/2022				0.000646 (J)		
2/1/2023		0.00291	0.0228	0.00118	0.000753 (J)	
2/2/2023	0.00937					<0.001
Mean	0.001809	0.005289	0.0117	0.00355	0.0009977	0.0009611
Std. Dev.	0.00202	0.005284	0.0181	0.002117	0.0003568	0.000165
Upper Lim.	0.0025	0.0057	0.0228	0.005	0.001214	0.001
Lower Lim.	0.0008	0.002	0.0049	0.000646	0.0007818	0.0003

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-22	GWC-9
8/31/2016		<0.001	0.001 (J)	0.0021 (J)
9/1/2016	0.0046 (J)			
10/26/2016	0.0046 (J)	0.0011 (J)	0.0009 (J)	
10/27/2016				0.0017 (J)
1/4/2017			0.0007 (J)	
1/5/2017	0.0062 (J)	<0.001		
1/6/2017				0.0017 (J)
4/4/2017		<0.001		
4/5/2017	0.007 (J)			
4/6/2017			<0.001	0.0017 (J)
7/11/2017			<0.001	
7/12/2017				0.0016 (J)
7/13/2017	0.0077 (J)	0.0003 (J)		
10/3/2017		0.0003 (J)		
10/4/2017	0.0073 (J)		0.0007 (J)	0.0015 (J)
1/10/2018		<0.001		
1/11/2018	0.0061 (J)		<0.001	0.0017 (J)
7/10/2018		<0.001		
7/11/2018	0.0064 (J)		<0.001	0.0017 (J)
7/30/2019		0.00032 (J)		
8/27/2019		<0.001	0.00077 (J)	
8/28/2019	0.0023 (J)			0.00099 (J)
10/9/2019	0.0024 (J)	<0.001	<0.001	0.00099 (J)
4/7/2020			0.00037 (J)	
4/8/2020	0.0024 (J)	0.00036 (J)		0.001 (J)
8/18/2020	0.0025 (J)	<0.001	<0.001	
8/19/2020				0.0011 (J)
9/29/2020		<0.001		
9/30/2020	0.0018 (J)		<0.001	
10/1/2020				0.00099 (J)
3/10/2021			<0.001	0.00096 (J)
3/11/2021	0.0019 (J)			
3/15/2021		<0.001		
9/21/2021			<0.001	
9/22/2021	0.0028 (J)	<0.001		0.00082 (J)
2/1/2022	0.0036 (J)			
2/2/2022		<0.001		0.00096 (J)
2/3/2022			<0.001	
8/31/2022	0.00358		<0.001	
9/1/2022		<0.001		0.00093 (J)
2/1/2023	0.00265			0.00083 (J)
2/2/2023		<0.001	<0.001	
Mean	0.004213	0.0008621	0.0009133	0.001293
Std. Dev.	0.002052	0.0002887	0.0001723	0.0004063
Upper Lim.	0.005269	0.0011	0.001	0.0017
Lower Lim.	0.002871	0.00036	0.00077	0.00096

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/30/2016		1.81	2.19	2.36		
8/31/2016					2.2	2.61
9/1/2016	5.27					
10/25/2016				2.02		
10/26/2016	2.32	2.03	2.67		1.96	3.28
1/3/2017		1.85				
1/4/2017				2.1	1.88	3.77
1/5/2017			3.74			
1/6/2017	5.1					
4/4/2017	5			1.39 (U)		
4/5/2017						3.25
4/6/2017		2.66	2.36			
4/8/2017					0.893 (U)	
7/10/2017						1.55
7/11/2017					1.89	
7/12/2017	2.69	2.1	1.54	1.63		
10/3/2017		2	3.63	1.84	4.73	
10/4/2017	4.82					1.68
1/9/2018			2.07			
1/10/2018		2.55		2.11		
1/11/2018	4.48				7.49	2.94
7/10/2018		3.14	1.63	1.29		
7/11/2018	2.69				5.88	2.03
8/27/2019	2.97		4.63	2.41	5.09	2.09
8/28/2019		3.74				
10/8/2019					6.39	
10/9/2019	2.17	7.23	5.45	3.13		3.11
4/7/2020	2.44	3.57	6.25	1.97	7.87	2.18
8/17/2020						2.25
8/18/2020					6.76	
8/19/2020	3.1	2.49	4.53	1.91		
9/28/2020				1.29		
9/29/2020					8.3	0.845 (U)
9/30/2020		4.45	6.39			
10/1/2020	2.6					
3/10/2021	2.11	4.67	4.61	1.7	7.55	1.77
9/21/2021	2.45	3.1	5.07		4.35	1.24 (U)
9/23/2021				1.48		
2/2/2022	3.17		4.79			
2/3/2022		2.65		1	4.04	0.957
8/30/2022	5.57	3.36	3.2			3.37
8/31/2022					6.34	
9/1/2022				0.911 (U)		
2/1/2023		3.28	4.93		5.87	2.07
2/2/2023	5.79			3.54		
Mean	3.597	3.149	3.871	1.893	4.971	2.277
Std. Dev.	1.328	1.321	1.538	0.6801	2.363	0.867
Upper Lim.	5.1	3.797	4.802	2.305	6.401	2.802
Lower Lim.	2.44	2.368	2.94	1.482	3.541	1.753

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/31/2016	1.23					1.01
9/1/2016		1.28	2.45	1.99	5.19	
10/25/2016		1.54	1.04 (U)	1.98		
10/26/2016	0.641 (U)				4.25	0.725 (U)
1/4/2017				1.72		
1/5/2017	0.657 (U)	0.715 (U)	1.36		3.55	0.735 (U)
4/3/2017			0.697 (U)			
4/4/2017		0.699 (U)				0.87 (U)
4/5/2017				1.72	4.39	
4/6/2017	0.439 (U)					
7/11/2017		1.12	0.754 (U)			
7/12/2017	0.414 (U)			1.11		
7/13/2017					2.44	0.42 (U)
10/2/2017		0.855 (U)	1.52			
10/3/2017				2.13		0.995 (U)
10/4/2017	1.33				4.95	
1/9/2018		0.861 (U)	1.17			
1/10/2018	1.21			1.74		0.698 (U)
1/11/2018					3.53	
7/9/2018		0.693 (U)				
7/10/2018			1.26	1.97		1.01
7/11/2018	1.4 (U)				3.13	
8/27/2019	1.27	1.32	1.75			0.787 (U)
8/28/2019				2.04	2.01	
10/8/2019	1.62	1.41	1.52	1.89		
10/9/2019					2.91	0.22 (U)
4/7/2020		1.41	1.82	4.17		
4/8/2020	1.08 (U)				2.79	1.13 (U)
8/17/2020	1.42					
8/18/2020		0.731 (U)	1.84	4.24	3.11	1.09 (U)
9/28/2020	1.28					
9/29/2020		0.331 (U)				1 (U)
9/30/2020			2.14	2.47	3.09	
3/11/2021					2.77	
3/12/2021			0.607 (U)			
3/15/2021	0.769 (U)					0.804 (U)
3/16/2021		0.0831 (U)		2.15		
9/21/2021	2.09					
9/22/2021		1.94 (U)		3.06	2.36	0.769 (U)
9/23/2021			1.64			
2/1/2022				2.73	2.51	
2/2/2022		0.881 (U)				0.854 (U)
2/3/2022	1.18		0.58 (U)			
8/30/2022		2.62				
8/31/2022	1.9		2.88		2.72	
9/1/2022				1.64 (U)		2.09
2/1/2023	2.85			3.17	2.83	
2/2/2023		1.31 (U)	3.14			1.11 (U)
Mean	1.266	1.1	1.565	2.329	3.252	0.9065
Std. Dev.	0.6052	0.5905	0.7426	0.8481	0.8987	0.3777
Upper Lim.	1.632	1.457	2.014	2.768	3.795	1.09
Lower Lim.	0.8994	0.7427	1.116	1.81	2.708	0.725

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-25D
8/31/2016			5.96	3.3		
9/1/2016	2.21	1.05				
10/25/2016	1.51 (U)	1.2				
10/26/2016			7.42			
10/27/2016				2.7		
1/4/2017	2.56	2.11	6.07			
1/6/2017				4.45		
4/4/2017	1.77	2.02				
4/6/2017			3	3.1		
7/11/2017	2.76		4.2			
7/12/2017				2.73		
7/13/2017		0.576 (U)				
10/2/2017	4.15					
10/3/2017		0.86				
10/4/2017			7.16	8.16		
1/9/2018		1.43				
1/10/2018	1.96					
1/11/2018			3.57	2.31		
7/9/2018	1.11					
7/10/2018		1.63				
7/11/2018			7.57	3.31		
8/27/2019			7.04			
8/28/2019	1.13 (U)	1.4 (U)		1.91		
10/8/2019		1.88				
10/9/2019	2.28		3.68	3.09		
4/7/2020		1.8	7.66			
4/8/2020	4.19			1.92		
8/18/2020	6.86	3.27	7.65			
8/19/2020				2.34		
9/30/2020	5.62	3.83	2.79			
10/1/2020				3.3		
3/10/2021			2.53	2.08		
3/11/2021					1.55	0.353 (U)
3/12/2021	5.17					
3/16/2021		2.88				
9/21/2021			1.25 (U)			
9/22/2021	6.84	0.959 (U)		2.08	1.4	
9/23/2021						1.15
2/1/2022	5.11	2.51				
2/2/2022				0.967 (U)		
2/3/2022			1.4		1.21	0.278 (U)
8/30/2022	4.95	2.56				
8/31/2022			3.07		1.79	0.645 (U)
9/1/2022				2.35		
2/1/2023	5.77			4.17	2.44	
2/2/2023		3.73	4.13			2.98
Mean	3.664	1.983	4.786	3.015	1.678	1.081
Std. Dev.	1.959	0.9744	2.269	1.535	0.4759	1.115
Upper Lim.	4.849	2.573	6.026	3.671	2.475	3.093
Lower Lim.	2.479	1.394	3.195	2.12	0.8806	0.01701

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
8/30/2016		0.04 (J)	0.09 (J)	0.22 (J)		
8/31/2016					0.7	<0.1
9/1/2016	<0.5					
10/25/2016				<0.1		
10/26/2016	0.05 (J)	0.05 (J)	0.24 (J)		0.91	0.55
1/3/2017		0.08 (J)				
1/4/2017				0.18 (J)	0.51	
1/5/2017			0.11 (J)			0.09 (J)
1/6/2017	0.08 (J)					
4/4/2017	<0.5			<0.1		
4/5/2017					0.71	
4/6/2017		0.006 (J)	0.3			<0.1
7/10/2017					0.88	
7/12/2017	0.38	0.05 (J)	0.15 (J)	0.04 (J)		<0.1
10/3/2017		0.11 (J)	0.11 (J)	<0.1		
10/4/2017	<0.5				0.37	<0.1
1/9/2018			<0.1			
1/10/2018		<0.1		<0.1		<0.1
1/11/2018	<0.5				1.4	
7/10/2018		0.2 (J)	<0.1	<0.1		
7/11/2018	<0.5				0.62	<0.1
1/16/2019	1.2	<0.1	0.053 (J)	<0.1		<0.1
1/17/2019					1.2	
3/25/2019	0.064 (J)					
3/26/2019		<0.1	0.046 (J)	0.051 (J)		0.052 (J)
3/27/2019					0.036 (J)	
8/27/2019	0.031 (J)		0.13 (J)	<0.1	0.3	<0.1
8/28/2019		0.097 (J)				
10/8/2019						<0.1
10/9/2019	<0.5	<0.1	<0.1	<0.1	<0.3	
4/7/2020	<0.5	<0.1	<0.1	<0.1	0.27 (J)	
4/8/2020						<0.1
8/17/2020					0.19	<0.1
8/19/2020	0.17	<0.1	<0.1	<0.1		
9/28/2020				<0.1		<0.1
9/29/2020					0.16	
9/30/2020		<0.1	<0.1			
10/1/2020	<0.5					
3/10/2021	<0.5	<0.1	<0.1	<0.1	0.14	
3/15/2021						<0.1
9/21/2021	<0.5	<0.1	<0.1		0.31	<0.1
9/23/2021				<0.1		
2/2/2022	<0.5		<0.1			
2/3/2022		0.081 (J)		<0.1	0.36	<0.1
8/30/2022	<0.5	0.0428 (J)	<0.1		0.273	
8/31/2022						0.051 (J)
9/1/2022				<0.1		
2/1/2023		0.0546 (J)	<0.1		0.231	0.0423 (J)
2/2/2023	<0.5			<0.1		
Mean	0.4238	0.08557	0.1165	0.1046	0.486	0.1143
Std. Dev.	0.2602	0.03939	0.05759	0.03727	0.3753	0.1043
Upper Lim.	0.5	0.1	0.11	0.18	0.6991	0.55

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
Lower Lim.	0.17	0.05	0.09	0.051	0.2729	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2016					0.07 (J)	
9/1/2016	0.25 (J)	<0.1	0.55	0.68		<0.1
10/25/2016	0.43	0.5	0.36			<0.1
10/26/2016				0.68	0.62	
1/4/2017			0.1 (J)			0.04 (J)
1/5/2017	0.21 (J)	0.22 (J)		0.73	0.17 (J)	
4/3/2017		<0.1				
4/4/2017	0.45				0.08 (J)	0.02 (J)
4/5/2017			0.2 (J)	1.6		
7/11/2017	0.41	0.06 (J)				0.14 (J)
7/12/2017			0.04 (J)			
7/13/2017				1.7	0.06 (J)	
10/2/2017	<0.1	<0.1				<0.1
10/3/2017			0.86		0.06 (J)	
10/4/2017				1.8		
1/9/2018	<0.1	<0.1				
1/10/2018			<0.1		<0.1	<0.1
1/11/2018				1.5		
7/9/2018	<0.1					<0.1
7/10/2018		0.15 (J)	<0.1		<0.1	
7/11/2018				1.8		
1/16/2019	<0.1			1.4		
1/17/2019		<0.1	<0.1			
1/21/2019					<0.1	<0.1
3/25/2019						0.043 (J)
3/26/2019	0.13 (J)	0.13 (J)	0.11 (J)	0.89		
7/30/2019					0.083 (J)	
8/27/2019	<0.1	<0.1			<0.1	
8/28/2019			<0.1	0.61		<0.1
10/8/2019	<0.1	<0.1	<0.1			
10/9/2019				<0.3	<0.1	<0.1
4/7/2020	<0.1	<0.1	<0.1			
4/8/2020				0.55	<0.1	<0.1
8/18/2020	<0.1	<0.1	<0.1	0.51	<0.1	<0.1
9/29/2020	<0.1				<0.1	
9/30/2020		<0.1	<0.1	0.15		<0.1
3/11/2021				0.42		
3/12/2021		<0.1				<0.1
3/15/2021					<0.1	
3/16/2021	<0.1		<0.1			
9/22/2021	<0.1		<0.1	0.79	<0.1	<0.1
9/23/2021		<0.1				
2/1/2022			<0.1	0.68		<0.1
2/2/2022	<0.1				<0.1	
2/3/2022		<0.1				
8/30/2022	<0.1					<0.1
8/31/2022		<0.1		0.442		
9/1/2022			0.0374 (J)		<0.1	
2/1/2023			0.0702 (J)	0.604		<0.1
2/2/2023	<0.1	<0.1			<0.1	
Mean	0.164	0.128	0.1714	0.8843	0.1222	0.09215
Std. Dev.	0.1216	0.09283	0.2006	0.5406	0.1193	0.02677

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
Upper Lim.	0.21	0.13	0.11	1.191	0.17	0.14
Lower Lim.	0.1	0.06	0.1	0.5773	0.083	0.043

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-23D	MW-25D
8/31/2016		0.04 (J)	0.55		
9/1/2016	<0.1				
10/25/2016	<0.1				
10/26/2016		0.12 (J)			
10/27/2016			0.26 (J)		
1/4/2017	<0.1	0.06 (J)			
1/6/2017			0.25 (J)		
4/4/2017	<0.1				
4/6/2017		<0.1	0.16 (J)		
7/11/2017		0.03 (J)			
7/12/2017			0.2 (J)		
7/13/2017	<0.1				
10/3/2017	<0.1				
10/4/2017		0.12 (J)	0.22 (J)		
1/9/2018	<0.1				
1/11/2018		<0.1	0.98		
7/10/2018	<0.1				
7/11/2018		<0.1	0.14 (J)		
1/17/2019	<0.1				
1/18/2019		<0.1	0.24 (J)		
3/26/2019	0.071 (J)				
3/27/2019		<0.1	0.13 (J)		
8/27/2019		0.1			
8/28/2019	<0.1		0.088 (J)		
10/8/2019	<0.1				
10/9/2019		<0.1	0.068 (J)		
4/7/2020	<0.1	<0.1			
4/8/2020			0.058 (J)		
8/18/2020	<0.1	<0.1			
8/19/2020			0.092 (J)		
9/30/2020	<0.1	<0.1			
10/1/2020			<0.1		
1/20/2021					0.11
1/21/2021				<0.1	
3/10/2021		<0.1	0.066 (J)		
3/11/2021				<0.1	0.12
3/16/2021	<0.1				
9/21/2021		<0.1			
9/22/2021	<0.1		0.13	<0.1	
9/23/2021					0.096 (J)
2/1/2022	<0.1				
2/2/2022			<0.1		
2/3/2022		<0.1		<0.1	0.077 (J)
8/30/2022	<0.1				
8/31/2022		<0.1		0.0791 (J)	0.187
9/1/2022			0.0783 (J)		
2/1/2023			0.0994 (J)	0.0586 (J)	
2/2/2023	<0.1	<0.1			0.152
Mean	0.09855	0.0935	0.1955	0.08962	0.1237
Std. Dev.	0.006485	0.023	0.218	0.01734	0.03989
Upper Lim.	0.1	0.12	0.2151	0.1	0.1785
Lower Lim.	0.071	0.1	0.08774	0.0586	0.06886

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.002		
1/18/2016	0.0055 (J)	<0.002	<0.002			0.0034 (J)
1/19/2016					<0.002	
7/26/2016					0.0001 (J)	
7/27/2016		<0.002		<0.002		0.0001 (J)
7/28/2016			<0.002			
7/29/2016	0.003 (J)					
8/30/2016		<0.002	<0.002	<0.002		
8/31/2016					0.0002 (J)	0.0001 (J)
9/1/2016	0.0166 (O)					
10/25/2016				<0.002		
10/26/2016	0.0057	0.0002 (J)	<0.002		0.0001 (J)	0.0001 (J)
1/3/2017		0.0001 (J)				
1/4/2017				<0.002	0.0002 (J)	<0.002
1/5/2017			0.0003 (J)			
1/6/2017	0.0053					
4/4/2017	0.0092			<0.002		
4/5/2017						0.0003 (J)
4/6/2017		0.0003 (J)	0.0002 (J)		0.0003 (J)	
7/10/2017						0.0003 (J)
7/11/2017					0.0002 (J)	
7/12/2017	0.006	0.0002 (J)	0.0002 (J)	<0.002		
10/3/2017		0.0002 (J)	0.0001 (J)	<0.002	0.0003 (J)	
10/4/2017	0.0057					0.0001 (J)
1/9/2018			0.0003 (J)			
1/10/2018		0.0003 (J)		0.0001 (J)		
1/11/2018	0.0085				0.0003 (J)	0.0002 (J)
7/10/2018		<0.002	<0.002	<0.002		
7/11/2018	0.0029 (J)				<0.002	<0.002
1/16/2019	<0.002	<0.002	<0.002	<0.002		
1/17/2019					0.00028 (J)	<0.002
3/25/2019	<0.002					
3/26/2019		<0.002	<0.002	<0.002		
3/27/2019					0.00029 (J)	<0.002
8/27/2019	0.001 (J)		0.0011 (J)	<0.002	0.00021 (J)	<0.002
8/28/2019		0.0011 (J)				
10/8/2019					0.00028 (J)	
10/9/2019	0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002		6.6E-05 (J)
4/7/2020	0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)	0.00036 (J)	8.1E-05 (J)
8/17/2020						4.9E-05 (J)
8/18/2020					0.00035 (J)	
8/19/2020	0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002		
9/28/2020				4.3E-05 (J)		
9/29/2020					0.00032 (J)	3.7E-05 (J)
9/30/2020		0.0012 (J)	8E-05 (J)			
10/1/2020	0.00026 (J)					
3/10/2021	0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)	0.00042 (J)	6.8E-05 (J)
9/21/2021	<0.002	<0.002	<0.002		<0.002	<0.002
9/23/2021				<0.002		
2/2/2022	<0.002		<0.002			
2/3/2022		<0.002		<0.002	<0.002	<0.002
8/30/2022	<0.002	<0.002	<0.002			<0.002

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.002	
9/1/2022				<0.002		
2/1/2023		<0.002	<0.002		<0.002	<0.002
2/2/2023	<0.002			<0.002		
Mean	0.00319	0.001256	0.001158	0.001653	0.0007368	0.001041
Std. Dev.	0.002703	0.0008858	0.0008869	0.0007538	0.0007953	0.001069
Upper Lim.	0.003335	0.002	0.002	0.002	0.00042	0.002
Lower Lim.	0.0007709	0.0002	0.0002	0.00012	0.00021	8.1E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		<0.002	<0.002	<0.002		<0.002
1/18/2016	<0.002				<0.002	
4/26/2016		<0.002		<0.002		
7/26/2016	<0.002					
7/27/2016		<0.002	<0.002			<0.002
7/28/2016				<0.002		
7/29/2016					<0.002	
8/31/2016	<0.002					<0.002
9/1/2016		<0.002	<0.002	<0.002	<0.002	
10/25/2016		<0.002	<0.002	0.0002 (J)		
10/26/2016	<0.002				<0.002	<0.002
1/4/2017				0.0001 (J)		
1/5/2017	0.0002 (J)	<0.002	<0.002		<0.002	<0.002
4/3/2017			0.0003 (J)			
4/4/2017		0.0001 (J)				0.0002 (J)
4/5/2017				0.0002 (J)	0.0009 (J)	
4/6/2017	0.0005 (J)					
7/11/2017		8E-05 (J)	0.0001 (J)			
7/12/2017	0.0005 (J)			0.0001 (J)		
7/13/2017					<0.002	0.0003 (J)
10/2/2017		0.0001 (J)	0.0002 (J)			
10/3/2017				0.0001 (J)		<0.002
10/4/2017	0.0007 (J)				0.0001 (J)	
1/9/2018		<0.002	0.0002 (J)			
1/10/2018	0.0009 (J)			0.0002 (J)		8E-05 (J)
1/11/2018					0.0001 (J)	
7/9/2018		<0.002				
7/10/2018			<0.002	<0.002		<0.002
7/11/2018	0.0015 (J)				<0.002	
1/16/2019	0.00061 (J)	<0.002			<0.002	
1/17/2019			<0.002	<0.002		
1/21/2019						<0.002
3/26/2019	<0.002	<0.002	<0.002	<0.002	<0.002	
7/30/2019						0.0002 (J)
8/27/2019	0.0001 (J)	0.00051 (J)	0.00033 (J)			<0.002
8/28/2019				0.0001 (J)	<0.002	
10/8/2019	0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)		
10/9/2019					0.00015 (J)	6.4E-05 (J)
4/7/2020		<0.002	8.6E-05 (J)	0.00023 (J)		
4/8/2020	0.00017 (J)				8.4E-05 (J)	<0.002
8/17/2020	7.6E-05 (J)					
8/18/2020		<0.002	9E-05 (J)	0.00017 (J)	0.00014 (J)	<0.002
9/28/2020	6.4E-05 (J)					
9/29/2020		<0.002				<0.002
9/30/2020			4.7E-05 (J)	9.1E-05 (J)	6E-05 (J)	
3/11/2021					0.00019 (J)	
3/12/2021			5.3E-05 (J)			
3/15/2021	0.00013 (J)					4.1E-05 (J)
3/16/2021		<0.002		7.3E-05 (J)		
9/21/2021	<0.002					
9/22/2021		<0.002		<0.002	<0.002	<0.002
9/23/2021			<0.002			

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				<0.002	<0.002	
2/2/2022		<0.002				<0.002
2/3/2022	<0.002		<0.002			
8/30/2022		<0.002				
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022				<0.002		<0.002
2/1/2023	<0.002			<0.002	<0.002	
2/2/2023		<0.002	<0.002			<0.002
Mean	0.001072	0.001687	0.00116	0.001029	0.001351	0.001495
Std. Dev.	0.0008528	0.0007028	0.0009438	0.0009515	0.0008933	0.0008459
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.00017	0.00051	0.00012	0.0001	0.00015	0.0003

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	<0.002	<0.002				
1/18/2016			<0.002	<0.002		
7/28/2016	<0.002	<0.002		<0.002		
7/29/2016			0.0004 (J)			
8/31/2016			0.0003 (J)	0.0007 (J)		
9/1/2016	<0.002	<0.002				
10/25/2016	0.0001 (J)	<0.002				
10/26/2016			0.0003 (J)			
10/27/2016				<0.002		
1/4/2017	<0.002	<0.002	0.0003 (J)			
1/6/2017				<0.002		
4/4/2017	7E-05 (J)	9E-05 (J)				
4/6/2017			0.0003 (J)	0.0001 (J)		
7/11/2017	<0.002		0.0002 (J)			
7/12/2017				<0.002		
7/13/2017		7E-05 (J)				
10/2/2017	<0.002					
10/3/2017		0.0001 (J)				
10/4/2017			0.0008 (J)	9E-05 (J)		
1/9/2018		9E-05 (J)				
1/10/2018	0.0002 (J)					
1/11/2018			0.0009 (J)	0.0002 (J)		
7/9/2018	<0.002					
7/10/2018		<0.002				
7/11/2018			0.001 (J)	<0.002		
1/17/2019		<0.002				
1/18/2019			0.0012 (J)	<0.002		
1/21/2019	<0.002					
3/25/2019	<0.002					
3/26/2019		<0.002				
3/27/2019			0.00047 (J)	<0.002		
8/27/2019			0.003 (J)			
8/28/2019	6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)		
10/8/2019		0.00016 (J)				
10/9/2019	0.00018 (J)		0.00032 (J)	<0.002		
4/7/2020		<0.002	0.00067 (J)			
4/8/2020	<0.002			0.00021 (J)		
8/18/2020	<0.002	0.00027 (J)	0.00072 (J)			
8/19/2020				9.6E-05 (J)		
9/30/2020	<0.002	5.4E-05 (J)	0.00023 (J)			
10/1/2020				3.8E-05 (J)		
3/10/2021			0.00016 (J)	0.00012 (J)		
3/11/2021					5.7E-05 (J)	9.4E-05 (J)
3/12/2021	<0.002					
3/16/2021		<0.002				
9/21/2021			<0.002			
9/22/2021	<0.002	<0.002		<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002				<0.002
2/2/2022				<0.002		
2/3/2022			<0.002		<0.002	
8/30/2022	<0.002	<0.002				
8/31/2022			<0.002		<0.002	

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
9/1/2022				<0.002		<0.002
2/1/2023	<0.002			<0.002	<0.002	
2/2/2023		<0.002	<0.002			<0.002
Mean	0.001573	0.001319	0.0009668	0.001255	0.001611	0.001619
Std. Dev.	0.0008056	0.0009233	0.0008239	0.0009247	0.0008689	0.0008524
Upper Lim.	0.002	0.002	0.0007822	0.002	0.002	0.002
Lower Lim.	0.0002	0.00016	0.000301	0.00012	5.7E-05	9.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	9.5E-05 (J)
9/23/2021	<0.002
2/3/2022	<0.002
8/31/2022	<0.002
2/2/2023	<0.002
Mean	0.001619
Std. Dev.	0.0008519
Upper Lim.	0.002
Lower Lim.	9.5E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-12	GWC-13	GWC-17	GWC-9
8/30/2016		0.0042 (J)				
8/31/2016			<0.03	<0.03		<0.05 (O)
9/1/2016	0.0092 (J)				0.0066 (J)	
10/26/2016	0.0046 (J)	<0.03	<0.03	<0.03	0.0065 (J)	
10/27/2016						0.0023 (J)
1/3/2017		0.0024 (J)				
1/4/2017			<0.03			
1/5/2017				<0.03	0.0062 (J)	
1/6/2017	0.0042 (J)					0.0021 (J)
4/4/2017	0.0056 (J)					
4/5/2017			0.0012 (J)		0.007 (J)	
4/6/2017		0.0051 (J)		<0.03		0.0021 (J)
7/10/2017			<0.03			
7/12/2017	0.0035 (J)	0.0031 (J)		<0.03		0.0017 (J)
7/13/2017					0.0069 (J)	
10/3/2017		0.0027 (J)				
10/4/2017	0.0041 (J)		<0.03	<0.03	0.0082 (J)	0.0021 (J)
1/10/2018		0.0041 (J)		<0.03		
1/11/2018	0.0052 (J)		<0.03		0.0061 (J)	0.0022 (J)
7/10/2018		0.005 (J)				
7/11/2018	0.0039 (J)		0.00098 (J)	<0.03	0.0075 (J)	0.0019 (J)
8/27/2019	0.013 (J)		0.00094 (J)	<0.03		
8/28/2019		<0.03			0.0041 (J)	0.0018 (J)
10/8/2019				<0.03		
10/9/2019	0.013 (J)	<0.03	0.0011 (J)		0.0046 (J)	0.0018 (J)
4/7/2020	0.014 (J)	<0.03	0.00094 (J)			
4/8/2020				<0.03	0.0051 (J)	0.0018 (J)
8/17/2020			0.00091 (J)	<0.03		
8/18/2020					0.0065 (J)	
8/19/2020	0.014 (J)	<0.03				0.0019 (J)
9/28/2020				<0.03		
9/29/2020			0.00086 (J)			
9/30/2020		<0.03			0.0041 (J)	
10/1/2020	0.013 (J)					0.0019 (J)
3/10/2021	0.012 (J)	<0.03	0.00095 (J)			0.0018 (J)
3/11/2021					0.0036 (J)	
3/15/2021				<0.03		
9/21/2021	0.016 (J)	<0.03	0.00091 (J)	0.00087 (J)		
9/22/2021					0.005 (J)	0.0015 (J)
2/1/2022					0.0061 (J)	
2/2/2022	0.015 (J)					0.0017 (J)
2/3/2022		<0.03	0.001 (J)	0.00077 (J)		
8/30/2022	0.0175	<0.03	<0.03			
8/31/2022				<0.03	0.00688 (J)	
9/1/2022						<0.03
2/1/2023		<0.03	<0.03	<0.03	0.00532 (J)	<0.03
2/2/2023	0.0184					
Mean	0.01034	0.01981	0.01388	0.02676	0.005906	0.003447
Std. Dev.	0.005251	0.01316	0.01484	0.009436	0.001275	0.004353
Upper Lim.	0.015	0.03	0.03	0.03	0.006677	0.0022
Lower Lim.	0.0042	0.0041	0.00094	0.00087	0.005134	0.0017

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/30/2016		<0.0002	<0.0002	4E-05 (J)		
8/31/2016					<0.0002	<0.0002
9/1/2016	<0.0002					
10/25/2016				<0.0002		
10/26/2016	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
1/3/2017		<0.0002				
1/4/2017				<0.0002	<0.0002	<0.0002
1/5/2017			<0.0002			
1/6/2017	<0.0002					
4/4/2017	<0.0002			<0.0002		
4/5/2017						<0.0002
4/6/2017		<0.0002	<0.0002		<0.0002	
7/10/2017						<0.0002
7/11/2017					<0.0002	
7/12/2017	<0.0002	<0.0002	<0.0002	<0.0002		
10/3/2017		<0.0002	<0.0002	<0.0002	<0.0002	
10/4/2017	<0.0002					<0.0002
1/9/2018			<0.0002			
1/10/2018		<0.0002		<0.0002		
1/11/2018	<0.0002				<0.0002	<0.0002
7/10/2018		<0.0002	<0.0002	<0.0002		
7/11/2018	<0.0002				<0.0002	<0.0002
1/16/2019	4.9E-05 (J)	<0.0002	4.3E-05 (J)	<0.0002		
1/17/2019					<0.0002	<0.0002
8/27/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/28/2019		<0.0002				
10/9/2019		<0.0002				
8/17/2020						<0.0002
8/18/2020					<0.0002	
8/19/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/21/2021	0.0001 (J)	0.0001 (J)	0.0001 (J)		0.0001 (J)	0.0001 (J)
9/23/2021				0.0001 (J)		
2/2/2022	<0.0002		<0.0002			
2/3/2022		<0.0002		<0.0002	<0.0002	<0.0002
8/30/2022	<0.0002	8.7E-05 (J)	<0.0002			<0.0002
8/31/2022					<0.0002	
9/1/2022				<0.0002		
2/1/2023		<0.0002	<0.0002		<0.0002	<0.0002
2/2/2023	<0.0002			<0.0002		
Mean	0.0001833	0.0001867	0.0001829	0.0001827	0.0001933	0.0001933
Std. Dev.	4.52E-05	3.645E-05	4.648E-05	4.713E-05	2.582E-05	2.582E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/31/2016	<0.0002					<0.0002
9/1/2016		<0.0002	<0.0002	<0.0002	<0.0002	
10/25/2016		<0.0002	<0.0002	<0.0002		
10/26/2016	<0.0002				<0.0002	<0.0002
1/4/2017				<0.0002		
1/5/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
4/3/2017			<0.0002			
4/4/2017		<0.0002				<0.0002
4/5/2017				<0.0002	<0.0002	
4/6/2017	0.00013 (J)					
7/11/2017		<0.0002	<0.0002			
7/12/2017	<0.0002			<0.0002		
7/13/2017					<0.0002	<0.0002
10/2/2017		<0.0002	<0.0002			
10/3/2017				<0.0002		<0.0002
10/4/2017	<0.0002				<0.0002	
1/9/2018		<0.0002	<0.0002			
1/10/2018	<0.0002			<0.0002		<0.0002
1/11/2018					<0.0002	
7/9/2018		<0.0002				
7/10/2018			<0.0002	<0.0002		<0.0002
7/11/2018	<0.0002				<0.0002	
1/16/2019	<0.0002	<0.0002			<0.0002	
1/17/2019			<0.0002	<0.0002		
1/21/2019						<0.0002
7/30/2019						<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002			<0.0002
8/28/2019				<0.0002	<0.0002	
8/17/2020	<0.0002					
8/18/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)					
9/22/2021		0.00011 (J)		0.0001 (J)	0.00011 (J)	0.0001 (J)
9/23/2021			0.0001 (J)			
2/1/2022				<0.0002	<0.0002	
2/2/2022		<0.0002				<0.0002
2/3/2022	<0.0002		<0.0002			
8/30/2022		<0.0002				
8/31/2022	<0.0002		<0.0002		<0.0002	
9/1/2022				<0.0002		<0.0002
2/1/2023	<0.0002			<0.0002	<0.0002	
2/2/2023		<0.0002	<0.0002			<0.0002
Mean	0.0001887	0.000194	0.0001933	0.0001933	0.000194	0.0001937
Std. Dev.	3.044E-05	2.324E-05	2.582E-05	2.582E-05	2.324E-05	2.5E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.0001	0.0001	0.00011	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
8/31/2016			<0.0002	<0.0002		
9/1/2016	<0.0002	<0.0002				
10/25/2016	<0.0002	<0.0002				
10/26/2016			<0.0002			
10/27/2016				<0.0002		
1/4/2017	<0.0002	<0.0002	<0.0002			
1/6/2017				<0.0002		
4/4/2017	<0.0002	<0.0002				
4/6/2017			<0.0002	<0.0002		
7/11/2017	<0.0002		<0.0002			
7/12/2017				<0.0002		
7/13/2017		<0.0002				
10/2/2017	<0.0002					
10/3/2017		<0.0002				
10/4/2017			<0.0002	5E-05 (J)		
1/9/2018		<0.0002				
1/10/2018	<0.0002					
1/11/2018			<0.0002	<0.0002		
7/9/2018	<0.0002					
7/10/2018		<0.0002				
7/11/2018			<0.0002	<0.0002		
1/17/2019		<0.0002				
1/18/2019			<0.0002	<0.0002		
1/21/2019	<0.0002					
8/27/2019			<0.0002			
8/28/2019	<0.0002	<0.0002		<0.0002		
8/18/2020	<0.0002	<0.0002	<0.0002			
8/19/2020				<0.0002		
9/21/2021			0.0001 (J)			
9/22/2021	0.00011 (J)	0.00011 (J)		0.00011 (J)	0.00011 (J)	0.0001 (J)
2/1/2022	<0.0002	<0.0002				<0.0002
2/2/2022				<0.0002		
2/3/2022			<0.0002		<0.0002	
8/30/2022	<0.0002	<0.0002				
8/31/2022			<0.0002		<0.0002	
9/1/2022				<0.0002		<0.0002
2/1/2023	<0.0002			<0.0002	<0.0002	
2/2/2023		<0.0002	<0.0002			<0.0002
Mean	0.000194	0.000194	0.0001933	0.000184	0.0001775	0.000175
Std. Dev.	2.324E-05	2.324E-05	2.582E-05	4.372E-05	4.5E-05	5E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00011	0.0001	0.00011	0.00011	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
9/23/2021	0.0001 (J)
2/3/2022	<0.0002
8/31/2022	<0.0002
2/2/2023	<0.0002
Mean	0.000175
Std. Dev.	5E-05
Upper Lim.	0.0002
Lower Lim.	0.0001

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/30/2016		<0.001	<0.01	0.175		
8/31/2016					<0.01	<0.001
9/1/2016	0.035					
10/25/2016				0.242		
10/26/2016	0.0267	<0.001	<0.01		<0.01	<0.001
1/3/2017		<0.001				
1/4/2017				0.167	<0.01	<0.001
1/5/2017			<0.01			
1/6/2017	0.0278					
4/4/2017	0.0265			0.172		
4/5/2017						<0.001
4/6/2017		<0.001	<0.01		<0.01	
7/10/2017						<0.001
7/11/2017					<0.01	
7/12/2017	0.0209	<0.001	<0.01	0.182		
10/3/2017		<0.001	<0.01	0.162	<0.01	
10/4/2017	0.0181					<0.001
1/9/2018			<0.01			
1/10/2018		<0.001		0.117		
1/11/2018	0.0237				0.0018 (J)	<0.001
7/10/2018		<0.001	<0.01	0.11		
7/11/2018	0.024				<0.01	<0.001
8/27/2019	0.1		0.0026 (J)	0.06	<0.01	<0.001
8/28/2019		0.0012 (J)				
10/8/2019					<0.01	
10/9/2019	0.1	<0.001	<0.01	0.06		<0.001
4/7/2020	0.13	<0.001	<0.01	0.014	<0.01	<0.001
8/17/2020						<0.001
8/18/2020					0.00077 (J)	
8/19/2020	0.16	<0.001	0.001 (J)	0.061		
9/28/2020				0.059		
9/29/2020					<0.01	<0.001
9/30/2020		<0.001	0.00097 (J)			
10/1/2020	0.15					
3/10/2021	0.12	<0.001	0.0013 (J)	0.057	<0.01	<0.001
9/21/2021	0.12	<0.001	<0.01		<0.01	<0.001
9/23/2021				0.06		
2/2/2022	0.11		0.00085 (J)			
2/3/2022		<0.001		0.038	<0.01	<0.001
8/30/2022	0.154	<0.001	0.000649 (J)			0.000205 (J)
8/31/2022					0.000512 (J)	
9/1/2022				0.0343		
2/1/2023		0.00069 (J)	0.000553 (J)		0.000613 (J)	<0.001
2/2/2023	0.199			0.0433		
Mean	0.08587	0.0009939	0.006551	0.1008	0.007983	0.0009558
Std. Dev.	0.06029	8.925E-05	0.004468	0.06643	0.003891	0.0001874
Upper Lim.	0.15	0.0012	0.01	0.1327	0.01	0.001
Lower Lim.	0.024	0.00069	0.00097	0.05591	0.0018	0.000205

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
8/31/2016	<0.001					
9/1/2016		0.0027 (J)	0.132	0.08	<0.01	0.296
10/25/2016		0.0028 (J)	0.117	0.08		0.395
10/26/2016	<0.001				<0.01	
1/4/2017				0.0786		0.229
1/5/2017	<0.001	0.0022 (J)	0.109		<0.01	
4/3/2017			0.0994			
4/4/2017		0.0022 (J)				0.147
4/5/2017				0.113	<0.01	
4/6/2017	<0.001					
7/11/2017		0.0024 (J)	0.0938			0.136
7/12/2017	<0.001			0.178		
7/13/2017					<0.01	
10/2/2017		0.0025 (J)	0.103			0.13
10/3/2017				0.201		
10/4/2017	<0.001				<0.01	
1/9/2018		0.0038 (J)	0.106			
1/10/2018	<0.001			0.161		0.229
1/11/2018					<0.01	
7/9/2018		0.01				0.13
7/10/2018			0.088	0.14		
7/11/2018	<0.001				<0.01	
8/27/2019	<0.001	0.028	0.095			
8/28/2019				0.22	0.004 (J)	0.11
10/8/2019	<0.001	0.034	0.091	0.2		
10/9/2019					0.0036 (J)	0.071
4/7/2020		0.014	0.07	0.25		
4/8/2020	0.0056 (J)				0.0024 (J)	0.06
8/17/2020	<0.001					
8/18/2020		0.017	0.12	0.15	0.00092 (J)	0.097
9/28/2020	<0.001					
9/29/2020		0.0089 (J)				
9/30/2020			0.11	0.15	0.0041 (J)	0.33
3/11/2021					0.0038 (J)	
3/12/2021			0.098			0.53
3/15/2021	<0.001					
3/16/2021		0.0054 (J)		0.31		
9/21/2021	<0.001					
9/22/2021		0.018		0.22	0.0053 (J)	0.5
9/23/2021			0.094			
2/1/2022				0.18	0.003 (J)	0.77
2/2/2022		0.015				
2/3/2022	<0.001		0.086			
8/30/2022		0.0133				0.309
8/31/2022	<0.001		0.0786		0.00252	
9/1/2022				0.154		
2/1/2023	<0.001			0.136	0.00484	0.384
2/2/2023		0.0167	0.0748			
Mean	0.001256	0.01105	0.09809	0.1668	0.00636	0.2696
Std. Dev.	0.001084	0.009367	0.01607	0.06128	0.003478	0.1909
Upper Lim.	0.0056	0.01504	0.1078	0.2038	0.01	0.3563
Lower Lim.	0.001	0.004822	0.08837	0.1297	0.003	0.1467

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22	MW-24D	MW-25D
8/31/2016		<0.001		
9/1/2016	0.0686			
10/25/2016	0.0018 (J)			
10/26/2016		<0.001		
1/4/2017	0.0222	<0.001		
4/4/2017	0.0476			
4/6/2017		<0.001		
7/11/2017		<0.001		
7/13/2017	0.0105			
10/3/2017	0.0031 (J)			
10/4/2017		<0.001		
1/9/2018	0.09			
1/11/2018		<0.001		
7/10/2018	0.047			
7/11/2018		<0.001		
8/27/2019		<0.001		
8/28/2019	0.07			
10/8/2019	0.078			
10/9/2019		<0.001		
4/7/2020	0.012	<0.001		
8/18/2020	0.069	<0.001		
9/30/2020	0.028	<0.001		
1/20/2021				0.0011 (J)
1/21/2021			0.0014 (J)	
3/10/2021		<0.001		
3/11/2021			0.0035 (J)	0.0015 (J)
3/16/2021	0.024			
9/21/2021		<0.001		
9/22/2021	0.0019 (J)		0.0032 (J)	
9/23/2021				<0.001
2/1/2022	0.042		0.0024 (J)	
2/3/2022		<0.001		<0.001
8/30/2022	0.049			
8/31/2022		<0.001		0.000863 (J)
9/1/2022			0.00174	
2/2/2023	0.0352	0.000334 (J)	0.00113	<0.001
Mean	0.03888	0.000963	0.002228	0.001077
Std. Dev.	0.02801	0.000157	0.0009718	0.0002205
Upper Lim.	0.05583	0.001	0.003563	0.001311
Lower Lim.	0.02194	0.000334	0.0008934	0.0007407

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.023		
1/18/2016	<0.005	<0.005	<0.01			<0.005
1/19/2016					0.023	
7/26/2016					0.0056 (J)	
7/27/2016		<0.005		0.002 (J)		0.0025 (J)
7/28/2016			<0.01			
7/29/2016	0.0036 (J)					
8/30/2016		<0.005	<0.01	0.002 (J)		
8/31/2016					0.0084 (J)	0.0019 (J)
9/1/2016	0.0067 (J)					
10/25/2016				0.0022 (J)		
10/26/2016	0.0042 (J)	<0.005	<0.01		0.0052 (J)	0.002 (J)
1/3/2017		<0.005				
1/4/2017				0.0016 (J)	0.0062 (J)	<0.005
1/5/2017			0.0014 (J)			
1/6/2017	0.0042 (J)					
4/4/2017	0.0043 (J)			0.0052 (J)		
4/5/2017						<0.005
4/6/2017		<0.005	<0.01		0.0195	
7/10/2017						<0.005
7/11/2017					<0.01	
7/12/2017	0.0033 (J)	<0.005	<0.01	0.0024 (J)		
10/3/2017		<0.005	<0.01	<0.01	0.0079 (J)	
10/4/2017	0.0038 (J)					<0.005
1/9/2018			<0.01			
1/10/2018		<0.005		0.0018 (J)		
1/11/2018	0.0029 (J)				0.0054 (J)	<0.005
7/10/2018		0.0018 (J)	0.0016 (J)	0.0026 (J)		
7/11/2018	0.0015 (J)				0.0022 (J)	<0.005
1/16/2019	<0.005	<0.005	<0.01	0.0018 (J)		
1/17/2019					<0.01	<0.005
3/25/2019	<0.005					
3/26/2019		<0.005	0.05 (J)	0.0023 (J)		
3/27/2019					0.01 (J)	<0.005
8/27/2019	<0.005		0.0033 (J)	0.0016 (J)	<0.01	<0.005
8/28/2019		0.0033 (J)				
10/8/2019					<0.01	
10/9/2019	<0.005	0.0073 (J)	<0.01	0.0024 (J)		<0.005
4/7/2020	0.0025 (J)	<0.005	<0.01	0.0013 (J)	0.0021 (J)	<0.005
8/17/2020						<0.005
8/18/2020					0.0028 (J)	
8/19/2020	<0.005	<0.005	<0.01	0.002 (J)		
9/28/2020				<0.01		
9/29/2020					0.0024 (J)	<0.005
9/30/2020		<0.005	0.0023 (J)			
10/1/2020	<0.005					
3/10/2021	0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)	0.0044 (J)	0.003 (J)
9/21/2021	<0.005	<0.005	0.0016 (J)		0.0038 (J)	<0.005
9/23/2021				0.0018 (J)		
2/2/2022	<0.005		0.0017 (J)			
2/3/2022		<0.005		0.0022 (J)	0.019	<0.005
8/30/2022	0.00265 (J)	<0.005	0.00277 (J)			<0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					0.00344 (J)	
9/1/2022				0.00252 (J)		
2/1/2023		0.00187 (J)	0.00182 (J)		0.00333 (J)	<0.005
2/2/2023	0.00466 (J)			0.0022 (J)		
Mean	0.004155	0.004785	0.0087	0.003433	0.00794	0.004518
Std. Dev.	0.001238	0.001159	0.009991	0.004507	0.005863	0.001064
Upper Lim.	0.00398	0.006	0.01	0.0026	0.008498	0.005
Lower Lim.	0.002723	0.0033	0.0023	0.0018	0.003621	0.003

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
1/17/2016	<0.005	<0.005	0.0031 (J)		<0.005	<0.005
1/18/2016				<0.005		
4/26/2016	0.00428 (J)		0.00497 (J)			
7/27/2016	0.0038 (J)	<0.005			0.002 (J)	
7/28/2016			0.0076 (J)			<0.005
7/29/2016				0.0011 (J)		
8/31/2016					<0.005	
9/1/2016	0.0056 (J)	<0.005	0.0052 (J)	0.0012 (J)		<0.005
10/25/2016	0.0023 (J)	<0.005	0.0085 (J)			0.0014 (J)
10/26/2016				0.0013 (J)	0.0035 (J)	
1/4/2017			0.0048 (J)			0.0014 (J)
1/5/2017	0.0038 (J)	<0.005		0.0012 (J)	<0.005	
4/3/2017		<0.005				
4/4/2017	0.0064 (J)				<0.005	<0.005
4/5/2017			0.0068 (J)	<0.005		
7/11/2017	0.0044 (J)	<0.005				<0.005
7/12/2017			0.0048 (J)			
7/13/2017				0.0018 (J)	<0.005	
10/2/2017	0.004 (J)	<0.005				<0.005
10/3/2017			0.0051 (J)		<0.005	
10/4/2017				0.0042 (J)		
1/9/2018	0.0019 (J)	0.0019 (J)				
1/10/2018			0.0018 (J)		<0.005	<0.005
1/11/2018				<0.005		
7/9/2018	0.0029 (J)					<0.005
7/10/2018		0.0086 (J)	0.0045 (J)		<0.005	
7/11/2018				0.0016 (J)		
1/16/2019	0.0016 (J)			<0.005		
1/17/2019		0.0029 (J)	0.0031 (J)			
1/21/2019					<0.005	0.0014 (J)
3/25/2019						<0.005
3/26/2019	0.0022 (J)	0.0074 (J)	0.0033 (J)	<0.005		
7/30/2019					<0.005	
8/27/2019	0.0035 (J)	0.0092 (J)			<0.005	
8/28/2019			0.004 (J)	<0.005		0.0014 (J)
10/8/2019	0.0026 (J)	0.014	0.0023 (J)			
10/9/2019				<0.005	<0.005	<0.005
4/7/2020	0.005 (J)	0.0029 (J)	<0.005			
4/8/2020				<0.005	<0.005	0.0013 (J)
8/18/2020	0.0029 (J)	0.0022 (J)	0.0058 (J)	0.002 (J)	<0.005	<0.005
9/29/2020	0.0051 (J)				<0.005	
9/30/2020		<0.005	0.0037 (J)	<0.005		<0.005
3/11/2021				0.0016 (J)		
3/12/2021		0.0064				<0.005
3/15/2021					<0.005	
3/16/2021	0.0034 (J)		0.0044 (J)			
9/22/2021	0.0034 (J)		0.0031 (J)	<0.005	<0.005	0.0024 (J)
9/23/2021		0.0016 (J)				
2/1/2022			0.0024 (J)	<0.005		<0.005
2/2/2022	0.0038 (J)				<0.005	
2/3/2022		0.0031 (J)				
8/30/2022	0.00544					0.00192 (J)

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
8/31/2022		0.00192 (J)		<0.005		
9/1/2022			0.00334 (J)		<0.005	
2/1/2023			<0.005	<0.005		<0.005
2/2/2023	0.0035 (J)	<0.005			<0.005	
Mean	0.003666	0.005096	0.004244	0.003682	0.004795	0.003919
Std. Dev.	0.001253	0.002846	0.001738	0.001726	0.0007013	0.001634
Upper Lim.	0.004322	0.004789	0.005153	0.005	0.005	0.005
Lower Lim.	0.003011	0.002124	0.003335	0.0016	0.0035	0.00192

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-21	GWC-22
1/17/2016	0.021	
1/18/2016		<0.005
7/28/2016	0.0341	
7/29/2016		0.0022 (J)
8/31/2016		0.0014 (J)
9/1/2016	0.0297	
10/25/2016	0.0095 (J)	
10/26/2016		0.001 (J)
1/4/2017	0.022	<0.005
4/4/2017	0.0236	
4/6/2017		<0.005
7/11/2017		<0.005
7/13/2017	0.013	
10/3/2017	0.01 (J)	
10/4/2017		0.0023 (J)
1/9/2018	0.0162	
1/11/2018		<0.005
7/10/2018	0.016	
7/11/2018		<0.005
1/17/2019	0.011	
1/18/2019		<0.005
3/26/2019	0.022	
3/27/2019		<0.005
8/27/2019		<0.005
8/28/2019	0.019	
10/8/2019	0.019	
10/9/2019		<0.005
4/7/2020	0.012	<0.005
8/18/2020	0.013	<0.005
9/30/2020	0.0061 (J)	<0.005
3/10/2021		<0.005
3/16/2021	0.0055	
9/21/2021		<0.005
9/22/2021	0.0027 (J)	
2/1/2022	0.0054	
2/3/2022		<0.005
8/30/2022	0.00648	
8/31/2022		<0.005
2/2/2023	0.00542	<0.005
Mean	0.01467	0.004405
Std. Dev.	0.008413	0.001315
Upper Lim.	0.01918	0.005
Lower Lim.	0.01015	0.0023

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-1	GWC-11	GWC-12	GWC-14
8/30/2016		<0.002	<0.002			
8/31/2016				<0.002	<0.002	
9/1/2016	<0.002					<0.002
10/25/2016			<0.002			<0.002
10/26/2016	<0.002	<0.002		<0.002	0.0003 (J)	
1/3/2017		<0.002				
1/4/2017			<0.002	<0.002	<0.002	
1/5/2017						<0.002
1/6/2017	<0.002					
4/4/2017	7E-05 (J)		5E-05 (J)			7E-05 (J)
4/5/2017					0.0002 (J)	
4/6/2017		<0.002		6E-05 (J)		
7/10/2017					0.0002 (J)	
7/11/2017				<0.002		6E-05 (J)
7/12/2017	<0.002	<0.002	<0.002			
10/2/2017						<0.002
10/3/2017		<0.002	<0.002	7E-05 (J)		
10/4/2017	<0.002				0.0002 (J)	
1/9/2018						<0.002
1/10/2018		<0.002	<0.002			
1/11/2018	7E-05 (J)			0.0001 (J)	0.0002 (J)	
7/9/2018						<0.002
7/10/2018		<0.002	<0.002			
7/11/2018	<0.002			<0.002	<0.002	
8/27/2019	<0.002		<0.002	<0.002	0.00011 (J)	<0.002
8/28/2019		5.7E-05 (J)				
10/8/2019				9.8E-05 (J)		<0.002
10/9/2019	<0.002	0.00031 (J)	5.4E-05 (J)		0.00014 (J)	
4/7/2020	<0.002	<0.002	5.4E-05 (J)	0.00019 (J)	0.00013 (J)	<0.002
8/17/2020					<0.002	
8/18/2020				0.00021 (J)		<0.002
8/19/2020	<0.002	<0.002	<0.002			
9/28/2020			<0.002			
9/29/2020				0.00017 (J)	<0.002	<0.002
9/30/2020		<0.002				
10/1/2020	<0.002					
3/10/2021	<0.002	<0.002	<0.002	0.00022 (J)	<0.002	
3/16/2021						<0.002
9/21/2021	<0.002	<0.002		<0.002	<0.002	
9/22/2021						<0.002
9/23/2021			<0.002			
2/2/2022	<0.002					<0.002
2/3/2022		<0.002	<0.002	<0.002	<0.002	
8/30/2022	<0.002	<0.002			<0.002	<0.002
8/31/2022				<0.002		
9/1/2022			<0.002			
2/1/2023		<0.002		<0.002	<0.002	
2/2/2023	<0.002		<0.002			<0.002
Mean	0.001786	0.001798	0.001675	0.001173	0.001193	0.001785
Std. Dev.	0.0006241	0.000589	0.0007468	0.0009521	0.0009288	0.0006257
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	7E-05	0.00031	5.4E-05	0.0001	0.00014	7E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-2	GWC-21	GWC-22
8/31/2016			<0.002		<0.002
9/1/2016	<0.002	<0.002		<0.002	
10/25/2016	<0.002			<0.002	
10/26/2016		<0.002	<0.002		<0.002
1/4/2017	<0.002			<0.002	<0.002
1/5/2017		<0.002	<0.002		
4/4/2017			<0.002	5E-05 (J)	
4/5/2017	6E-05 (J)	0.0001 (J)			
4/6/2017					<0.002
7/11/2017					<0.002
7/12/2017	<0.002				
7/13/2017		<0.002	<0.002	<0.002	
10/3/2017	<0.002		<0.002	<0.002	
10/4/2017		0.0001 (J)			0.0001 (J)
1/9/2018				<0.002	
1/10/2018	5E-05 (J)		<0.002		
1/11/2018		0.0001 (J)			6E-05 (J)
7/10/2018	<0.002		<0.002	<0.002	
7/11/2018		<0.002			<0.002
7/30/2019			0.00011 (J)		
8/27/2019			<0.002		8.6E-05 (J)
8/28/2019	<0.002	6.6E-05 (J)		<0.002	
10/8/2019	<0.002			<0.002	
10/9/2019		7.6E-05 (J)	<0.002		<0.002
4/7/2020	<0.002			<0.002	6.5E-05 (J)
4/8/2020		5.6E-05 (J)	<0.002		
8/18/2020	<0.002	<0.002	<0.002	<0.002	0.00017 (J)
9/29/2020			<0.002		
9/30/2020	<0.002	<0.002		<0.002	<0.002
3/10/2021					<0.002
3/11/2021		<0.002			
3/15/2021			<0.002		
3/16/2021	<0.002			<0.002	
9/21/2021					<0.002
9/22/2021	<0.002	<0.002	<0.002	<0.002	
2/1/2022	<0.002	<0.002		<0.002	
2/2/2022			<0.002		
2/3/2022					<0.002
8/30/2022				<0.002	
8/31/2022		<0.002			<0.002
9/1/2022	<0.002		<0.002		
2/1/2023	<0.002	<0.002			
2/2/2023			<0.002	<0.002	<0.002
Mean	0.001784	0.001361	0.001901	0.001892	0.001471
Std. Dev.	0.000629	0.0009299	0.0004336	0.0004596	0.0008777
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	6E-05	0.0001	0.00011	5E-05	0.0001

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.0046 (J)		
1/18/2016	0.049	0.0069	0.0044 (J)			0.0058
1/19/2016					0.0025 (J)	
7/26/2016					0.0027 (J)	
7/27/2016		0.0046 (J)		0.0064 (J)		0.0058 (J)
7/28/2016			0.0038 (J)			
7/29/2016	0.0388					
1/3/2017		<0.01				
1/4/2017				<0.01	<0.01	<0.01
1/5/2017			0.0077 (J)			
1/6/2017	0.0341					
4/4/2017	0.0371			0.0061 (J)		
4/5/2017						0.0039 (J)
4/6/2017		0.0063 (J)	0.0069 (J)		0.0025 (J)	
7/10/2017						0.0062 (J)
7/11/2017					0.0027 (J)	
7/12/2017	0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)		
1/9/2018			0.0086 (J)			
1/10/2018		0.0077 (J)		0.0056 (J)		
1/11/2018	0.0327				0.0019 (J)	0.0025 (J)
7/10/2018		0.016	0.0098 (J)	0.0056 (J)		
7/11/2018	0.02				0.0021 (J)	0.0059 (J)
1/16/2019	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)		
1/17/2019					0.0021 (J)	<0.01
3/25/2019	0.004 (J)					
3/26/2019		0.0058 (J)	0.086	0.0051 (J)		
3/27/2019					0.0023 (J)	0.0049 (J)
10/8/2019					<0.01	
10/9/2019	<0.01	0.033 (J)	0.018 (J)	<0.01		0.0021 (J)
4/7/2020	0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)	<0.01	0.0024 (J)
9/28/2020				0.0042 (J)		
9/29/2020					0.0023 (J)	0.0046 (J)
9/30/2020		0.0037 (J)	0.018			
10/1/2020	0.0047 (J)					
3/10/2021	0.0054 (J)	0.0026 (J)	0.027	0.005 (J)	0.0023 (J)	0.0055 (J)
9/21/2021	0.0027 (J)	0.0039 (J)	0.015		0.002 (J)	0.0051 (J)
9/23/2021				0.0042 (J)		
2/2/2022	0.0031 (J)		0.0099 (J)			
2/3/2022		0.0046 (J)		0.0028 (J)	0.0031 (J)	0.0052 (J)
8/30/2022	0.00943 (J)	0.0138 (J)	0.0192 (J)			0.00949 (J)
8/31/2022					0.00481 (J)	
9/1/2022				0.00748 (J)		
2/1/2023		0.0255	0.0201		0.00373 (J)	0.0056 (J)
2/2/2023	0.021			0.00497 (J)		
Mean	0.0184	0.009082	0.02248	0.004974	0.003944	0.004999
Std. Dev.	0.0166	0.008465	0.0241	0.001413	0.002976	0.001717
Upper Lim.	0.0371	0.0107	0.02616	0.005859	0.00481	0.0059
Lower Lim.	0.0037	0.004383	0.008613	0.004088	0.0021	0.0039

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.028	0.0013 (J)	0.0029 (J)		<0.02
1/18/2016	0.0011 (J)				0.0019 (J)	
4/26/2016		0.0181		0.00296 (J)		
7/26/2016	<0.02					
7/27/2016		0.0189	<0.01			<0.02
7/28/2016				0.0026 (J)		
7/29/2016					0.0031 (J)	
10/25/2016		0.0206	<0.01	<0.05		
1/4/2017				<0.05		
1/5/2017	<0.02	0.0172	<0.01		<0.01	<0.02
4/3/2017			0.002 (J)			
4/4/2017		0.0235				<0.02
4/5/2017				0.0033 (J)	0.0029 (J)	
4/6/2017	<0.02					
7/11/2017		0.0136	0.0022 (J)			
7/12/2017	0.0016 (J)			0.0037 (J)		
7/13/2017					0.0037 (J)	<0.02
10/2/2017		0.0175	0.0022 (J)			
10/3/2017				0.0036 (J)		
1/9/2018		0.0103	0.0021 (J)			
1/10/2018	0.0019 (J)			0.0029 (J)		<0.02
1/11/2018					0.0026 (J)	
7/9/2018		0.0078 (J)				
7/10/2018			0.0025 (J)	0.0025 (J)		<0.02
7/11/2018	0.0097 (J)				0.0032 (J)	
1/16/2019	<0.02	0.0043 (J)			<0.01	
1/17/2019			<0.01	0.0021 (J)		
1/21/2019						0.0024 (J)
3/26/2019	0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)	0.0024 (J)	
7/30/2019						<0.02
10/8/2019	<0.02	<0.01	<0.01	<0.05		
10/9/2019					<0.01	<0.02
4/7/2020		0.0026 (J)	<0.01	<0.05		
4/8/2020	<0.02				<0.01	<0.02
9/28/2020	<0.02					
9/29/2020		<0.01				<0.02
9/30/2020			0.0028 (J)	0.0028 (J)	<0.01	
3/11/2021					<0.01	
3/12/2021			0.0037 (J)			
3/15/2021	<0.02					<0.02
3/16/2021		<0.01		0.0034 (J)		
9/21/2021	<0.02					
9/22/2021		0.0052 (J)		0.0025 (J)	<0.01	<0.02
9/23/2021			0.0022 (J)			
2/1/2022				0.0021 (J)	0.0022 (J)	
2/2/2022		0.004 (J)				<0.02
2/3/2022	<0.02		0.0023 (J)			
8/30/2022		0.00933 (J)				
8/31/2022	<0.02		0.00476 (J)		0.00599 (J)	
9/1/2022				0.0065 (J)		0.0045 (J)
2/1/2023	<0.02			0.00361 (J)	0.005 (J)	
2/2/2023		0.00594 (J)	0.00453 (J)			<0.02

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
Mean	0.01513	0.01216	0.00501	0.01256	0.006058	0.01805
Std. Dev.	0.007979	0.007157	0.00358	0.01923	0.003534	0.005509
Upper Lim.	0.02	0.01622	0.01	0.0065	0.01	0.02
Lower Lim.	0.0029	0.008095	0.0022	0.0026	0.0026	0.0045

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
1/17/2016	0.0025 (J)	0.0039 (J)				
1/18/2016			<0.02	<0.02		
7/28/2016	0.0024 (J)	0.0022 (J)		<0.02		
7/29/2016			0.0052 (J)			
10/25/2016	<0.01					
1/4/2017	<0.01	<0.01	<0.02			
1/6/2017				<0.02		
4/4/2017	0.0024 (J)	0.003 (J)				
4/6/2017			<0.02	<0.02		
7/11/2017	0.003 (J)		0.0016 (J)			
7/12/2017				0.0013 (J)		
7/13/2017		0.0019 (J)				
10/2/2017	0.0028 (J)					
1/9/2018		0.0046 (J)				
1/10/2018	0.0026 (J)					
1/11/2018			0.0012 (J)	<0.02		
7/9/2018	<0.01					
7/10/2018		0.0031 (J)				
7/11/2018			0.0025 (J)	<0.02		
1/17/2019		0.0022 (J)				
1/18/2019			<0.02	<0.02		
1/21/2019	0.0031 (J)					
3/25/2019	0.0024 (J)					
3/26/2019		0.0041 (J)				
3/27/2019			0.002 (J)	<0.02		
10/8/2019		<0.01				
10/9/2019	<0.01		<0.02	<0.02		
4/7/2020		<0.01	0.0014 (J)			
4/8/2020	<0.01			0.0015 (J)		
9/30/2020	0.0029 (J)	0.0029 (J)	<0.02			
10/1/2020				<0.02		
3/10/2021			<0.02	<0.02		
3/11/2021					<0.02	0.0024 (J)
3/12/2021	0.0038 (J)					
3/16/2021		0.003 (J)				
9/21/2021			<0.02			
9/22/2021	0.0033 (J)	<0.01		<0.02	<0.02	
9/23/2021						<0.02
2/1/2022	0.0039 (J)	0.0036 (J)			<0.02	
2/2/2022				<0.02		
2/3/2022			<0.02			<0.02
8/30/2022	0.00647 (J)	0.00715 (J)				
8/31/2022			0.00396 (J)			<0.02
9/1/2022				0.00514 (J)	0.00414 (J)	
2/1/2023	0.00526 (J)			<0.02		
2/2/2023		0.00537 (J)	<0.02		<0.02	<0.02
Mean	0.005096	0.005119	0.01282	0.01694	0.01683	0.01648
Std. Dev.	0.003178	0.003062	0.008899	0.006862	0.007093	0.007871
Upper Lim.	0.01	0.00418	0.02	0.02	0.02	0.02
Lower Lim.	0.0025	0.002548	0.002	0.00514	0.00414	0.0024

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				<0.02		
1/18/2016	0.0092	<0.02	0.0029			0.0025
1/19/2016					0.0029	
7/26/2016					<0.02	
7/27/2016		0.0015 (J)		<0.02		0.0021 (J)
7/28/2016			<0.01			
7/29/2016	0.003 (J)					
1/3/2017		<0.02				
1/4/2017				<0.02	<0.02	0.0025 (J)
1/5/2017			<0.01			
1/6/2017	0.0104					
4/4/2017	0.0132			<0.02		
4/5/2017						0.0026 (J)
4/6/2017		0.0023 (J)	0.0032 (J)		0.004 (J)	
7/10/2017						0.0023 (J)
7/11/2017					<0.02	
7/12/2017	0.0046 (J)	<0.02	0.002 (J)	<0.02		
1/9/2018			0.0036 (J)			
1/10/2018		0.0022 (J)		0.0014 (J)		
1/11/2018	0.0095 (J)				0.0018 (J)	0.0031 (J)
7/10/2018		<0.02	0.0055 (J)	0.0021 (J)		
7/11/2018	0.0028 (J)				<0.02	0.0036 (J)
1/16/2019	0.0052 (J)	<0.02	<0.01	<0.02		
1/17/2019					<0.02	0.0032 (J)
3/25/2019	0.0078 (J)					
3/26/2019		<0.02	<0.01	<0.02		
3/27/2019					<0.02	0.0031 (J)
10/8/2019					0.0061 (J)	
10/9/2019	0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)		0.0057 (J)
4/7/2020	<0.02	<0.02	<0.01	<0.02	<0.02	<0.01
9/28/2020				0.0092 (J)		
9/29/2020					0.0031 (J)	0.0074 (J)
9/30/2020		<0.02	<0.01			
10/1/2020	0.0064 (J)					
3/10/2021	<0.02	<0.02	<0.01	<0.02	<0.02	<0.01
9/21/2021	<0.02	<0.02	<0.01		<0.02	<0.01
9/23/2021				<0.02		
2/2/2022	<0.02		<0.01			
2/3/2022		<0.02		<0.02	<0.02	<0.01
8/30/2022	<0.02	<0.02	0.0132 (J)			0.0262
8/31/2022					<0.02	
9/1/2022				0.00578 (J)		
2/1/2023		<0.02	0.0121 (J)		<0.02	0.00334 (J)
2/2/2023	<0.02			<0.02		
Mean	0.01168	0.01612	0.008735	0.01554	0.01517	0.006332
Std. Dev.	0.006834	0.007325	0.003916	0.007295	0.007754	0.005993
Upper Lim.	0.02	0.02	0.0121	0.02	0.02	0.01
Lower Lim.	0.0052	0.0081	0.0036	0.00578	0.004	0.0025

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		<0.02	<0.02	<0.02		<0.02
1/18/2016	0.0017 (J)				0.012	
4/26/2016		<0.02		<0.02		
7/26/2016	0.0028 (J)					
7/27/2016		<0.02	<0.02			0.0018 (J)
7/28/2016				<0.02		
7/29/2016					0.0086 (J)	
10/25/2016		<0.02	<0.02	<0.02		
1/4/2017				0.0025 (J)		
1/5/2017	0.0021 (J)	<0.02	<0.02		0.016	<0.02
4/3/2017			<0.02			
4/4/2017		<0.02				0.0015 (J)
4/5/2017				0.0025 (J)	0.0175	
4/6/2017	0.0027 (J)					
7/11/2017		<0.02	<0.02			
7/12/2017	0.0043 (J)			0.002 (J)		
7/13/2017					0.0126	0.0014 (J)
10/2/2017		0.0026 (J)	<0.02			
10/3/2017				<0.02		
1/9/2018		0.0018 (J)	<0.02			
1/10/2018	0.0021 (J)			0.0016 (J)		<0.02
1/11/2018					0.012	
7/9/2018		<0.02				
7/10/2018			<0.02	0.0031 (J)		<0.02
7/11/2018	0.0039 (J)				0.011	
1/16/2019	0.047	<0.02			0.0094 (J)	
1/17/2019			<0.02	<0.02		
1/21/2019						<0.02
3/26/2019	0.03	<0.02	<0.02	<0.02	0.0057 (J)	
7/30/2019						0.0067 (J)
10/8/2019	0.053	0.0052 (J)	0.0051 (J)	0.01		
10/9/2019					0.011	0.005 (J)
4/7/2020		<0.02	<0.02	<0.02		
4/8/2020	0.023				<0.01	<0.02
9/28/2020	0.016					
9/29/2020		<0.02				0.056
9/30/2020			0.032	0.0051 (J)	0.0043 (J)	
3/11/2021					0.0056 (J)	
3/12/2021			<0.02			
3/15/2021	0.039					<0.02
3/16/2021		<0.02		<0.02		
9/21/2021	0.036					
9/22/2021		0.01		<0.02	<0.01	<0.02
9/23/2021			<0.02			
2/1/2022				<0.02	0.011	
2/2/2022		<0.02				<0.02
2/3/2022	0.037		<0.02			
8/30/2022		<0.02				
8/31/2022	0.0266		0.00395 (J)		0.0068 (J)	
9/1/2022				0.0119 (J)		0.0125 (J)
2/1/2023	0.025			<0.02	0.00583 (J)	
2/2/2023		<0.02	<0.02			<0.02

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
Mean	0.02072	0.01698	0.019	0.01393	0.009372	0.01676
Std. Dev.	0.01765	0.006369	0.005796	0.007989	0.003981	0.01274
Upper Lim.	0.037	0.02	0.032	0.02	0.01187	0.056
Lower Lim.	0.0027	0.01	0.0051	0.0031	0.006878	0.005

Confidence Interval

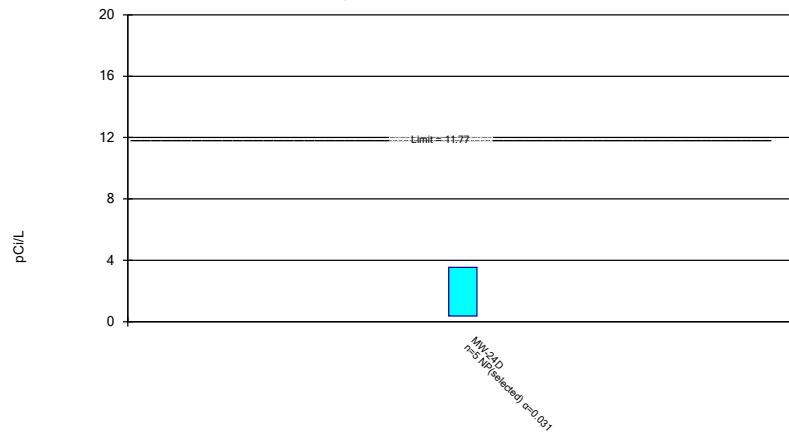
Constituent: Zinc (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D
1/17/2016	<0.02	<0.02				
1/18/2016			<0.02	0.0059		
7/28/2016	<0.02	<0.02		0.0019 (J)		
7/29/2016			0.0129			
10/25/2016	<0.02					
1/4/2017	<0.02	<0.02	0.006 (J)			
1/6/2017				0.0026 (J)		
4/4/2017	<0.02	0.0015 (J)				
4/6/2017			0.0031 (J)	0.0047 (J)		
7/11/2017	<0.02		0.0029 (J)			
7/12/2017				0.003 (J)		
7/13/2017		0.002 (J)				
10/2/2017	<0.02					
1/9/2018		0.0016 (J)				
1/10/2018	0.0034 (J)					
1/11/2018			0.0106	0.0046 (J)		
7/9/2018	<0.02					
7/10/2018		<0.02				
7/11/2018			0.0057 (J)	0.0033 (J)		
1/17/2019		<0.02				
1/18/2019			0.0024 (J)	0.0025 (J)		
1/21/2019	<0.02					
3/25/2019	<0.02					
3/26/2019		<0.02				
3/27/2019			<0.02	0.0026 (J)		
10/8/2019		0.0071 (J)				
10/9/2019	0.0049 (J)		0.0079 (J)	0.0054 (J)		
4/7/2020		<0.02	<0.02			
4/8/2020	<0.02			<0.02		
9/30/2020	0.031	0.0096 (J)	<0.02			
10/1/2020				0.025		
3/10/2021			<0.02	<0.02		
3/11/2021					0.0067 (J)	0.0025 (J)
3/12/2021	<0.02					
3/16/2021		<0.02				
9/21/2021			<0.02			
9/22/2021	<0.02	<0.02		<0.02	<0.01	<0.02
2/1/2022	<0.02	<0.02				<0.02
2/2/2022				<0.02		
2/3/2022			<0.02		<0.01	
8/30/2022	0.0171 (J)	0.00814 (J)				
8/31/2022			<0.02		0.0106 (J)	
9/1/2022				0.0163 (J)		0.0102 (J)
2/1/2023	<0.02			<0.02	0.0121 (J)	
2/2/2023		<0.02	<0.02			<0.02
Mean	0.01876	0.0147	0.01362	0.01046	0.00988	0.01454
Std. Dev.	0.005791	0.007677	0.00742	0.008594	0.001974	0.007957
Upper Lim.	0.031	0.02	0.02	0.02	0.01246	0.02
Lower Lim.	0.0171	0.0071	0.0057	0.0026	0.004661	0.0025

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

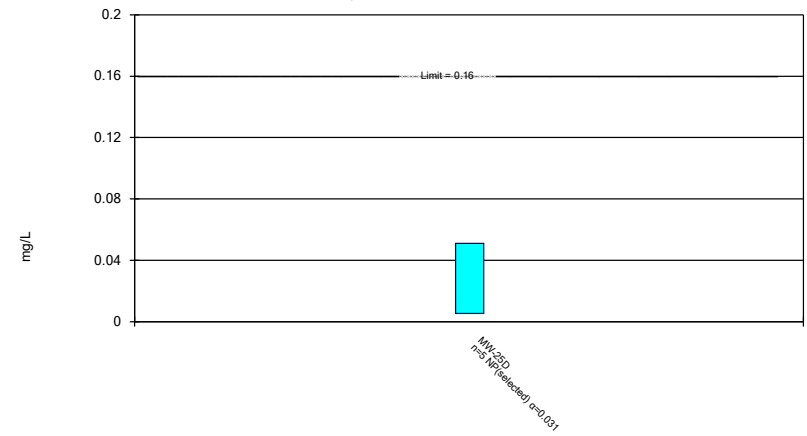


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confi
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Zinc Analysis Run 5/8/2023 10:52 AM View: Appendix II & IV - Confidence Intervals Non-para
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals Non-parametric
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-24D
3/11/2021	1.29
9/22/2021	0.982 (U)
2/1/2022	0.36 (U)
9/1/2022	3.54
2/2/2023	2.52 (U)
Mean	1.738
Std. Dev.	1.278
Upper Lim.	3.54
Lower Lim.	0.36

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 5/8/2023 10:53 AM View: Appendix II & IV - Confidence Intervals Non-parametric
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-25D
3/11/2021	0.0054 (J)
9/23/2021	<0.02
2/3/2022	0.051
8/31/2022	0.0161 (J)
2/2/2023	<0.02
Mean	0.0225
Std. Dev.	0.01702
Upper Lim.	0.051
Lower Lim.	0.0054

FIGURE K.

Trend Tests - Appendix IV - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	-0.001187	-142	-92	Yes	22	27.27	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03313	181	92	Yes	22	0	n/a	n/a	0.01	NP

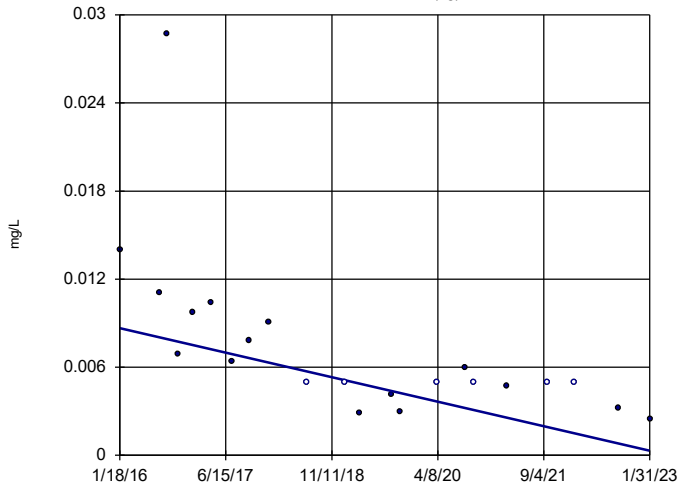
Trend Tests - Appendix IV - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 4/20/2023, 11:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	-0.001187	-142	-92	Yes	22	27.27	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	34	98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.03313	181	92	Yes	22	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	0.004368	87	98	No	23	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.006929	37	92	No	22	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-8	-68	No	18	72.22	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-16	0.01332	48	68	No	18	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	GWC-20	0.02137	13	68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

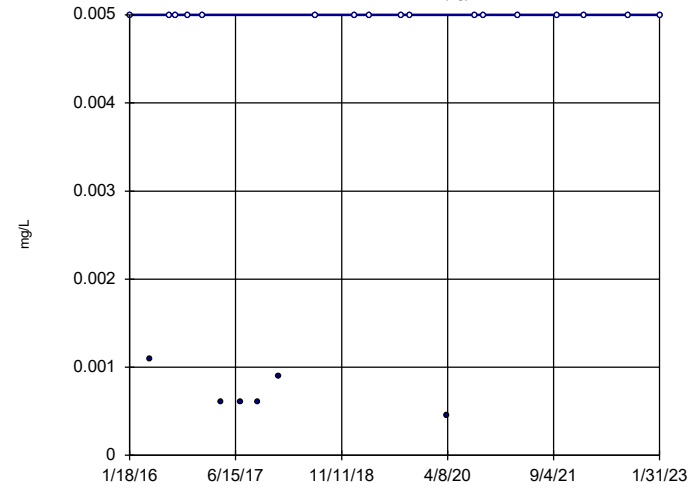


n = 22
Slope = -0.001187
units per year.
Mann-Kendall
statistic = -142
critical = -92
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

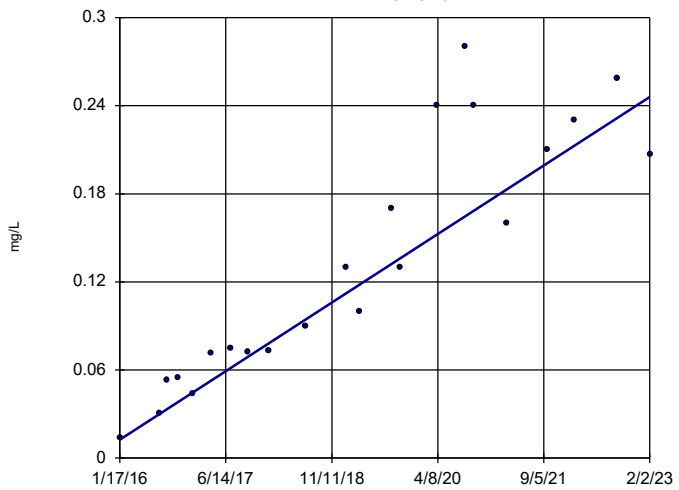


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 34
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

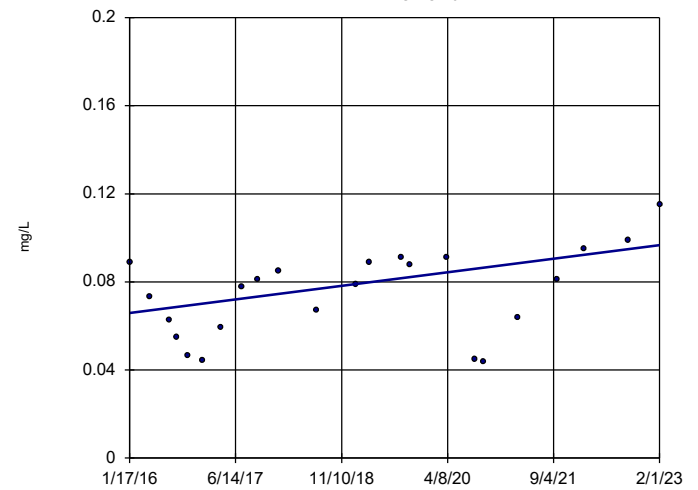


n = 22
Slope = 0.03313
units per year.
Mann-Kendall
statistic = 181
critical = 92
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

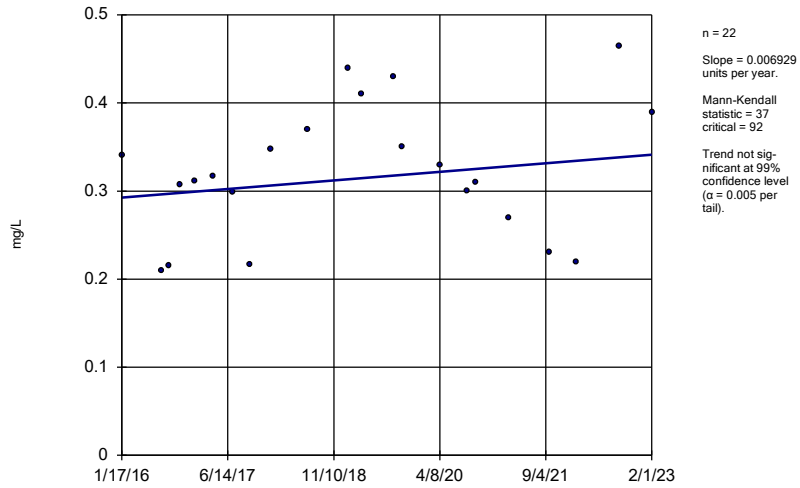


n = 23
Slope = 0.004368
units per year.
Mann-Kendall
statistic = 87
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

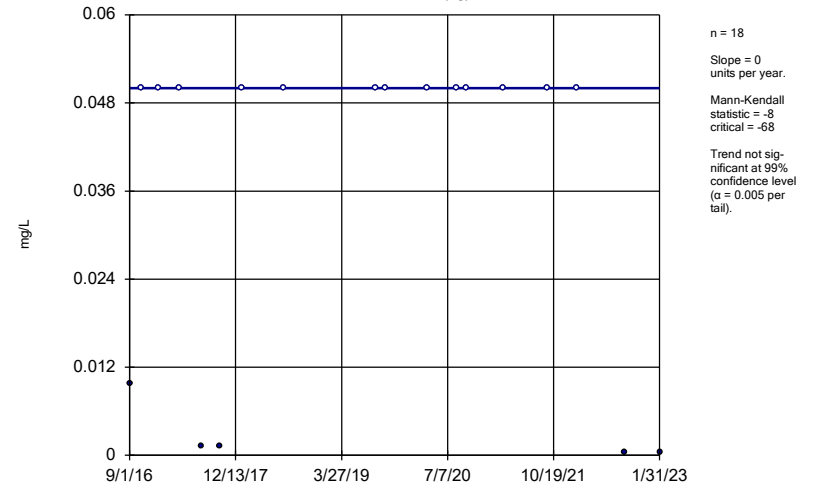


Constituent: Arsenic Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

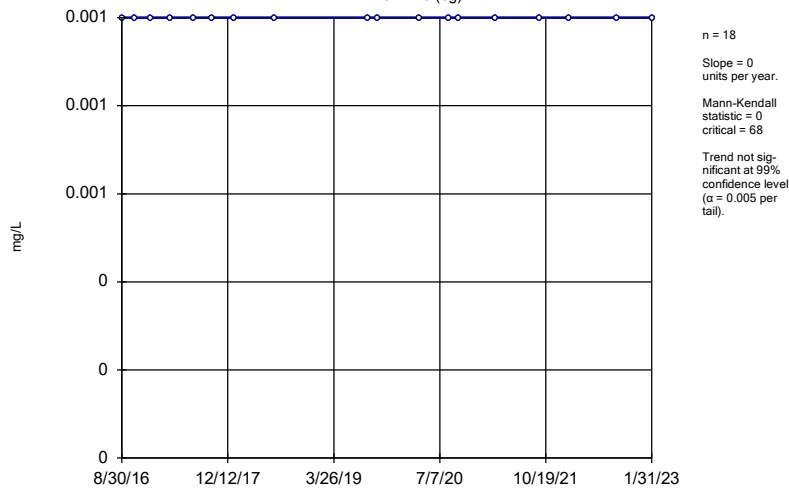
GWA-7 (bg)



Constituent: Molybdenum Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

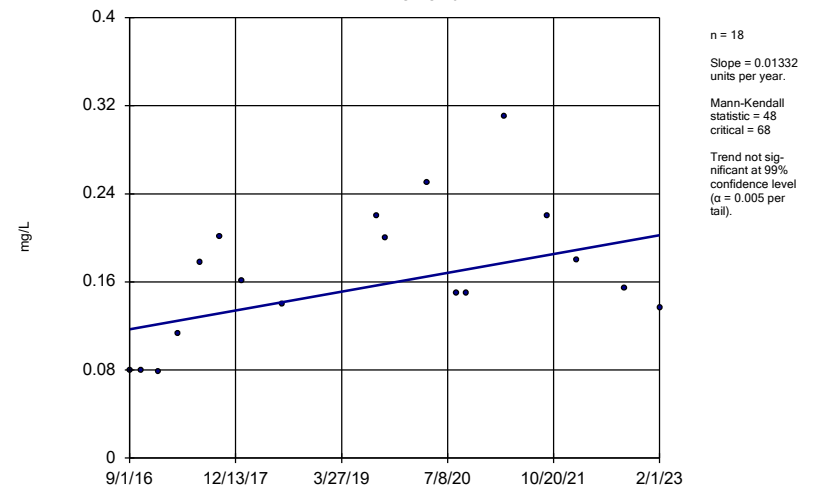
GWA-8 (bg)



Constituent: Molybdenum Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

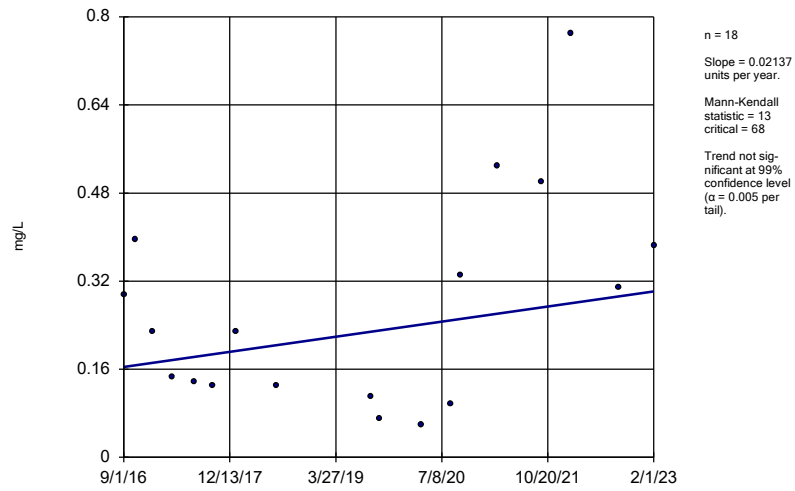
GWC-16



Constituent: Molybdenum Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20



Constituent: Molybdenum Analysis Run 4/20/2023 11:34 AM View: CI Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill



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