



Grumman Road Private Industrial Landfill

Port Wentworth, Georgia

PERMIT #: 025-061D(LI)

Chatham County

2023 SEMIANNUAL 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
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PROFESSIONAL CERTIFICATION

This *2023 Semiannual 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.

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SUMMARY

This summary of the *2023 Semiannual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2023 through December 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 QEA 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 semiannual reporting period, ACC completed a groundwater sampling event in August-September 2023 (referred to as August 2023 throughout the report). Groundwater samples were submitted to GEL Laboratories, LLC (GEL) for analysis. Per the CCR Rule,

groundwater results for August 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 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, GWC-22
Chloride	GWC-17, GWC-22
Fluoride	GWC-17
pH	GWC-15
Sulfate	GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21, GWC-22
Appendix IV Parameter ³	August 2023
Arsenic	GWC-15, GWC-16, GWC-20
Molybdenum	GWB-4R, GWC-16, GWC-20

Based on review of the statistical results completed for the groundwater monitoring and corrective action program from July 2023 through December 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 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted July through December 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 2023 through December 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 QEA 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. 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, (Anchor QEA 2023a) and is currently under review.

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 CCR removal near site utility structures were completed in late 2023 and certification of this removal was submitted to GA EPD in February 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 QEA 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 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 2023 through December 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)). The well inspection checklist completed during August 2023 is 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.

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. Current 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 GWB-4R, 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. A semiannual assessment monitoring event was completed August-September 2023 (referred to as August 2023 in the report). 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 QEA, 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. A *Draft Remedy Selection Report* was submitted for GA EPD review on July 31, 2023 under separate cover (Anchor QEA 2023a).

The *Draft Remedy Selection Report* presents the geochemical conceptual site model, which indicates groundwater migrating onto the Site from the east is impacted by leachate from the adjacent Clifton Landfill. The impacted groundwater from Clifton Landfill's leachate contains elevated dissolved organic carbon, which enhances anaerobic conditions in the southeast portion of the Site. Anaerobic or reducing groundwater conditions dissolve iron oxides, which are attenuating arsenic and molybdenum, thereby releasing arsenic and molybdenum to groundwater that is coprecipitated with iron oxide farther downgradient as groundwater conditions become more aerobic.

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. An attempt was made to sample the leachate seepage on the Site near GWA-7 during the August 2023 sampling event, but no representative sample could be collected.

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 Table 4, Summary of Groundwater Elevations – August 2023. Groundwater elevation data were used to develop Figure 3, Potentiometric Surface Contour Map – August 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 Table 5, Groundwater Flow Velocity Calculations – August 2023. The calculated maximum flow velocity was 0.31 feet per day during the August 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 6, Summary of Groundwater Analytical Data – August 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 validated data are considered usable for meeting project objectives. The associated data validation reports are provided in Appendix A, along with the laboratory reports.

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 Monitoring 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 B, 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 0.04 mg/L; and
 - (iv) Molybdenum 0.1 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 Table 8, Summary of Background Levels and Groundwater Protection Standards.

4.3 Statistical Analyses Results

Based on review of the Appendix I and III statistical analyses presented in Appendix B, 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 B, the following parameters were found to statistically exceed the GWPS for the semiannual reporting period:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWB-4R, 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 B. Statistically significant trends were identified for the following well/constituent pairs:

- Increasing trends were identified for arsenic at GWC-15 and GWC-16 and molybdenum at GWB-4R.
- No statistically significant trends were identified for molybdenum at GWC-16 and for molybdenum and arsenic at GWC-20.

With the exception of the newly identified molybdenum SSL at GWB-4R, the SSL results are consistent with those presented in the *2023 Annual 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 as presented in the *Draft Remedy Selection Report* (Anchor QEA 2023a).

5.0 NATURE AND EXTENT

Wells MW-23D and MW-24D vertically delineate arsenic and molybdenum at wells GWC-20 and GWC-16, respectively. Well MW-25D vertically delineates arsenic at GWC-15. Well MW-26D will be sampled during the next monitoring event to vertically delineate molybdenum at GWB-4R.

Data from the August 2023 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, 2023). These results suggest the arsenic impacts have not migrated far off-site. 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. Although not yet statistically delineated on-site, the August 2023 results show molybdenum as delineated on-site. The interpreted extent of arsenic and molybdenum from the August 2023 semiannual sampling are illustrated in Figure 4, Isoconcentration Map: Arsenic – August 2023 and Figure 5, Isoconcentration Map: Molybdenum – August 2023, respectively.

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

A *Draft Remedy Selection Report* was submitted to GA EPD on July 31, 2023 (Anchor QEA 2023a). The report summarizes:

- The current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Anchor QEA 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. The Draft Remedy Selection Report presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy. Success of this remedy is dependent on control of leachate-impacted groundwater from Clifton Landfill, without which natural attenuation and in-situ injections will likely not be effective to achieve GWPSs.

6.2 Annual Potable Well Survey

As requested by GA EPD, the potable well survey within a 2-mile radius of the Site was updated. The survey conducted by Environmental Data Resources (EDR) is included in Appendix C, Potable Well Survey. Additional state, county, and online records outside of the EDR survey were also reviewed. No new wells were identified in the 2024 well survey. Therefore, the findings from the 2024 well survey are consistent with the 2023 well survey (Anchor QEA 2023b).

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Semiannual 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 three wells (GWB-4R, GWC-16, and GWC-20) for the August 2023 event. The arsenic SSL in GWC-15 and arsenic and molybdenum SSLs in GWC-16 and GWC-20 are vertically delineated below the GWPS by assessment wells MW-23D through MW-25D. Well MW-26D will be sampled during the next monitoring event to vertically delineate molybdenum at GWB-4R. 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. Although not yet statistically delineated on-site, the August 2023 results show molybdenum as delineated on-site. 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 (Anchor QEA 2023a).

The next semiannual assessment sampling event is planned to begin in January 2024. 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.

8.0 REFERENCES

ACC, 2017. *Assessment of Corrective Measures – Addendum*. Grumman Road Private Industrial Landfill.

ACC, 2019. *Assessment of Corrective Measures – 2019 Addendum*. Grumman Road Private Industrial Landfill.

ACC, 2020. *2020 Annual Groundwater Monitoring and Corrective Action Report*. Grumman Road Private Industrial Landfill.

ACC, 2023. *2023 Annual Groundwater Monitoring and Corrective Action Report*. Grumman Road Private Industrial Landfill.

Anchor QEA, 2020. *Assessment of Corrective Measures*. Grumman Road Private Industrial Landfill.

Anchor QEA, 2021. *Transport Modeling Report*. Grumman Road Private Industrial Landfill.

Anchor QEA, 2023a. *Draft Remedy Selection Report*. Grumman Road Private Industrial Landfill.

Anchor QEA, 2023b. *Semiannual Remedy Selection and Design Progress Report*. Grumman Road Private Industrial Landfill, February 2023.

Civil & Environmental Consultants, Inc. (CEC), 2023. *2nd 2023 Semiannual Groundwater Statistical Analysis Report*, Savannah Regional Industrial Landfill, Chatham County, Georgia, Permit No. 025-072D(L)(I).

Clarke, J.S., Hacke, C.M., and Peck, M.F. 1990. *Geology and Ground-Water Resources of the Coastal Area of Georgia*, GGS Bulletin 113.

Clarke, J.S., Williams, L.J., and Cherry, G.C., 2010, *Hydrogeology and water quality of the Floridan aquifer system and effect of Lower Floridan aquifer pumping on the Upper Floridan aquifer at Hunter Army Airfield, Chatham County, Georgia*: U.S. Geological Survey Scientific Investigations Report 2010-5080, 56 p.

Driscoll, Fletcher G., 1986, *Groundwater and Wells*, Johnson Screens, Saint Paul, Minnesota, 1089 pp.

EPRI, 2015 Technical Report, *Groundwater Monitoring Guidance for the Coal Combustion Residuals Rule*.

Freeze, R.A. and Cherry, J.A. 1979, *Groundwater*, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.

GA EPD, 2023. *Georgia Power Company-Plant Kraft Grumman Road Landfill Transport Model Report, GEOS Submittal: 617237*.

GA EPD, 2018. *Guidance Document for Groundwater Release Notification Requirements Under Rule 391-3-4-.17(6)*.

Groundwater Stats Consulting, LLC, 2019. *Statistical Analysis Plan - Grumman Road Landfill*.

Southern Company Services, 1998, *Grumman Road Monofill Groundwater Monitoring Plan*.

SCS, 2013. *Assessment of Corrective Measures: Landfill Parcel A*. Grumman Road Ash Landfill. Prepared for Georgia Power Company. February 2013.

State Waste Management Board. 2016. *State Solid Waste Management Regulations - (9VAC20 81 et seq.)*. January.

USEPA, 1989 *Risk Assessment Guidance for Superfund (RAGS), Vol. I: Human Health Evaluation Manual (Part A) (540-1-89-002)*.

USEPA. 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery - Program Implementation and Information Division. March.

USEPA. 2011. *Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September.



USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

TABLES

**Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Semiannual 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	August 28 - September 7, 2023
Purpose of Sampling Event		Assessment
GWA-7	Upgradient	X
GWA-8	Upgradient	X
GWB-4R	Sidegradient	X
GWB-5R	Sidegradient	X
GWB-6R	Sidegradient	X
GWC-1	Downgradient	X
GWC-2	Downgradient	X
GWC-9	Downgradient	X
GWC-11	Downgradient	X
GWC-12	Downgradient	X
GWC-13	Downgradient	X
GWC-14	Downgradient	X
GWC-15	Downgradient	X
GWC-16	Downgradient	X
GWC-17	Downgradient	X
GWC-20	Downgradient	X
GWC-21	Downgradient	X
GWC-22	Downgradient	X
MW-23D	Assessment	X
MW-24D	Assessment	X
MW-25D	Assessment	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 4
Summary of Groundwater Elevations
August 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	6.42	40.16
GWA-8	46.20	7.03	39.17
GWB-4R	49.04	14.83	34.21
GWB-5R	47.21	9.93	37.28
GWB-6R	46.99	7.81	39.18
GWC-1	49.72	19.17	30.55
GWC-2	51.22	19.44	31.78
GWC-9	46.57	9.08	37.49
GWC-10	46.77	10.10	36.67
GWC-11	48.81	13.35	35.46
GWC-12	46.89	12.87	34.02
GWC-13	47.68	14.54	33.14
GWC-14	50.06	19.81	30.25
GWC-15	47.36	19.46	27.90
GWC-16	47.29	20.97	26.32
GWC-17	43.60	6.44	37.16
GWC-20	49.43	21.18	28.25
GWC-21	47.18	20.71	26.47
GWC-22	46.25	9.25	37.00
MW-23D	49.46	22.96	26.50
MW-24D	47.86	22.83	25.03
MW-25D	47.67	21.08	26.59
MW-26D	48.72	19.86	28.86
MW-27D	49.80	21.61	28.19

Notes:

1. NAVD88 indicates feet North American Vertical Datum of 1988.
2. ft BTOC indicates feet below top of casing.
3. Top of casing elevations were resurveyed on March 22, 2023.
4. Depths to water measured on August 28, 2023.

Table 5
Groundwater Flow Velocity Calculations
August 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} =	12.86/1576 ft/ft 0.008 unitless	hydraulic gradient from GWB-6R to GWC-16
dh/dl _{min} =	3.00/737 ft/ft 0.004 unitless	hydraulic gradient from GWA-7 to GWC-17
P _e =	0.20	See note 2.

$$v_{max} = \frac{(7.60)(0.008)}{0.20} \quad v_{max} = 0.31 \text{ ft/day}$$

$$v_{min} = \frac{(7.60)(0.004)}{0.20} \quad v_{min} = 0.15 \text{ ft/day}$$

Notes

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

Table 6
Summary of Groundwater Analytical Data
August 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
		8/28/2023	8/28/2023	8/29/2023	8/29/2023	8/29/2023	8/29/2023	8/29/2023	8/29/2023
APPENDIX III	Boron	7.01	0.194	4.35	3.69	5.92	0.653	0.0163	0.0160
	Calcium	3.72	13.6	133	46.8	120	53.9	0.165 J	4.38
	Chloride	91.9	10.1	66.0	61.8	53.2	7.48	4.97	21.1
	Fluoride	<0.0330	0.0498 J	<0.0330	<0.0330	0.0523 J	0.0596 J	<0.0330	0.115
	pH	5.94	4.62	5.82	5.17	5.33	5.68	4.68	4.56
	Sulfate	6.57	62.9	551	299	763	64.7	10.5	15.7
	TDS	1450	138	1290	644	1320	272	9.00 J	70.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.00390 J	<0.00200	0.00570	0.00239 J	0.00724	0.00668	<0.00200	<0.00200
	Barium	0.177	0.0483	0.160	0.0643	0.0196	0.0637	0.0452	0.138
	Beryllium	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	Cadmium	<0.000300	<0.000300	0.000304 J	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300
	Chromium	0.0139	<0.00300	0.00389 J	<0.00300	0.00349 J	0.00337 J	<0.00300	<0.00300
	Cobalt	0.00156	<0.000300	0.0122	0.00139	0.0709	<0.000300	<0.000300	0.000744 J
	Lead	0.00170 J	0.000566 J	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
	Lithium	<0.00300	<0.00300	0.0191	<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	0.000543 J	<0.000200	0.136	<0.000200	0.000729 J	0.0293	<0.000200	<0.000200
	Radium	1.69	1.84	3.86	1.63	8.19	2.65	2.49	1.44
	Selenium	0.00544	<0.00150	0.00261 J	<0.00150	0.00204 J	0.00182 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	0.137	0.0148 J	0.0201	0.00917 J	0.0226	0.0146 J	0.00777 J	0.0103 J
	Zinc	0.00851 J	<0.00330	<0.00330	<0.00330	0.0406	<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 Detectable 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 6
Summary of Groundwater Analytical Data
August 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
		9/6/2023	9/6/2023	8/29/2023	9/6/2023	9/7/2023	9/6/2023	8/29/2023	9/6/2023
APPENDIX III	Boron	4.44	9.02	0.296	0.0433	0.747	20.4	1.77	11.3
	Calcium	160	77.4	3.64	145	142	311	86.5	151
	Chloride	98.0	74.1	7.34	22.7	4.46	45.9	476	12.2
	Fluoride	<0.165	0.238	<0.0330	<0.0330	<0.0330	<0.165	0.572	<0.0660
	pH	5.05	4.35	4.89	6.19	6.64	5.16	4.66	5.86
	Sulfate	827	437	47.5	185	46.8	1250	444	460
	TDS	1330	686	62.0	594	471	1980	1270	924
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.00254 J	<0.00200	<0.00200	0.00244 J	0.287	0.120	<0.00200	0.258
	Barium	0.192	0.0273	0.0712	0.0833	0.0573	0.143	0.0295	0.178
	Beryllium	<0.000200	0.000521	<0.000200	<0.000200	<0.000200	<0.000200	0.00174	<0.000200
	Cadmium	0.000563 J	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	<0.000300	0.000823 J
	Chromium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
	Cobalt	0.000794 J	0.000732 J	<0.000300	<0.000300	<0.000300	<0.000300	0.00268	<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	0.00502 J	<0.00300
	Mercury	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670	<0.0000670
	Molybdenum	0.000804 J	<0.000200	<0.000200	0.0199	0.0588	0.0886	0.00312	0.753
	Radium	9.23	2.02	2.36	0.609 U	2.28	3.42	2.77	2.12
	Selenium	0.00360 J	<0.00150	<0.00150	0.00516	<0.00150	0.00161 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	0.00685 J	0.0101 J	0.0188 J	0.00671 J	0.00462 J	0.00631 J	0.0108 J	0.00768 J
	Zinc	0.00479 J	<0.00330	0.0194 J	<0.00330	<0.00330	<0.00330	0.00535 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 Detectable 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 6
Summary of Groundwater Analytical Data
August 2023
Grumman Road Landfill
Chatham County, Georgia

Substance		Well ID				
		GWC-21	GWC-22	MW-23D	MW-24D	MW-25D
		9/6/2023	8/29/2023	9/6/2023	9/6/2023	9/7/2023
APPENDIX III	Boron	5.60	9.28	0.0276	0.0168	0.0150 J
	Calcium	142	147	8.49	2.96	3.17
	Chloride	24.5	521	7.65	5.82	6.19
	Fluoride	<0.0660	0.0758 J	0.130	0.147	0.198
	pH	5.78	4.55	5.92	5.64	6.09
	Sulfate	470	1010	37.5	0.176 J	<0.133
	TDS	826	2300	103	20.0	23.0
APPENDIX IV	Antimony	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	Arsenic	0.0323	0.00216 J	<0.00200	<0.00200	<0.00200
	Barium	0.232	0.127	0.0732	0.0340	0.0290
	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	0.000817 J	<0.000300	<0.000300	<0.000300
	Lead	<0.000500	0.000511 J	<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	0.0458	<0.000200	<0.000200	0.000882 J	<0.000200
	Radium	4.20	11.3	3.47	1.73	1.75
	Selenium	0.00554	<0.00150	<0.00150	<0.00150	<0.00150
	Thallium	<0.000600	<0.000600	<0.000600	<0.000600	<0.000600
See Note 8	Vanadium	0.0101 J	0.0353	<0.00330	<0.00330	<0.00330
	Zinc	<0.00330	0.00540 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 Detectable 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 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 8
Summary of Background Levels and Groundwater Protection Standards
Grumman Road Landfill
Chatham County, Georgia

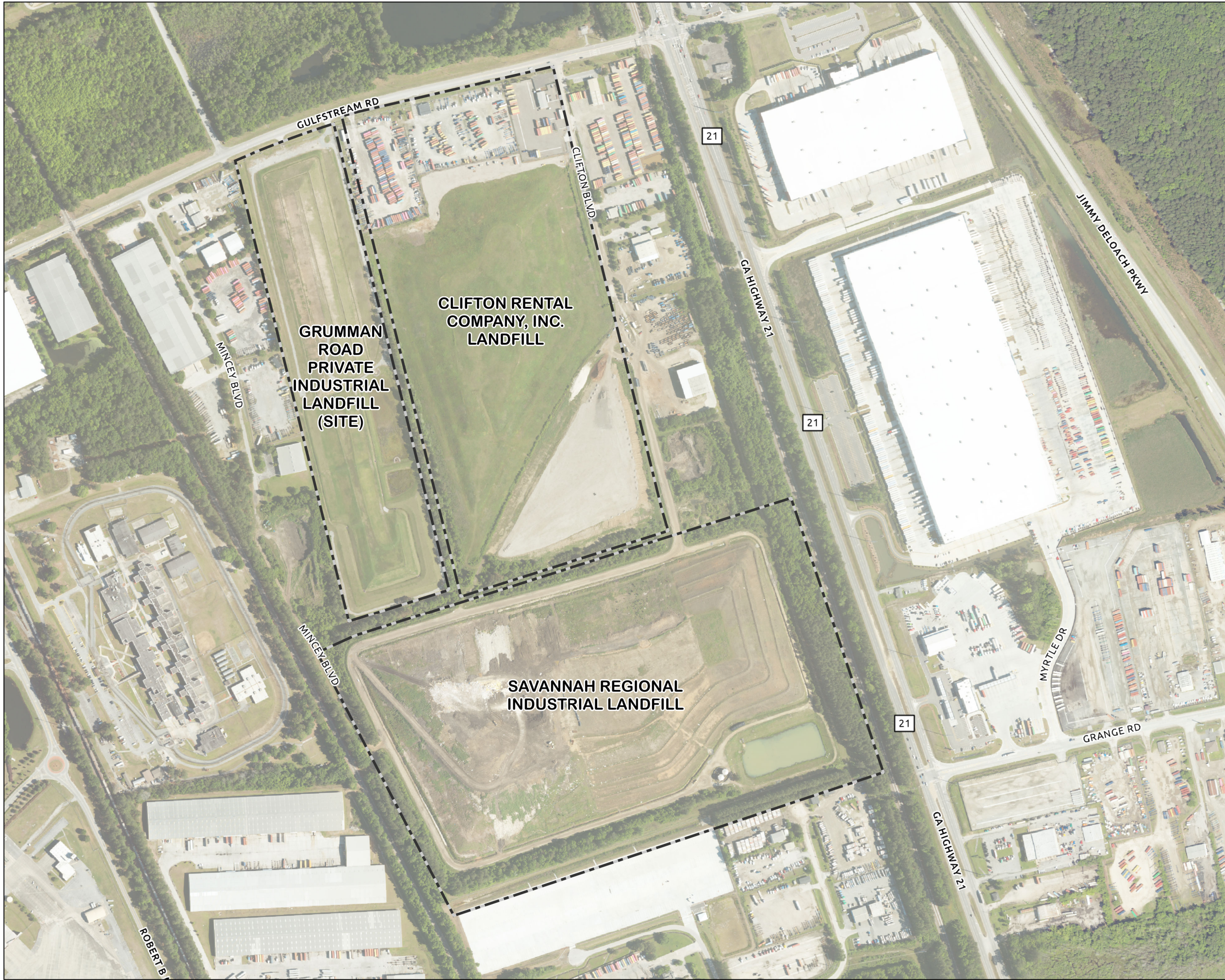
Constituent	Site Background	MCL	CCR-Rule Specified	GWPS
Antimony	0.003	0.006	N/A	0.006
Arsenic	0.029	0.01	N/A	0.029
Barium	0.17	2	N/A	2
Beryllium	0.0017	0.004	N/A	0.004
Cadmium	0.001	0.005	N/A	0.005
Chromium	0.068	0.1	N/A	0.1
Cobalt	0.010	N/A	0.006	0.010
Fluoride	0.49	4	N/A	4
Lead	0.013	N/A	0.015	0.015
Lithium	0.03	N/A	0.04	0.04
Mercury	0.0002	0.002	N/A	0.002
Molybdenum	0.0098	N/A	0.1	0.1
Radium	11.96	5	N/A	11.96
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 present.
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).

FIGURES

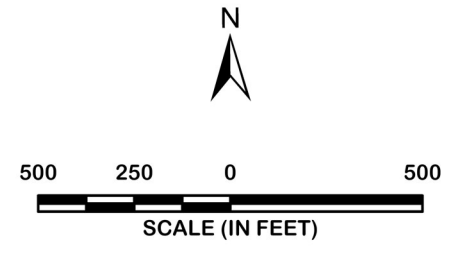
Grumman Road Private Industrial Landfill
Chatham County, Georgia
2023 Semiannual Groundwater Monitoring and Corrective Action Report



LEGEND
 - - - APPROXIMATE PROPERTY BOUNDARY







NOTES
 1. AERIAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED APRIL 15, 2023.
 2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.



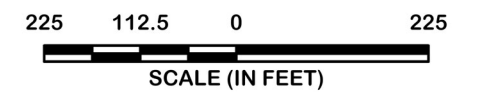
2023 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

LEGEND

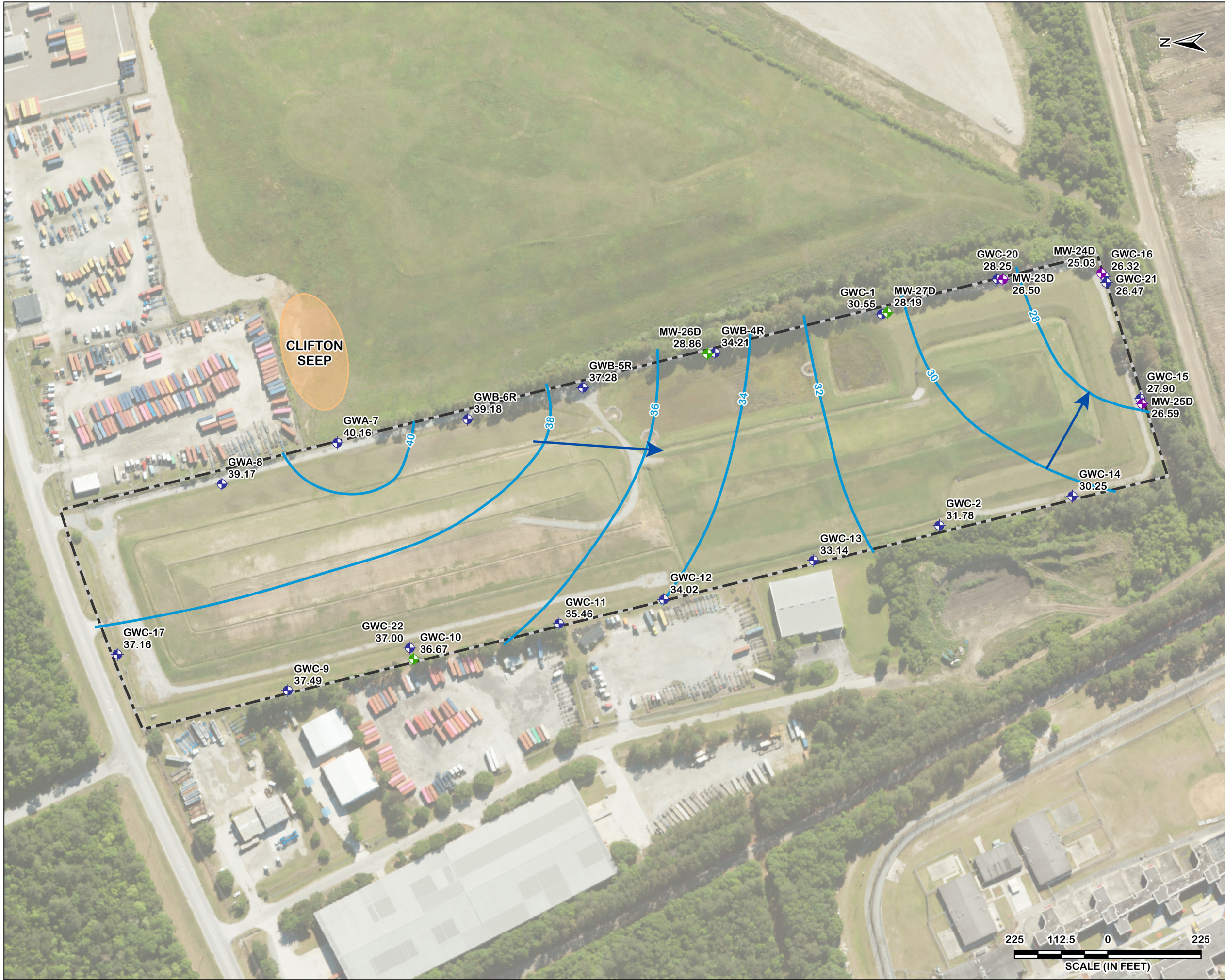
-  PROPERTY BOUNDARY
-  DETECTION MONITORING WELL
-  PIEZOMETER
-  ASSESSMENT WELL







NOTES

1. AERIAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED APRIL 15, 2023.
2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.



2023 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

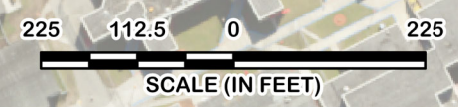


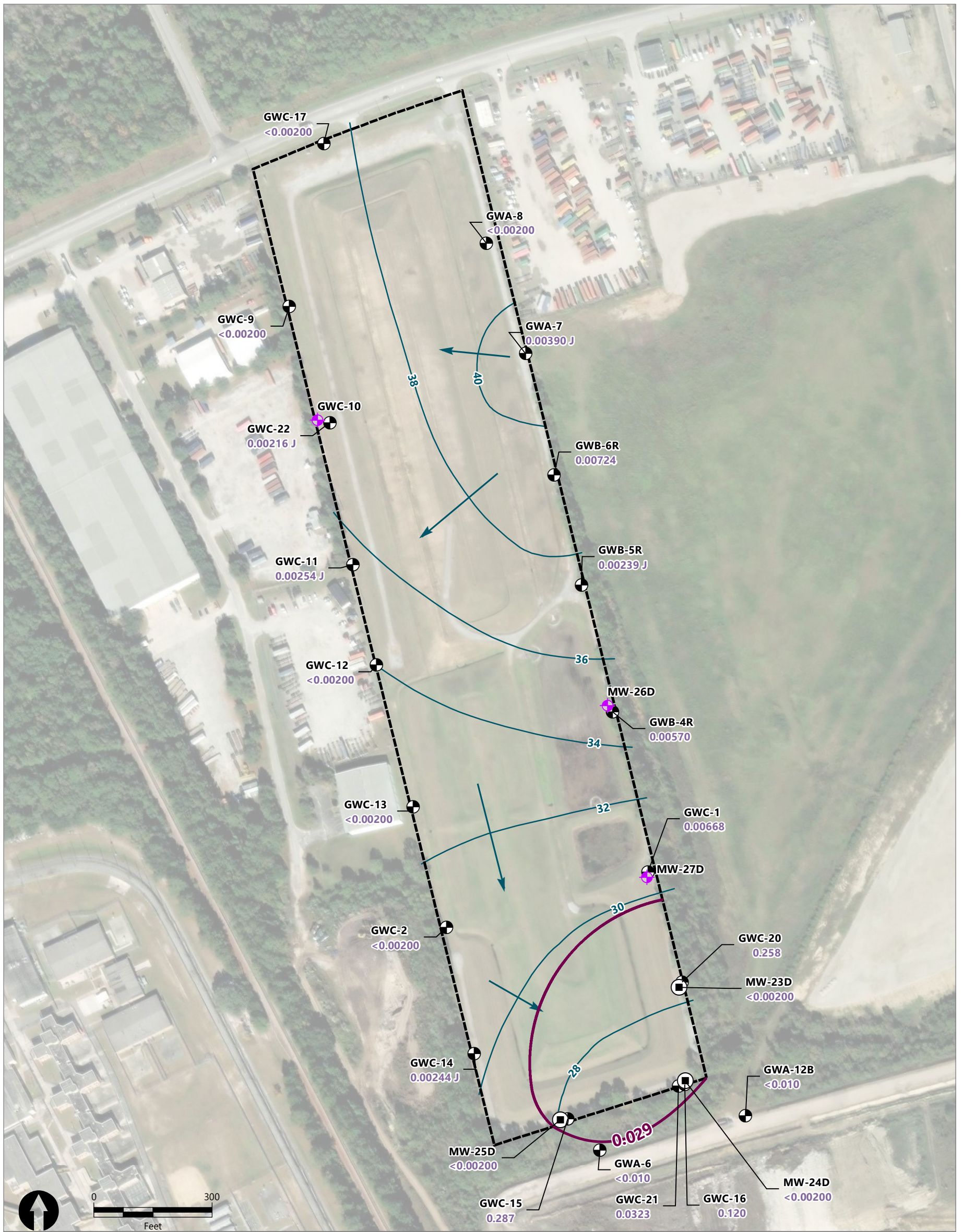
- LEGEND**
-  PROPERTY BOUNDARY
 -  POTENTIOMETRIC SURFACE CONTOUR
 -  GROUNDWAER FLOW DIRECTION
 -  DETECTION MONITORING WELL
 -  PIEZOMETER
 -  ASSESSMENT WELL

- NOTES:**
1. AERIAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED APRIL 15, 2023.
 2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
 3. PIEZOMETER GWC-10 NOT USED TO CALCULATE POTENTIOMETRIC SURFACE.



2023 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT





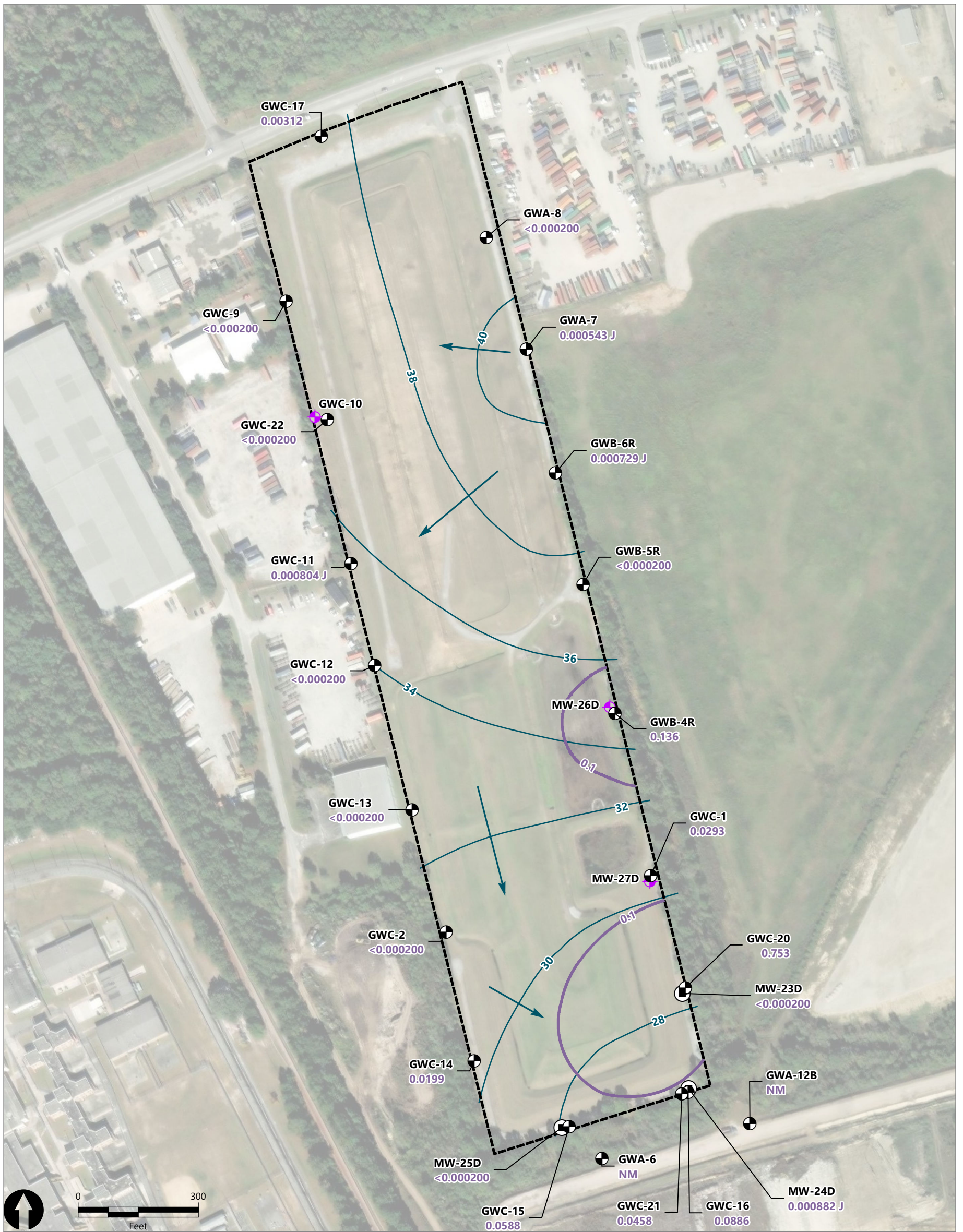
LEGEND:

- Site Boundary
- ⊕ Detection Monitoring Well
- ⊗ Assessment Monitoring Well
- ◆ Piezometer
- ➔ Groundwater Flow Direction
- Groundwater Contour (feet NAVD88)
- Arsenic Isoconcentration Contour

Well ID
Arsenic Concentration

NOTES:

1. Arsenic and groundwater elevation data are from the August 2023 routine semiannual sampling event. Groundwater contours were provided by Atlantic Coast Consulting, Inc. *2023 Semiannual Groundwater Monitoring and Corrective Action Report*. Grumman Road Private Industrial Landfill. Prepared for Georgia Power Company. February 2024.
 2. SRIL arsenic data (wells GWA-6 and GWA-12B) are from the SRIL August 2023 semiannual sampling event. (Source: Civil & Environmental Consultants, Inc., 2023. Letter to: Nicholas Webber, Republic Services. Regarding: 2nd 2023 Semiannual Groundwater Statistical Analysis Report. December 4, 2023.)
 3. Concentrations are reported in mg/L.
 4. Site background concentration for arsenic is 0.029 mg/L and is the site-specific groundwater protection standard.
 5. The groundwater protection standard was calculated using data through the August 2023 sampling event.
 6. MW-23D, MW-24D, and MW-25D were not used to create the isoconcentration.
 7. Piezometers may be needed for constituent specific site characterization.
 8. Aerial imagery is from Esri basemap service (source date: November 18, 2022).
- <: Indicates the substance was not detected above the relevant laboratory method detection limit.
 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 is qualified by the laboratory as an estimated number.
 mg/L: milligram per liter
 NAVD88: North American Vertical Datum of 1988
 SRIL: Savannah Regional Industrial Landfill



LEGEND:

- Site Boundary
 - ⊕ Detection Monitoring Well
 - ⊙ Assessment Monitoring Well
 - ⊕ Piezometer
 - ➔ Groundwater Flow Direction
 - Groundwater Contour (feet NAVD88)
 - Molybdenum Isoconcentration Contour
- Well ID**
Molybdenum Concentration

NOTES:

1. Molybdenum and groundwater elevation data are from the February 2023 sampling event. Groundwater contours were provided by Atlantic Coast Consulting, Inc. 2023 Annual Groundwater Monitoring and Corrective Action Report. Grumman Road Private Industrial Landfill. Prepared for Georgia Power Company. February 2024.
 2. Concentrations are reported in mg/L.
 3. The groundwater protection standard for molybdenum is 0.1 mg/L.
 4. MW-23D, MW-24D, and MW-25D were not used to create the isoconcentration.
 5. The contour lines are extended to the south based on the most recent available data from two nearby Savannah Regional Industrial Landfill wells, GWA-6 and GWA-12B (August 2020).
 6. Piezometers may be sampled as needed for constituent specific site characterization.
 7. Aerial imagery is from Esri basemap service (source date: November 18, 2022).
- <: Indicates the substance was not detected above the relevant laboratory method detection limit.
 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 is qualified by the laboratory as an estimated number.
 mg/L: milligrams per liter
 NAVD88: North American Vertical Datum of 1988
 NM: not measured

APPENDICES

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

APPENDIX A

Laboratory Analytical and Field Sampling Reports

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

APPENDIX A

*Laboratory Analytical Reports
August 2023 Monitoring Event*

October 26, 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: 635308

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2023. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to report the reanalysis data for Arsenic.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Sample "KRA-GWA-7" nitric bottles did not hold preservation. HNO3 Lot#3944975BP was added 635308001(KRA-GWA-7), 635308016(KRA-GWA-7). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
635308001	KRA-GWA-7	Ground Water	28/08/23 16:35	30/08/23 09:33
635308002	KRA-GWA-8	Ground Water	28/08/23 17:07	30/08/23 09:33
635308003	KRA-GWB-4R	Ground Water	29/08/23 14:15	30/08/23 09:33
635308004	KRA-GWB-5R	Ground Water	29/08/23 12:35	30/08/23 09:33
635308005	KRA-GWB-6R	Ground Water	29/08/23 11:15	30/08/23 09:33
635308006	KRA-GWC-1	Ground Water	29/08/23 15:40	30/08/23 09:33
635308007	KRA-GWC-2	Ground Water	29/08/23 15:05	30/08/23 09:33
635308008	KRA-GWC-9	Ground Water	29/08/23 09:25	30/08/23 09:33
635308009	KRA-GWC-13	Ground Water	29/08/23 10:45	30/08/23 09:33
635308010	KRA-GWC-17	Ground Water	29/08/23 09:05	30/08/23 09:33
635308011	KRA-GWC-22	Ground Water	29/08/23 13:06	30/08/23 09:33
635308012	KRA-GRL-FD-01	Ground Water	29/08/23 12:00	30/08/23 09:33
635308013	KRA-GRL-FD-02	Ground Water	29/08/23 12:00	30/08/23 09:33
635308014	KRA-GRL-FB-01	Ground Water	29/08/23 10:50	30/08/23 09:33

635308015 KRA-GRL-EB-04 Ground Water 29/08/23 14:10 30/08/23 09:33

635308016 KRA-GWA-7 Ground Water 28/08/23 16:35 30/08/23 09:33

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.

Prep Methods and Prep Dates

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	01-SEP-2023
SW846 3005A	26-SEP-2023
SW846 7470A Prep	05-SEP-2023
SW846 7470A Prep	30-AUG-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	30-AUG-2023
EPA 300.0	31-AUG-2023
SM 2540C	01-SEP-2023
SW846 3005A/6020B	11-SEP-2023
SW846 3005A/6020B	12-SEP-2023
SW846 3005A/6020B	13-SEP-2023
SW846 3005A/6020B	27-SEP-2023
SW846 7470A	06-SEP-2023
SW846 7470A	31-AUG-2023

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,

A handwritten signature in black ink that reads "Erin J. Trent". The signature is written in a cursive style with a large, prominent "E" and "T".

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: 635308 GEL Work Order: 635308

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
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- 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.
- 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: October 26, 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: 635308001 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-23 16:35
Receive Date: 30-AUG-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		91.9	1.34	4.00	mg/L		20	HXC1	08/31/23	1359	2485266	1
Fluoride	U	ND	0.0330	0.100	mg/L		1	HXC1	08/30/23	1511	2485266	2
Sulfate		6.57	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	AXS5	09/06/23	1438	2487099	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.00390	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1324	2499097	4
Boron		7.01	0.520	1.50	mg/L	1.00	100	PRB	09/12/23	1450	2485191	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1024	2485191	6
Calcium		3.72	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0139	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00156	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.137	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2003	2485191	7
Barium		0.177	0.000670	0.00400	mg/L	1.00	1					
Lead	J	0.00170	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000543	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					
Zinc	J	0.00851	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1225	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1450	4.76	20.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/05/23	1305	2487095

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 26, 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: 635308001 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	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 26, 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: GPC00102
Sample ID: 635308002	Client ID: GPC001
Matrix: WG	
Collect Date: 28-AUG-23 17:07	
Receive Date: 30-AUG-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	J	0.0498	0.0330	0.100	mg/L		1	HXC1	08/30/23	1643	2485266	1
Chloride		10.1	0.335	1.00	mg/L		5	HXC1	08/31/23	1532	2485266	2
Sulfate		62.9	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	AXS5	08/31/23	1704	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.194	0.0260	0.0750	mg/L	1.00	5	PRB	09/12/23	1512	2485191	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2028	2485191	5
Barium		0.0483	0.000670	0.00400	mg/L	1.00	1					
Lead	J	0.000566	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					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1043	2485191	6
Calcium		13.6	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					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium	J	0.0148	0.00330	0.0200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1326	2499097	7
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1239	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		138	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 26, 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: 635308002 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	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: October 26, 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: 635308003 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 14:15
Receive Date: 30-AUG-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	U	ND	0.0330	0.100	mg/L		1	HXC1	08/30/23	1714	2485266	1
Chloride		66.0	2.68	8.00	mg/L		40	HXC1	08/31/23	1603	2485266	2
Sulfate		551	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	AXS5	08/31/23	1706	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	J	0.000304	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1241	2485191	4
Arsenic		0.00570	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1348	2499097	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1046	2485191	6
Chromium	J	0.00389	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0122	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0191	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.0201	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2031	2485191	7
Barium		0.160	0.000670	0.00400	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.136	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00261	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					
Boron		4.35	0.260	0.750	mg/L	1.00	50	PRB	09/12/23	1515	2485191	8
Calcium		133	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1290	4.76	20.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190

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Company : Georgia Power Company
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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: 635308003 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	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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Report Date: October 26, 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: 635308004 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 12:35
Receive Date: 30-AUG-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	U	ND	0.0330	0.100	mg/L		1	HXC1	08/30/23	1745	2485266	1
Chloride		61.8	2.68	8.00	mg/L		40	HXC1	08/31/23	1633	2485266	2
Sulfate		299	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	AXS5	08/31/23	1707	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2035	2485191	4
Barium		0.0643	0.000670	0.00400	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					
Arsenic	J	0.00239	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1350	2499097	5
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1243	2485191	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1049	2485191	7
Calcium		46.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00139	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium	J	0.00917	0.00330	0.0200	mg/L	1.00	1					
Boron		3.69	0.260	0.750	mg/L	1.00	50	PRB	09/12/23	1519	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		644	4.76	20.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Company : Georgia Power Company
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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: 635308004 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	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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Report Date: October 26, 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: 635308005	Client ID: GPCC001
Matrix: WG	
Collect Date: 29-AUG-23 11:15	
Receive Date: 30-AUG-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	J	0.0523	0.0330	0.100	mg/L		1	HXC1	08/30/23	1816	2485266	1
Chloride		53.2	6.70	20.0	mg/L		100	HXC1	08/31/23	1704	2485266	2
Sulfate		763	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	AXS5	08/31/23	1712	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.00724	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1352	2499097	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1052	2485191	5
Chromium	J	0.00349	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0709	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.0226	0.00330	0.0200	mg/L	1.00	1					
Boron		5.92	0.260	0.750	mg/L	1.00	50	PRB	09/12/23	1522	2485191	6
Calcium		120	4.00	10.0	mg/L	1.00	50					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2039	2485191	7
Barium		0.0196	0.000670	0.00400	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000729	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00204	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc		0.0406	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1245	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1320	4.76	20.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190

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Report Date: October 26, 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: 635308005 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	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: October 26, 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: 635308006 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 15:40
Receive Date: 30-AUG-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		64.7	0.665	2.00	mg/L		5	HXC1	08/31/23	1735	2485266	1
Chloride		7.48	0.0670	0.200	mg/L		1	HXC1	08/30/23	1847	2485266	2
Fluoride	J	0.0596	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	AXS5	08/31/23	1714	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1247	2485191	4
Arsenic		0.00668	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1354	2499097	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1054	2485191	6
Chromium	J	0.00337	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	0.0146	0.00330	0.0200	mg/L	1.00	1					
Boron		0.653	0.0260	0.0750	mg/L	1.00	5	PRB	09/12/23	1526	2485191	7
Calcium		53.9	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2042	2485191	8
Barium		0.0637	0.000670	0.00400	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.0293	0.000200	0.00100	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					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		272	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095

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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-1 Project: GPCC00102
Sample ID: 635308006 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	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: October 26, 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: 635308007 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 15:05
Receive Date: 30-AUG-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		4.97	0.0670	0.200	mg/L		1	HXC1	08/30/23	2019	2485266	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		10.5	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1716	2485243	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1356	2499097	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2046	2485191	4
Barium		0.0452	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	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					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1248	2485191	5
Boron		0.0163	0.00520	0.0150	mg/L	1.00	1	PRB	09/12/23	1530	2485191	6
Calcium	J	0.165	0.0800	0.200	mg/L	1.00	1					
Vanadium	J	0.00777	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	9.00	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095

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Report Date: October 26, 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: 635308007	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	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: October 26, 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: GPC00102
Sample ID: 635308008	Client ID: GPC001
Matrix: WG	
Collect Date: 29-AUG-23 09:25	
Receive Date: 30-AUG-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		21.1	0.335	1.00	mg/L		5	HXC1	08/31/23	1806	2485266	1
Fluoride		0.115	0.0330	0.100	mg/L		1	HXC1	08/30/23	2050	2485266	2
Sulfate		15.7	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	AXS5	08/31/23	1717	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2049	2485191	4
Barium		0.138	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Calcium		4.38	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000744	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					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1250	2485191	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1358	2499097	6
Boron		0.0160	0.00520	0.0150	mg/L	1.00	1	PRB	09/12/23	1533	2485191	7
Vanadium	J	0.0103	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095

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Certificate of Analysis

Report Date: October 26, 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: 635308008 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	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

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Certificate of Analysis

Report Date: October 26, 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: 635308009	Client ID: GPCC001
Matrix: WG	
Collect Date: 29-AUG-23 10:45	
Receive Date: 30-AUG-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		47.5	0.665	2.00	mg/L		5	HXC1	08/31/23	1837	2485266	1
Chloride		7.34	0.0670	0.200	mg/L		1	HXC1	08/30/23	2121	2485266	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	AXS5	08/31/23	1719	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1256	2485191	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1403	2499097	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1108	2485191	6
Calcium		3.64	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	J	0.0188	0.00330	0.0200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2053	2485191	7
Barium		0.0712	0.000670	0.00400	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	0.0194	0.00330	0.0200	mg/L	1.00	1					
Boron		0.296	0.0260	0.0750	mg/L	1.00	5	PRB	09/12/23	1537	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		62.0	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Certificate of Analysis

Report Date: October 26, 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: 635308009 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	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: October 26, 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: 635308010 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 09:05
Receive Date: 30-AUG-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		0.572	0.0330	0.100	mg/L		1	HXC1	08/30/23	2152	2485266	1
Chloride		476	6.70	20.0	mg/L		100	HXC1	08/31/23	2009	2485266	2
Sulfate		444	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	AXS5	08/31/23	1721	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1405	2499097	4
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1258	2485191	5
Vanadium	J	0.0108	0.00330	0.0200	mg/L	1.00	1	PRB	09/13/23	1111	2485191	6
Boron		1.77	0.104	0.300	mg/L	1.00	20	PRB	09/12/23	1552	2485191	7
Calcium		86.5	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2104	2485191	8
Barium		0.0295	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00174	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00268	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00502	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00312	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	0.00535	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1270	23.8	100	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Certificate of Analysis

Report Date: October 26, 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: 635308010 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	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: October 26, 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: 635308011	Client ID: GPCC001
Matrix: WG	
Collect Date: 29-AUG-23 13:06	
Receive Date: 30-AUG-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		521	6.70	20.0	mg/L		100	HXC1	08/31/23	2040	2485266	1
Sulfate		1010	13.3	40.0	mg/L		100					
Fluoride	J	0.0758	0.0330	0.100	mg/L		1	HXC1	08/30/23	2223	2485266	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1723	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		9.28	0.520	1.50	mg/L	1.00	100	PRB	09/12/23	1600	2485191	4
Calcium		147	8.00	20.0	mg/L	1.00	100					
Arsenic	J	0.00216	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1407	2499097	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2108	2485191	6
Barium		0.127	0.000670	0.00400	mg/L	1.00	1					
Lead	J	0.000511	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	0.00540	0.00330	0.0200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1114	2485191	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000817	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.0353	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1300	2485191	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2300	23.8	100	mg/L			CH6	09/01/23	1416	2486363	9

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190

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Certificate of Analysis

Report Date: October 26, 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:	635308011	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	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: October 26, 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: 635308012	Client ID: GPCC001
Matrix: WG	
Collect Date: 29-AUG-23 12:00	
Receive Date: 30-AUG-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		7.73	0.0670	0.200	mg/L		1	HXC1	08/30/23	2355	2485266	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		46.6	0.665	2.00	mg/L		5	HXC1	08/31/23	2213	2485266	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1724	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/12/23	1603	2485191	4
Boron		0.306	0.0260	0.0750	mg/L	1.00	5					
Calcium		3.70	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Vanadium	J	0.0194	0.0165	0.100	mg/L	1.00	5					
Zinc	J	0.0310	0.0165	0.100	mg/L	1.00	5					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1302	2485191	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2111	2485191	6
Barium		0.0708	0.000670	0.00400	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					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1409	2499097	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		69.0	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190

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Certificate of Analysis

Report Date: October 26, 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: 635308012 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	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

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Certificate of Analysis

Report Date: October 26, 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: 635308013 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-23 12:00
Receive Date: 30-AUG-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		7.45	0.0670	0.200	mg/L		1	HXC1	08/31/23	0026	2485266	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		65.6	0.665	2.00	mg/L		5	HXC1	08/31/23	2244	2485266	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1726	2485243	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5	PRB	09/12/23	1607	2485191	4
Boron		0.658	0.0260	0.0750	mg/L	1.00	5					
Calcium		54.5	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Vanadium	U	ND	0.0165	0.100	mg/L	1.00	5					
Zinc	U	ND	0.0165	0.100	mg/L	1.00	5					
Arsenic		0.00674	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1411	2499097	5
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1304	2485191	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2115	2485191	7
Barium		0.0658	0.000670	0.00400	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.0297	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		271	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Certificate of Analysis

Report Date: October 26, 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: 635308013 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	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

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Certificate of Analysis

Report Date: October 26, 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: 635308014 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-23 10:50
Receive Date: 30-AUG-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	0.164	0.0670	0.200	mg/L		1	HXC1	08/31/23	0057	2485266	1
Fluoride		0.389	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	AXS5	08/31/23	1728	2485243	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/12/23	1611	2485191	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	J	0.113	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	J	0.00756	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1306	2485191	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1413	2499097	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2118	2485191	6
Barium	J	0.000919	0.000670	0.00400	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					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Certificate of Analysis

Report Date: October 26, 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: 635308014 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	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: October 26, 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: 635308015	Client ID: GPCC001
Matrix: WQ	
Collect Date: 29-AUG-23 14:10	
Receive Date: 30-AUG-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	HXC1	08/31/23	0230	2485266	1
Fluoride		0.244	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	0.000670	0.000200	mg/L	1.00	1	AXS5	08/31/23	1733	2485243	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1415	2499097	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/12/23	1614	2485191	4
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	J	0.0103	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1308	2485191	5
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1	PRB	09/13/23	1141	2485191	6
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	09/11/23	2122	2485191	7
Barium	U	ND	0.000670	0.00400	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					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/01/23	1416	2486363	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	08/30/23	1345	2485240

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Certificate of Analysis

Report Date: October 26, 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: 635308015 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	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

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Certificate of Analysis

Report Date: October 26, 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: 635308016 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-23 16:35
Receive Date: 30-AUG-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	AXS5	09/06/23	1439	2487099	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/11/23	2126	2485191	2
Barium		0.186	0.000670	0.00400	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		0.00597	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Zinc	J	0.00414	0.00330	0.0200	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1	PRB	09/13/23	1310	2485191	3
Arsenic	J	0.00306	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/23	1417	2499097	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/13/23	1133	2485191	5
Calcium		3.85	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0119	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00131	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Vanadium		0.140	0.00330	0.0200	mg/L	1.00	1					
Boron		7.25	0.520	1.50	mg/L	1.00	100	PRB	09/12/23	1618	2485191	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JD2	09/01/23	0710	2485190
SW846 3005A	ICP-MS 3005A PREP	SD	09/26/23	1525	2499095
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/05/23	1305	2487095

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	
6	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 26, 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:	635308016	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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QC Summary

Report Date: October 26, 2023

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

Contact: Kristen Jurinko

Workorder: 635308

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2485266										
QC1205503933	635308001	DUP									
Chloride		91.9		92.0	mg/L	0.0739		(0%-20%)	HXC1	08/31/23	14:30
Fluoride	U	ND	U	ND	mg/L	N/A				08/30/23	15:41
Sulfate		6.57		6.53	mg/L	0.698		(0%-20%)			
QC1205503935	635308011	DUP									
Chloride		521		522	mg/L	0.128		(0%-20%)		08/31/23	21:11
Fluoride	J	0.0758	J	0.0755	mg/L	0.397	^	(+/-0.100)		08/30/23	22:54
Sulfate		1010		1020	mg/L	0.623		(0%-20%)		08/31/23	21:11
QC1205503932	LCS										
Chloride	5.00			4.70	mg/L		94	(90%-110%)		08/30/23	14:40
Fluoride	2.50			2.41	mg/L		96.6	(90%-110%)			
Sulfate	10.0			9.64	mg/L		96.4	(90%-110%)			
QC1205503931	MB										
Chloride			U	ND	mg/L					08/30/23	14:10
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						

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QC Summary

Workorder: 635308

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2485266											
QC1205503934 635308001 PS											
Chloride	5.00	4.60		10.0	mg/L		109	(90%-110%)	HXC1	08/31/23	15:01
Fluoride	2.50	U	ND	2.40	mg/L		95.9	(90%-110%)		08/30/23	16:12
Sulfate	10.0	6.57		17.1	mg/L		105	(90%-110%)			
QC1205503936 635308011 PS											
Chloride	5.00	5.21		10.7	mg/L		110	(90%-110%)		08/31/23	21:42
Fluoride	2.50	J	0.0758	2.44	mg/L		94.4	(90%-110%)		08/30/23	23:24
Sulfate	10.0	10.1		20.5	mg/L		104	(90%-110%)		08/31/23	21:42
Metals Analysis - ICPMS											
Batch 2485191											
QC1205503796 LCS											
Antimony	0.0500			0.0493	mg/L		98.5	(80%-120%)	PRB	09/11/23	19:59
Barium	0.0500			0.0508	mg/L		102	(80%-120%)			
Beryllium	0.0500			0.0473	mg/L		94.6	(80%-120%)			
Boron	0.100			0.0991	mg/L		99.1	(80%-120%)		09/12/23	15:56
Cadmium	0.0500			0.0504	mg/L		101	(80%-120%)		09/13/23	12:24
Calcium	2.00			2.02	mg/L		101	(80%-120%)		09/11/23	19:59
Chromium	0.0500			0.0478	mg/L		95.5	(80%-120%)			
Cobalt	0.0500			0.0456	mg/L		91.1	(80%-120%)			

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QC Summary

Workorder: 635308

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2485191										
Lead	0.0500			0.0490	mg/L		98	(80%-120%)	PRB	09/11/23	19:59
Lithium	0.0500			0.0449	mg/L		89.9	(80%-120%)			
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)			
Selenium	0.0500			0.0458	mg/L		91.7	(80%-120%)			
Thallium	0.0500			0.0465	mg/L		93.1	(80%-120%)			
Vanadium	0.0500			0.0510	mg/L		102	(80%-120%)		09/12/23	15:56
Zinc	0.0500			0.0450	mg/L		89.9	(80%-120%)		09/11/23	19:59
QC1205503795	MB										
Antimony			U	ND	mg/L					09/11/23	19:55
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L					09/12/23	14:43
Cadmium			U	ND	mg/L					09/13/23	12:22
Calcium			U	ND	mg/L					09/11/23	19:55
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						

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QC Summary

Workorder: 635308

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2485191										
Lead			U	ND	mg/L				PRB	09/11/23	19:55
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					09/12/23	14:43
Zinc			U	ND	mg/L					09/11/23	19:55
QC1205503797 635308001 MS											
Antimony	0.0500	U	ND	0.0505	mg/L		100	(75%-125%)		09/11/23	20:06
Barium	0.0500		0.177	0.240	mg/L		127*	(75%-125%)			
Beryllium	0.0500	U	ND	0.0521	mg/L		104	(75%-125%)		09/13/23	10:27
Boron	0.100		7.01	7.67	mg/L		N/A	(75%-125%)		09/12/23	14:53
Cadmium	0.0500	U	ND	0.0512	mg/L		102	(75%-125%)		09/13/23	12:27
Calcium	2.00		3.72	5.92	mg/L		110	(75%-125%)		09/13/23	10:27
Chromium	0.0500		0.0139	0.0645	mg/L		101	(75%-125%)			
Cobalt	0.0500		0.00156	0.0492	mg/L		95.3	(75%-125%)			

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QC Summary

Workorder: 635308

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2485191										
Lead	0.0500	J	0.00170	0.0488	mg/L		94.3	(75%-125%)	PRB	09/11/23	20:06
Lithium	0.0500	U	ND	0.0514	mg/L		99.1	(75%-125%)		09/13/23	10:27
Molybdenum	0.0500	J	0.000543	0.0561	mg/L		111	(75%-125%)		09/11/23	20:06
Selenium	0.0500		0.00544	0.0500	mg/L		89.2	(75%-125%)			
Thallium	0.0500	U	ND	0.0446	mg/L		89.2	(75%-125%)			
Vanadium	0.0500		0.137	0.196	mg/L		119	(75%-125%)		09/13/23	10:27
Zinc	0.0500	J	0.00851	0.0531	mg/L		89.3	(75%-125%)		09/11/23	20:06
QC1205503798	635308001	MSD									
Antimony	0.0500	U	ND	0.0509	mg/L	0.695	101	(0%-20%)		09/11/23	20:10
Barium	0.0500		0.177	0.247	mg/L	2.59	139*	(0%-20%)			
Beryllium	0.0500	U	ND	0.0513	mg/L	1.64	102	(0%-20%)		09/13/23	10:29
Boron	0.100		7.01	7.62	mg/L	0.647	N/A	(0%-20%)		09/12/23	14:57
Cadmium	0.0500	U	ND	0.0503	mg/L	1.87	101	(0%-20%)		09/13/23	12:29
Calcium	2.00		3.72	5.94	mg/L	0.242	111	(0%-20%)		09/13/23	10:29
Chromium	0.0500		0.0139	0.0628	mg/L	2.56	98	(0%-20%)			
Cobalt	0.0500		0.00156	0.0482	mg/L	2.21	93.2	(0%-20%)			

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QC Summary

Workorder: 635308

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2485191										
Lead	0.0500	J	0.00170	0.0476	mg/L	2.66	91.7	(0%-20%)	PRB	09/11/23	20:10
Lithium	0.0500	U	ND	0.0496	mg/L	3.63	95.4	(0%-20%)		09/13/23	10:29
Molybdenum	0.0500	J	0.000543	0.0542	mg/L	3.51	107	(0%-20%)		09/11/23	20:10
Selenium	0.0500		0.00544	0.0510	mg/L	1.96	91.2	(0%-20%)			
Thallium	0.0500	U	ND	0.0447	mg/L	0.202	89.4	(0%-20%)			
Vanadium	0.0500		0.137	0.193	mg/L	1.71	113	(0%-20%)		09/13/23	10:29
Zinc	0.0500	J	0.00851	0.0543	mg/L	2.23	91.7	(0%-20%)		09/11/23	20:10
QC1205513605	635308001 PS										
Barium	50.0		177	243	ug/L		133*	(75%-125%)		09/11/23	20:13
QC1205503799	635308001 SDILT										
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/11/23	20:17
Barium			177	36.5	ug/L	3.06		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/13/23	10:35
Boron			70.1	J	13.6	ug/L	3.26	(0%-20%)		09/12/23	15:01
Cadmium		U	ND	J	0.339	ug/L	N/A	(0%-20%)		09/13/23	12:33
Calcium			3720	793	ug/L	6.55		(0%-20%)		09/13/23	10:35
Chromium			13.9	J	3.11	ug/L	12.3	(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	2485191										
Cobalt		1.56	J	0.347	ug/L	11.4		(0%-20%)	PRB	09/13/23	10:35
Lead	J	1.70	U	ND	ug/L	N/A		(0%-20%)		09/11/23	20:17
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/13/23	10:35
Molybdenum	J	0.543	U	ND	ug/L	N/A		(0%-20%)		09/11/23	20:17
Selenium		5.44	U	ND	ug/L	N/A		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Vanadium		137		31.6	ug/L	15.8		(0%-20%)		09/13/23	10:35
Zinc	J	8.51	J	3.44	ug/L	102		(0%-20%)		09/11/23	20:17
<hr/>											
Batch	2499097										
QC1205529440	LCS										
Arsenic	0.0500			0.0499	mg/L		99.7	(80%-120%)	PRB	09/27/23	13:22
QC1205529439	MB										
Arsenic			U	ND	mg/L					09/27/23	13:20
QC1205529441	635308002 MS										
Arsenic	0.0500	U	ND	0.0472	mg/L		91.1	(75%-125%)		09/27/23	13:28
QC1205529442	635308002 MSD										
Arsenic	0.0500	U	ND	0.0466	mg/L	1.38	89.8	(0%-20%)		09/27/23	13:30
QC1205529443	635308002 SDILT										
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/27/23	13:46

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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	2485243										
QC1205503896	635100001	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		AXS5	08/31/23	16:56
QC1205503895	LCS										
Mercury	0.00200				0.00198	mg/L	99.2	(80%-120%)		08/31/23	16:52
QC1205503894	MB										
Mercury			U		ND	mg/L				08/31/23	16:47
QC1205503897	635100001	MS									
Mercury	0.00200	U	ND		0.00216	mg/L	105	(75%-125%)		08/31/23	16:57
QC1205503898	635100001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/31/23	16:59
Batch	2487099										
QC1205507181	634701001	DUP									
Mercury		U	ND	U	ND	mg/L	N/A		AXS5	09/06/23	14:13
QC1205507180	LCS										
Mercury	0.00200				0.00217	mg/L	108	(80%-120%)		09/06/23	14:04
QC1205507179	MB										
Mercury			U		ND	mg/L				09/06/23	14:03
QC1205507182	634701001	MS									
Mercury	0.00200	U	ND		0.00216	mg/L	108	(75%-125%)		09/06/23	14:14
QC1205507183	634701001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/06/23	14:16

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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	2486363										
QC1205505901	635224020	DUP									
Total Dissolved Solids		180		198	mg/L	9.52*		(0%-5%)	CH6	09/01/23	14:16
QC1205505900	LCS										
Total Dissolved Solids	300			303	mg/L		101	(95%-105%)		09/01/23	14:16
QC1205505899	MB										
Total Dissolved Solids			U	ND	mg/L					09/01/23	14:16

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.

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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											

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 #: 635308**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2485191

Preparation Method: SW846 3005A

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

Preparation Batch: 2485190

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308001	KRA-GWA-7
635308002	KRA-GWA-8
635308003	KRA-GWB-4R
635308004	KRA-GWB-5R
635308005	KRA-GWB-6R
635308006	KRA-GWC-1
635308007	KRA-GWC-2
635308008	KRA-GWC-9
635308009	KRA-GWC-13
635308010	KRA-GWC-17
635308011	KRA-GWC-22
635308012	KRA-GRL-FD-01
635308013	KRA-GRL-FD-02
635308014	KRA-GRL-FB-01
635308015	KRA-GRL-EB-04
635308016	KRA-GWA-7
1205503795	Method Blank (MB) ICP-MS
1205503796	Laboratory Control Sample (LCS)
1205503799	635308001(KRA-GWA-7L) Serial Dilution (SD)
1205503797	635308001(KRA-GWA-7S) Matrix Spike (MS)
1205503798	635308001(KRA-GWA-7SD) Matrix Spike Duplicate (MSD)
1205513605	635308001(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 also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205503797 (KRA-GWA-7MS)	Barium	127* (75%-125%)
1205503798 (KRA-GWA-7MSD)	Barium	139* (75%-125%)

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205513605 (KRA-GWA-7PS)	Barium	133* (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 635308001 (KRA-GWA-7), 635308002 (KRA-GWA-8), 635308003 (KRA-GWB-4R), 635308004 (KRA-GWB-5R), 635308005 (KRA-GWB-6R), 635308006 (KRA-GWC-1), 635308009 (KRA-GWC-13), 635308010 (KRA-GWC-17), 635308011 (KRA-GWC-22), 635308012 (KRA-GRL-FD-01), 635308013 (KRA-GRL-FD-02) and 635308016 (KRA-GWA-7) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 635308012 (KRA-GRL-FD-01) and 635308013 (KRA-GRL-FD-02) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	635308									
	001	002	003	004	005	006	009	010	011	012
Arsenic	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Beryllium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Boron	100X	5X	50X	50X	50X	5X	5X	20X	100X	5X
Calcium	1X	1X	50X	1X	50X	5X	1X	20X	100X	5X
Chromium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Cobalt	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lithium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Selenium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Vanadium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Zinc	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X

Analyte	635308	
	013	016
Arsenic	5X	1X
Beryllium	5X	1X
Boron	5X	100X
Calcium	5X	1X
Chromium	5X	1X
Cobalt	5X	1X
Lithium	5X	1X
Selenium	5X	1X
Vanadium	5X	1X
Zinc	5X	1X

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2499097

Preparation Method: SW846 3005A

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

Preparation Batch: 2499095

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308001	KRA-GWA-7
635308002	KRA-GWA-8
635308003	KRA-GWB-4R
635308004	KRA-GWB-5R
635308005	KRA-GWB-6R
635308006	KRA-GWC-1
635308007	KRA-GWC-2
635308008	KRA-GWC-9
635308009	KRA-GWC-13
635308010	KRA-GWC-17
635308011	KRA-GWC-22
635308012	KRA-GRL-FD-01
635308013	KRA-GRL-FD-02
635308014	KRA-GRL-FB-01
635308015	KRA-GRL-EB-04
635308016	KRA-GWA-7
1205529439	Method Blank (MB) ICP-MS
1205529440	Laboratory Control Sample (LCS)
1205529443	635308002(KRA-GWA-8L) Serial Dilution (SD)
1205529441	635308002(KRA-GWA-8S) Matrix Spike (MS)
1205529442	635308002(KRA-GWA-8SD) 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.

Miscellaneous Information

Additional Comments

There was concern about higher than historical arsenic results. Reanalysis confirmed the concerns and is believed to have been caused by an unknown contaminate during prep.

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2485243

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2485240

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308002	KRA-GWA-8
635308003	KRA-GWB-4R
635308004	KRA-GWB-5R
635308005	KRA-GWB-6R
635308006	KRA-GWC-1
635308007	KRA-GWC-2
635308008	KRA-GWC-9
635308009	KRA-GWC-13
635308010	KRA-GWC-17
635308011	KRA-GWC-22
635308012	KRA-GRL-FD-01
635308013	KRA-GRL-FD-02
635308014	KRA-GRL-FB-01
635308015	KRA-GRL-EB-04
1205503894	Method Blank (MB)CVAA
1205503895	Laboratory Control Sample (LCS)
1205503898	635100001(NonSDGL) Serial Dilution (SD)
1205503896	635100001(NonSDGD) Sample Duplicate (DUP)
1205503897	635100001(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# 40

Analytical Batch: 2487099

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2487095

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308001	KRA-GWA-7
635308016	KRA-GWA-7
1205507179	Method Blank (MB)CVAA
1205507180	Laboratory Control Sample (LCS)
1205507183	634701001(NonSDGL) Serial Dilution (SD)
1205507181	634701001(NonSDGD) Sample Duplicate (DUP)
1205507182	634701001(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# 33

Analytical Batch: 2485266

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308001	KRA-GWA-7
635308002	KRA-GWA-8
635308003	KRA-GWB-4R
635308004	KRA-GWB-5R
635308005	KRA-GWB-6R
635308006	KRA-GWC-1
635308007	KRA-GWC-2

635308008	KRA-GWC-9
635308009	KRA-GWC-13
635308010	KRA-GWC-17
635308011	KRA-GWC-22
635308012	KRA-GRL-FD-01
635308013	KRA-GRL-FD-02
635308014	KRA-GRL-FB-01
635308015	KRA-GRL-EB-04
1205503931	Method Blank (MB)
1205503932	Laboratory Control Sample (LCS)
1205503933	635308001(KRA-GWA-7) Sample Duplicate (DUP)
1205503934	635308001(KRA-GWA-7) Post Spike (PS)
1205503935	635308011(KRA-GWC-22) Sample Duplicate (DUP)
1205503936	635308011(KRA-GWC-22) 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 1205503933 (KRA-GWA-7DUP), 1205503934 (KRA-GWA-7PS), 1205503935 (KRA-GWC-22DUP), 1205503936 (KRA-GWC-22PS), 635308001 (KRA-GWA-7), 635308002 (KRA-GWA-8), 635308003 (KRA-GWB-4R), 635308004 (KRA-GWB-5R), 635308005 (KRA-GWB-6R), 635308006 (KRA-GWC-1), 635308008 (KRA-GWC-9), 635308009 (KRA-GWC-13), 635308010 (KRA-GWC-17), 635308011 (KRA-GWC-22), 635308012 (KRA-GRL-FD-01) and 635308013 (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	635308									
	001	002	003	004	005	006	008	009	010	011
Chloride	20X	5X	40X	40X	100X	1X	5X	1X	100X	100X
Sulfate	1X	5X	40X	40X	100X	5X	1X	5X	100X	100X

Analyte	635308	
	012	013
Sulfate	5X	5X

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2486363

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635308001	KRA-GWA-7
635308002	KRA-GWA-8
635308003	KRA-GWB-4R
635308004	KRA-GWB-5R
635308005	KRA-GWB-6R
635308006	KRA-GWC-1
635308007	KRA-GWC-2
635308008	KRA-GWC-9
635308009	KRA-GWC-13
635308010	KRA-GWC-17
635308011	KRA-GWC-22
635308012	KRA-GRL-FD-01
635308013	KRA-GRL-FD-02
635308014	KRA-GRL-FB-01
635308015	KRA-GRL-EB-04
1205505899	Method Blank (MB)
1205505900	Laboratory Control Sample (LCS)
1205505901	635224020(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	1205505901 (Non SDG 635224020DUP)	9.52* (0%-5%)

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 635308001 (KRA-GWA-7), 635308003 (KRA-GWB-4R), 635308004 (KRA-GWB-5R), 635308005 (KRA-GWB-6R), 635308010 (KRA-GWC-17) and 635308011 (KRA-GWC-22).

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.

635308 2035316

Page: 1 of 2
 Project #: _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____
GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Work Order Number: _____
 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. Schmitt
 ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (e)	Field Filtered (d)	Sample Matrix (e)	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-2023S2	
						Radiative (f) Yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	Metals *	Dissolved Metals *	EPA 6020, 6010, 7470		Radium 226 & 228 SW-846 9315, 9320
KRA-GWA-7	08/28/23	1635	G	Y	WG	N	N	7	✓	✓	✓	✓	
KRA-GWA-8	08/29/23	1707	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWB-4R	08/29/23	1415	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWB-5R	08/29/23	1236	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWB-6R	08/29/23	1115	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWC-1	08/29/23	1540	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWC-2	08/29/23	1505	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWC-9	08/29/23	0925	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWC-13	08/29/23	1045	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA-GWC-17	08/29/23	0905	G	N	WD	N	N	6	✓	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed) _____ Date 08/30/23 0933
 Received (Signed) _____ Date 08/30/23 0933

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

Fax Results: Yes No

Select Deliverable: C of A 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=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
 TSCA Regulated
 PCB = Polychlorinated biphenyls

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

Characteristic Hazards
 LW = Listed Waste (F, K, P and U-listed wastes)
 Waste code(s): _____

Listed Waste
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Other
 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 2

Project # _____

GEL Quote #: _____

COC Number ⁽¹⁾: _____

PO Number: _____

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: A. Schnitzler ACC
 Send Results To: SCS & ACC Contacts

Phone # 404-506-7116 Fax # _____

Sample Analysis Requested ⁽⁶⁾ (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*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 ⁽⁶⁾				Comments Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2023S2						
						Radionuclide (if Yes, please supply isotopic info)	(?) Known or Possible Hazards		EPA 300, SM 2540C Cl, F, SO4, TDS	Metals * EPA 6020, 6010, 7470	Dissolved Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320		NI	NI	NI	<- Preservative Type (6)		
KRA- GWC-22	08/29/23	1306	G	N	WG	N		6											
KRA- GRL-FD-01	08/29/23	---	G	N	WG	N		6											
KRA- GRL-FD-02	08/29/23	---	G	N	WG	N		6											
KRA- GRL-FB-01	08/29/23	1050	G	N	WQ	N		6											
KRA- GRL-EB-04	08/29/23	1410	G	N	WQ	N		6											
KRA-																			
KRA-																			
KRA-																			
KRA-																			
KRA-																			

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

Relinquished By (Signed) _____ Date 08/30/23 Time 0933

Received by (signed) Erin Trent Date 08/30/23 Time 0933

1. Erin Trent 08/30/23 0933

2. _____

3. _____

> 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,Cb,Li,Mo,Se,TH,V,Zn,Hg
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

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 = 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

TSCA Regulated
 PCB = Polychlorinated biphenyls

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.)

SAMPLE RECEIPT & REVIEW FORM

635316
635308

Client: GPCC		SDG/AR/COC/Work Order: ATP	
Received By: MVH		Date Received: 8/30/23	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other COOLR-2-1° COOLR-4-0° COOLR-1-1° COOLR-3-2° COOLR-5-1°	
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> 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 ≤ deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: IR2-21 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: GRA-EWA-7 (all in the bottles) * If Preservation added, both: _____
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): * HNO3 LOT #3944975 BP added			

PM (or PMA) review: Initials AT Date 8/31/23 Page 1 of 1

Amanda Turner

From: Amanda Turner
Sent: Thursday, August 31, 2023 2:37 PM
To: KNJURINK@SOUTHERNCO.COM; JABRAHAM@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation Issues (635308 and 635316)
Attachments: 635308 635316 COC.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

Notifying you that the nitric bottles for sample "KRA-GWA-7" on work orders 635308 and 635316 did not hold proper preservation. Proper preservation was added to the containers.
See attachment for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 26 October 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-04
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	2023-152
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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 25, 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: 635316

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 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. Sample "KRA-GWA-7" nitric bottles did not hold preservation. HNO3 Lot#3944975BP was added 635316001(KRA-GWA-7). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
635316001	KRA-GWA-7	Ground Water	28/08/23 16:35	30/08/23 09:33
635316002	KRA-GWA-8	Ground Water	28/08/23 17:07	30/08/23 09:33
635316003	KRA-GWB-4R	Ground Water	29/08/23 14:15	30/08/23 09:33
635316004	KRA-GWB-5R	Ground Water	29/08/23 12:35	30/08/23 09:33
635316005	KRA-GWB-6R	Ground Water	29/08/23 11:15	30/08/23 09:33
635316006	KRA-GWC-1	Ground Water	29/08/23 15:40	30/08/23 09:33
635316007	KRA-GWC-2	Ground Water	29/08/23 15:05	30/08/23 09:33
635316008	KRA-GWC-9	Ground Water	29/08/23 09:25	30/08/23 09:33
635316009	KRA-GWC-13	Ground Water	29/08/23 10:45	30/08/23 09:33
635316010	KRA-GWC-17	Ground Water	29/08/23 09:05	30/08/23 09:33
635316011	KRA-GWC-22	Ground Water	29/08/23 13:06	30/08/23 09:33
635316012	KRA-GRL-FD-01	Ground Water	29/08/23 12:00	30/08/23 09:33
635316013	KRA-GRL-FD-02	Ground Water	29/08/23 12:00	30/08/23 09:33
635316014	KRA-GRL-FB-01	Ground Water	29/08/23 10:50	30/08/23 09:33



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.

Prep Methods and Prep Dates

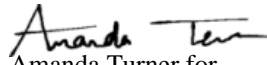
Not Applicable

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
Calculation	25-SEP-2023
EPA 903.1 Modified	24-SEP-2023
EPA 904.0/SW846 9320 Modified	08-SEP-2023
EPA 904.0/SW846 9320 Modified	22-SEP-2023
EPA 904.0/SW846 9320 Modified	25-SEP-2023

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,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner 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: 635316 GEL Work Order: 635316

The Qualifiers in this report are defined as follows:

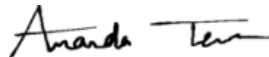
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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: September 25, 2023

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

Client Sample ID: KRA-GWA-7
 Sample ID: 635316001
 Matrix: WG
 Collect Date: 28-AUG-23
 Receive Date: 30-AUG-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	0.425	+/-0.544	0.926	+/-0.554	3.00	pCi/L			JE1	09/22/23	1043	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.69	+/-0.773	0.926	+/-0.821		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.27	+/-0.550	0.661	+/-0.605	1.00	pCi/L			LXP1	09/24/23	0735	2486920	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"	2494137	93.4	(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

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: September 25, 2023

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

Client Sample ID: KRA-GWA-8
 Sample ID: 635316002
 Matrix: WG
 Collect Date: 28-AUG-23
 Receive Date: 30-AUG-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	+/-0.987	1.59	+/-1.03	3.00	pCi/L			JE1	09/22/23	1043	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.84	+/-1.04	1.59	+/-1.09		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.704	+/-0.324	0.269	+/-0.358	1.00	pCi/L			LXP1	09/24/23	0735	2486920	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"	2494137	82.8	(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: September 25, 2023

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

Client Sample ID: KRA-GWB-4R
 Sample ID: 635316003
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	1.10	+/-0.850	1.35	+/-0.895	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.86	+/-1.04	1.35	+/-1.16		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.76	+/-0.593	0.248	+/-0.739	1.00	pCi/L			LXP1	09/24/23	0735	2486920	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"	2494137	95.6	(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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Report Date: September 25, 2023

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

Client Sample ID: KRA-GWB-5R
 Sample ID: 635316004
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	-0.522	+/-0.763	1.56	+/-0.763	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.63	+/-0.933	1.56	+/-0.971		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.63	+/-0.537	0.476	+/-0.601	1.00	pCi/L			LXP1	09/24/23	0735	2486920	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"	2494137	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: September 25, 2023

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

Client Sample ID: KRA-GWB-6R
 Sample ID: 635316005
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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		5.68	+/-1.26	1.16	+/-1.92	3.00	pCi/L			JE1	09/25/23	1249	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		8.19	+/-1.43	1.16	+/-2.12		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.51	+/-0.671	0.565	+/-0.897	1.00	pCi/L			LXP1	09/24/23	0735	2486920	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"	2494137	88.8	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-1
 Sample ID: 635316006
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.958	+/-0.652	0.965	+/-0.697	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.65	+/-0.852	0.965	+/-0.926		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.69	+/-0.548	0.446	+/-0.611	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	96.2	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-2
 Sample ID: 635316007
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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		1.92	+/-1.19	1.85	+/-1.28	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.49	+/-1.24	1.85	+/-1.33		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.570	+/-0.357	0.450	+/-0.367	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	94.5	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-9
 Sample ID: 635316008
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.404	+/-0.615	1.07	+/-0.624	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.44	+/-0.758	1.07	+/-0.803		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.03	+/-0.443	0.470	+/-0.506	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	97.7	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-13
 Sample ID: 635316009
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.511	+/-0.587	0.983	+/-0.602	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.36	+/-0.818	0.983	+/-0.877		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.85	+/-0.570	0.402	+/-0.638	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	95	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-17
 Sample ID: 635316010
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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		1.57	+/-0.778	1.04	+/-0.877	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.77	+/-0.879	1.04	+/-0.983		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.20	+/-0.409	0.312	+/-0.445	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	98.4	(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: September 25, 2023

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

Client Sample ID: KRA-GWC-22
 Sample ID: 635316011
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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		4.60	+/-1.28	1.43	+/-1.74	3.00	pCi/L			JE1	09/22/23	1045	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		11.3	+/-1.58	1.43	+/-2.42		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		6.72	+/-0.917	0.306	+/-1.68	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	83.9	(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: September 25, 2023

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

Client Sample ID: KRA-GRL-FD-01
 Sample ID: 635316012
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.389	+/-0.879	1.56	+/-0.885	3.00	pCi/L			JE1	09/22/23	1045	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.07	+/-0.946	1.56	+/-0.962		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.682	+/-0.348	0.363	+/-0.376	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	85.7	(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: September 25, 2023

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

Client Sample ID: KRA-GRL-FD-02
 Sample ID: 635316013
 Matrix: WG
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.593	+/-0.789	1.35	+/-0.803	3.00	pCi/L			JE1	09/22/23	1045	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.06	+/-0.975	1.35	+/-1.01		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.47	+/-0.574	0.621	+/-0.618	1.00	pCi/L			LXP1	09/24/23	0818	2486920	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"	2494137	94.2	(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: September 25, 2023

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

Client Sample ID: KRA-GRL-FB-01
 Sample ID: 635316014
 Matrix: WQ
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	-0.0743	+/-0.956	1.78	+/-0.956	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.587	+/-1.01	1.78	+/-1.02		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.587	+/-0.337	0.406	+/-0.356	1.00	pCi/L			LXP1	09/24/23	0852	2486920	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"	2494137	91.5	(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	

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: September 25, 2023

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

Client Sample ID: KRA-GRL-EB-04
 Sample ID: 635316015
 Matrix: WQ
 Collect Date: 29-AUG-23
 Receive Date: 30-AUG-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	0.249	+/-0.712	1.30	+/-0.715	3.00	pCi/L			JE1	09/22/23	1044	2494137	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.863	+/-0.788	1.30	+/-0.796		pCi/L			NXL1	09/25/23	1639	2489504	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.614	+/-0.337	0.368	+/-0.349	1.00	pCi/L			LXP1	09/24/23	0852	2486920	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"	2494137	83.9	(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	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 635316**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2489504

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635316001	KRA-GWA-7
635316002	KRA-GWA-8
635316003	KRA-GWB-4R
635316004	KRA-GWB-5R
635316005	KRA-GWB-6R
635316006	KRA-GWC-1
635316007	KRA-GWC-2
635316008	KRA-GWC-9
635316009	KRA-GWC-13
635316010	KRA-GWC-17
635316011	KRA-GWC-22
635316012	KRA-GRL-FD-01
635316013	KRA-GRL-FD-02
635316014	KRA-GRL-FB-01
635316015	KRA-GRL-EB-04

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: 2494137

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635316001	KRA-GWA-7
635316002	KRA-GWA-8
635316003	KRA-GWB-4R
635316004	KRA-GWB-5R

635316005	KRA-GWB-6R
635316006	KRA-GWC-1
635316007	KRA-GWC-2
635316008	KRA-GWC-9
635316009	KRA-GWC-13
635316010	KRA-GWC-17
635316011	KRA-GWC-22
635316012	KRA-GRL-FD-01
635316013	KRA-GRL-FD-02
635316014	KRA-GRL-FB-01
635316015	KRA-GRL-EB-04
1205520207	Method Blank (MB)
1205520208	635316002(KRA-GWA-8) Sample Duplicate (DUP)
1205520209	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

Sample Re-prep/Re-analysis

Samples were re-prepped due to low carrier/tracer yield. The re-analysis is being reported.

Recounts

Sample 1205520209 (LCS) was recounted due to high recovery. The recount is reported. Sample 635316005 (KRA-GWB-6R) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2486920

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
635316001	KRA-GWA-7
635316002	KRA-GWA-8
635316003	KRA-GWB-4R
635316004	KRA-GWB-5R
635316005	KRA-GWB-6R
635316006	KRA-GWC-1
635316007	KRA-GWC-2
635316008	KRA-GWC-9
635316009	KRA-GWC-13
635316010	KRA-GWC-17
635316011	KRA-GWC-22
635316012	KRA-GRL-FD-01

635316013	KRA-GRL-FD-02
635316014	KRA-GRL-FB-01
635316015	KRA-GRL-EB-04
1205506762	Method Blank (MB)
1205506763	634940001(NonSDG) Sample Duplicate (DUP)
1205506764	634940001(NonSDG) Matrix Spike (MS)
1205506765	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, 1205506764 (Non SDG 634940001MS), 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.

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QC Summary

Report Date: September 25, 2023
Page 1 of 2

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

Contact: Kristen Jurinko

Workorder: 635316

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2494137										
QC1205520208	635316002 DUP										
Radium-228	U	1.14	U	0.481	pCi/L	0		N/A	JE1	09/22/23	10:43
	Uncert:	+/-0.987		+/-0.866							
	TPU:	+/-1.03		+/-0.875							
QC1205520209	LCS										
Radium-228	72.3			79.7	pCi/L		110	(75%-125%)	JE1	09/22/23	12:06
	Uncert:			+/-4.37							
	TPU:			+/-20.7							
QC1205520207	MB										
Radium-228			U	0.636	pCi/L				JE1	09/22/23	10:43
	Uncert:			+/-0.624							
	TPU:			+/-0.645							
Rad Ra-226											
Batch	2486920										
QC1205506763	634940001 DUP										
Radium-226		0.778		0.736	pCi/L	5.65		(0% - 100%)	LXP1	09/24/23	08:52
	Uncert:	+/-0.357		+/-0.408							
	TPU:	+/-0.381		+/-0.429							
QC1205506765	LCS										
Radium-226	53.8			57.6	pCi/L		107	(75%-125%)	LXP1	09/24/23	08:52
	Uncert:			+/-2.75							
	TPU:			+/-11.7							
QC1205506762	MB										
Radium-226			U	0.000	pCi/L				LXP1	09/24/23	08:52
	Uncert:			+/-0.194							
	TPU:			+/-0.194							
QC1205506764	634940001 MS										
Radium-226	136	0.778		108	pCi/L		78.3	(75%-125%)	LXP1	09/24/23	08:52
	Uncert:	+/-0.357		+/-8.01							
	TPU:	+/-0.381		+/-24.9							

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: 635316

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.

635308

Page: 1 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

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 # _____

Send Results To: SCS & ACC Contacts

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 (1)	Field Filtered (2)	Sample Matrix (6)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)				Comments
						Radon (if yes, please supply isotopic info)	(7) Known or possible Hazards	Total number of containers	EPA 6020, 6010, 7470 Metals *	EPA 6020, 6010, 7470 Dissolved Metals *	EPA 6020, 6010, 7470 Radium 226 & 228 SW-846 9315, 9320	
KRA- GWA-7	08/29/23	1635	G	Y	WG	N	N	7	✓	✓	✓	
KRA- GWA-8	08/29/23	1707	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-4R	08/29/23	1415	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-5R	08/29/23	1236	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-6R	08/29/23	1115	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-1	08/29/23	1540	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-2	08/29/23	1505	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-9	08/29/23	0925	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-13	08/29/23	1045	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-17	08/29/23	0905	G	N	WG	N	N	6	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Date	Time
<i>[Signature]</i>	08/30/23	0933	08/30/23	0933
2				
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, 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	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	TSCA Regulated PCB = Polychlorinated biphenyls		
MR = Misc. RCRA metals			

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

Client Name: GA Power
 Project/Site Name: Plant Kraft - Grumman Road Landfill
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: A. Schnitzler 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)	Should this sample be considered:	Sample Analysis Requested (5)	Comments
KRA-GWC-22	08/29/23	1306	G	N	WG	(7) Known or possible Hazards	<input type="checkbox"/> EPA 300, SM 2540C <input type="checkbox"/> Metals * <input type="checkbox"/> EPA 6020, 6010, 7470 <input type="checkbox"/> Dissolved Metals * <input type="checkbox"/> EPA 6020, 6010, 7470 <input type="checkbox"/> Radium 226 & 228 <input type="checkbox"/> SW-846 9315, 9320	<-- Preservative Type (6) Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2023S2
KRA-GRL-FD-01	08/29/23	—	G	N	WG	Yes, please supply isotopic info)		
KRA-GRL-FD-02	08/29/23	—	G	N	WG	Radioactive (If yes, please supply isotopic info)		
KRA-GRL-FB-01	08/29/23	1050	G	N	WQ	Total number of containers		
KRA-GRL-EB-04	08/29/23	1410	G	N	WQ			
KRA-								
KRA-								
KRA-								
KRA-								
KRA-								

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<i>[Signature]</i>	08/30/23 0933	<i>[Signature]</i>	08/30/23	0533

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=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
 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 RECEIPT & REVIEW FORM

635308

Client: EPCC		SDG/AR/COC/Work Order: AP			
Received By: MVH		Date Received: 8/30/23			
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other COOLERS 2-1°C COOLERS 4-0°C COOLERS 1-1°C COOLERS 3-2°C COOLERS 5-1°C			
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> 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"/>	<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: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: IR2-21 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: ✓ KPA-GWA-7 (all units in bottles) * If Preservation added, both: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<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 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<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): * HNO3 LOT #3944975 BP added					

PM (or PMA) review: Initials AT Date 8/31/23 Page 1 of 1

Amanda Turner

From: Amanda Turner
Sent: Thursday, August 31, 2023 2:37 PM
To: KNJURINK@SOUTHERNCO.COM; JABRAHAM@SOUTHERNCO.COM;
MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Trent
Subject: Preservation Issues (635308 and 635316)
Attachments: 635308 635316 COC.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

Notifying you that the nitric bottles for sample "KRA-GWA-7" on work orders 635308 and 635316 did not hold proper preservation. Proper preservation was added to the containers.
See attachment for reference.

Thank you!
Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



List of current GEL Certifications as of 25 September 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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

September 21, 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: 636224

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 07, 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. Sample container "KRA-GRL-FB-02" collection time lists 1345, but COC lists 1355. 636224003(KRA-GRL-FB-02). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
636224001	KRA-MW-23D	Ground Water	06/09/23 13:37	07/09/23 13:37
636224002	KRA-GWC-12	Ground Water	06/09/23 13:25	07/09/23 13:37
636224003	KRA-GRL-FB-02	Ground Water	06/09/23 13:55	07/09/23 13:37
636224004	KRA-GWC-20	Ground Water	06/09/23 14:17	07/09/23 13:37
636224005	KRA-GWC-11	Ground Water	06/09/23 15:30	07/09/23 13:37
636224006	KRA-GWC-16	Ground Water	06/09/23 15:42	07/09/23 13:37
636224007	KRA-GWC-21	Ground Water	06/09/23 16:20	07/09/23 13:37
636224008	KRA-GRL-FD-03	Ground Water	06/09/23 12:00	07/09/23 13:37
636224009	KRA-MW-24D	Ground Water	06/09/23 17:33	07/09/23 13:37
636224010	KRA-GWC-14	Ground Water	06/09/23 17:00	07/09/23 13:37
636224011	KRA-GRL-EB-05	Ground Water	06/09/23 17:30	07/09/23 13:37
636224012	KRA-MW-25D	Ground Water	07/09/23 09:13	07/09/23 13:37
636224013	KRA-GRL-EB-06	Ground Water	07/09/23 09:35	07/09/23 13:37
636224014	KRA-GWC-15	Ground Water	07/09/23 09:05	07/09/23 13:37



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.

Prep Methods and Prep Dates

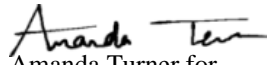
<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	08-SEP-2023
SW846 7470A Prep	08-SEP-2023

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	08-SEP-2023
EPA 300.0	09-SEP-2023
SM 2540C	08-SEP-2023
SM 2540C	11-SEP-2023
SW846 3005A/6020B	19-SEP-2023
SW846 3005A/6020B	20-SEP-2023
SW846 7470A	11-SEP-2023

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,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner 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: 636224 GEL Work Order: 636224

The Qualifiers in this report are defined as follows:

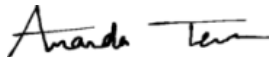
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- 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 21, 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: 636224001 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 13:37
Receive Date: 07-SEP-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		7.65	0.0670	0.200	mg/L		1	HXC1	09/08/23	1635	2488905	1
Fluoride		0.130	0.0330	0.100	mg/L		1					
Sulfate		37.5	0.665	2.00	mg/L		5	HXC1	09/09/23	0425	2488905	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1135	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1313	2488995	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0732	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0276	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.49	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		103	2.38	10.0	mg/L			CH6	09/08/23	1330	2489160	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 21, 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:	636224001	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	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: September 21, 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: 636224002 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 13:25
Receive Date: 07-SEP-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		0.238	0.0330	0.100	mg/L		1	HXC1	09/08/23	1808	2488905	1
Chloride		74.1	2.68	8.00	mg/L		40	HXC1	09/09/23	0558	2488905	2
Sulfate		437	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	AXS5	09/11/23	1143	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1454	2488995	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Beryllium		0.000521	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	0.000732	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					
Vanadium	J	0.0101	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		9.02	0.520	1.50	mg/L	1.00	100	PRB	09/19/23	1342	2488995	5
Barium		0.0273	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0746	2488995	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Calcium		77.4	0.800	2.00	mg/L	1.00	10	PRB	09/19/23	1339	2488995	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		686	4.76	20.0	mg/L			CH6	09/08/23	1330	2489160	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 21, 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: 636224002 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	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

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Certificate of Analysis

Report Date: September 21, 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: 636224003 Client ID: GPCC001
Matrix: WQ
Collect Date: 06-SEP-23 13:55
Receive Date: 07-SEP-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	HXC1	09/09/23	0629	2488905	1
Fluoride		0.381	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	0.000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1144	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1346	2488995	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					
Boron	U	ND	0.00520	0.0150	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	09/08/23	1330	2489160	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 21, 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: 636224003 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	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 21, 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: 636224004	Client ID: GPCC001
Matrix: WG	
Collect Date: 06-SEP-23 14:17	
Receive Date: 07-SEP-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		460	5.32	16.0	mg/L		40	HXC1	09/09/23	0700	2488905	1
Chloride		12.2	0.335	1.00	mg/L		5	HXC1	09/08/23	1910	2488905	2
Fluoride	U	ND	0.0660	0.200	mg/L		2	HXC1	09/09/23	0730	2488905	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1149	2488917	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1458	2488995	5
Arsenic		0.258	0.00200	0.00500	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000823	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					
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	0.00768	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Barium		0.178	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0750	2488995	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Boron		11.3	0.520	1.50	mg/L	1.00	100	PRB	09/19/23	1349	2488995	7
Calcium		151	8.00	20.0	mg/L	1.00	100					
Molybdenum		0.753	0.0200	0.100	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		924	4.76	20.0	mg/L			CH6	09/08/23	1330	2489160	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 21, 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: 636224004 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	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 21, 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: 636224005 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 15:30
Receive Date: 07-SEP-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	U	ND	0.165	0.500	mg/L		5	HXC1	09/08/23	1940	2488905	1
Chloride		98.0	6.70	20.0	mg/L		100	HXC1	09/09/23	0801	2488905	2
Sulfate		827	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	AXS5	09/11/23	1151	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1502	2488995	4
Arsenic	J	0.00254	0.00200	0.00500	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000563	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000794	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000804	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00360	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00685	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00479	0.00330	0.0200	mg/L	1.00	1					
Boron		4.44	0.260	0.750	mg/L	1.00	50	PRB	09/19/23	1353	2488995	5
Calcium		160	4.00	10.0	mg/L	1.00	50					
Barium		0.192	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0753	2488995	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1330	4.76	20.0	mg/L			CH6	09/08/23	1330	2489160	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

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Certificate of Analysis

Report Date: September 21, 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: 636224005 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	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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 21, 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: 636224006 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 15:42
Receive Date: 07-SEP-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		45.9	0.335	1.00	mg/L		5	HXC1	09/08/23	2011	2488905	1
Fluoride	U	ND	0.165	0.500	mg/L		5					
Sulfate		1250	13.3	40.0	mg/L		100	HXC1	09/09/23	0832	2488905	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1153	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		20.4	1.04	3.00	mg/L	1.00	200	PRB	09/19/23	1357	2488995	4
Calcium		311	16.0	40.0	mg/L	1.00	200					
Barium		0.143	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0757	2488995	5
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1506	2488995	6
Arsenic		0.120	0.00200	0.00500	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					
Molybdenum		0.0886	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00161	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00631	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		1980	23.8	100	mg/L			CH6	09/08/23	1330	2489160	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 21, 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: 636224006 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	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 21, 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: 636224007 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 16:20
Receive Date: 07-SEP-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		24.5	0.335	1.00	mg/L		5	HXC1	09/08/23	2144	2488905	1
Sulfate		470	5.32	16.0	mg/L		40	HXC1	09/09/23	1532	2488905	2
Fluoride	U	ND	0.0660	0.200	mg/L		2	HXC1	09/09/23	1602	2488905	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1154	2488917	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1509	2488995	5
Arsenic		0.0323	0.00200	0.00500	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					
Molybdenum		0.0458	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00554	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0101	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		5.60	0.260	0.750	mg/L	1.00	50	PRB	09/19/23	1400	2488995	6
Calcium		142	4.00	10.0	mg/L	1.00	50					
Barium		0.232	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0801	2488995	7
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		826	4.76	20.0	mg/L			CH6	09/08/23	1330	2489160	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

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Certificate of Analysis

Report Date: September 21, 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: 636224007 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	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 21, 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: 636224008 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 12:00
Receive Date: 07-SEP-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		26.3	2.68	8.00	mg/L		40	HXC1	09/09/23	1633	2488905	1
Sulfate		476	5.32	16.0	mg/L		40					
Fluoride		0.164	0.0330	0.100	mg/L		1	HXC1	09/08/23	2215	2488905	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1156	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		5.60	0.260	0.750	mg/L	1.00	50	PRB	09/19/23	1404	2488995	4
Calcium		141	4.00	10.0	mg/L	1.00	50					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1513	2488995	5
Arsenic		0.0324	0.00200	0.00500	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					
Molybdenum		0.0455	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00564	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00982	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Barium		0.229	0.000670	0.00400	mg/L	1.00	1	PRB	09/20/23	0804	2488995	6
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		832	4.76	20.0	mg/L			CH6	09/08/23	1330	2489160	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

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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-GRL-FD-03 Project: GPCC00102
Sample ID: 636224008 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	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 21, 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: 636224009 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 17:33
Receive Date: 07-SEP-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		5.82	0.0670	0.200	mg/L		1	HXC1	09/08/23	2246	2488905	1
Fluoride		0.147	0.0330	0.100	mg/L		1					
Sulfate	J	0.176	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	AXS5	09/11/23	1158	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1415	2488995	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0340	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0168	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.96	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	0.000882	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		20.0	2.38	10.0	mg/L			CH6	09/08/23	1330	2489160	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

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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-MW-24D	Project:	GPCC00102
Sample ID:	636224009	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	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: September 21, 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: 636224010 Client ID: GPCC001
Matrix: WG
Collect Date: 06-SEP-23 17:00
Receive Date: 07-SEP-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	U	ND	0.0330	0.100	mg/L		1	HXC1	09/08/23	2317	2488905	1
Chloride		22.7	1.34	4.00	mg/L		20	HXC1	09/09/23	1704	2488905	2
Sulfate		185	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	AXS5	09/11/23	1159	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1418	2488995	4
Arsenic	J	0.00244	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0833	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0433	0.00520	0.0150	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		0.0199	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00516	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00671	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Calcium		145	0.800	2.00	mg/L	1.00	10	PRB	09/19/23	1422	2488995	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		594	2.38	10.0	mg/L			CH6	09/08/23	1330	2489160	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

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Certificate of Analysis

Report Date: September 21, 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: 636224010 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 21, 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: 636224011 Client ID: GPCC001
Matrix: WQ
Collect Date: 06-SEP-23 17:30
Receive Date: 07-SEP-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		0.211	0.0670	0.200	mg/L		1	HXC1	09/08/23	2347	2488905	1
Fluoride		0.511	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	AXS5	09/11/23	1201	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1425	2488995	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000695	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.102	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	09/08/23	1330	2489160	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

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Certificate of Analysis

Report Date: September 21, 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: 636224011 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	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 21, 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: 636224012 Client ID: GPCC001
Matrix: WG
Collect Date: 07-SEP-23 09:13
Receive Date: 07-SEP-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		6.19	0.0670	0.200	mg/L		1	HXC1	09/09/23	0018	2488905	1
Fluoride		0.198	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	AXS5	09/11/23	1202	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1429	2488995	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0290	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.17	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		23.0	2.38	10.0	mg/L			CH6	09/08/23	1330	2489160	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

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Certificate of Analysis

Report Date: September 21, 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: 636224012 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	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 21, 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: 636224013 Client ID: GPCC001
Matrix: WQ
Collect Date: 07-SEP-23 09:35
Receive Date: 07-SEP-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	0.169	0.0670	0.200	mg/L		1	HXC1	09/09/23	0049	2488905	1
Fluoride		0.437	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	AXS5	09/11/23	1204	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1433	2488995	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000787	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.114	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	09/08/23	1330	2489160	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916

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Certificate of Analysis

Report Date: September 21, 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:	636224013	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	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 21, 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: GPC00102
Sample ID: 636224014	Client ID: GPC001
Matrix: WG	
Collect Date: 07-SEP-23 09:05	
Receive Date: 07-SEP-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		46.8	0.665	2.00	mg/L		5	HXC1	09/09/23	1735	2488905	1
Chloride		4.46	0.0670	0.200	mg/L		1	HXC1	09/09/23	0120	2488905	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	AXS5	09/11/23	1404	2488917	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1436	2488995	4
Arsenic		0.287	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0573	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		0.0588	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	0.00462	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.747	0.0520	0.150	mg/L	1.00	10	PRB	09/19/23	1440	2488995	5
Calcium		142	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		471	2.38	10.0	mg/L			CH6	09/08/23	1330	2489160	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

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Certificate of Analysis

Report Date: September 21, 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: 636224014 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

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 21, 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: 636224015 Client ID: GPCC001
Matrix: WQ
Collect Date: 07-SEP-23 09:55
Receive Date: 07-SEP-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	0.158	0.0670	0.200	mg/L		1	HXC1	09/09/23	0151	2488905	1
Fluoride		0.428	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	0.000670	0.000200	mg/L	1.00	1	AXS5	09/11/23	1405	2488917	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/19/23	1443	2488995	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.000835	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.108	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	09/11/23	1301	2489909	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	EK1	09/08/23	1240	2488916
SW846 3005A	ICP-MS 3005A PREP	JM13	09/08/23	1500	2488994

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Certificate of Analysis

Report Date: September 21, 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: 636224015 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	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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QC Summary

Report Date: September 21, 2023

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

Contact: Kristen Jurinko

Workorder: 636224

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2488905										
QC1205510468	636224001	DUP									
Chloride		7.65		7.64	mg/L	0.11		(0%-20%)	HXC1	09/08/23	17:06
Fluoride		0.130		0.121	mg/L	7.17	^	(+/-0.100)			
Sulfate		37.5		37.4	mg/L	0.294		(0%-20%)		09/09/23	04:56
QC1205510470	636224015	DUP									
Chloride	J	0.158	U	ND	mg/L	200	^			09/09/23	02:22
Fluoride		0.428		0.440	mg/L	2.95	^	(+/-0.100)			
Sulfate	U	ND	U	ND	mg/L	N/A					
QC1205510467	LCS										
Chloride	5.00			4.71	mg/L			94.3 (90%-110%)		09/08/23	16:04
Fluoride	2.50			2.45	mg/L			98.2 (90%-110%)			
Sulfate	10.0			9.67	mg/L			96.7 (90%-110%)			
QC1205510466	MB										
Chloride			U	ND	mg/L					09/08/23	15:34
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2488905										
QC1205510469	636224001 PS										
Chloride	5.00	7.65		14.4	mg/L		135*	(90%-110%)	HXC1	09/08/23	17:37
Fluoride	2.50	0.130		2.94	mg/L		112*	(90%-110%)			
Sulfate	10.0	7.50		17.8	mg/L		103	(90%-110%)		09/09/23	05:27
QC1205510471	636224015 PS										
Chloride	5.00	J	0.158	4.98	mg/L		96.4	(90%-110%)		09/09/23	03:54
Fluoride	2.50	0.428		3.00	mg/L		103	(90%-110%)			
Sulfate	10.0	U	ND	10.0	mg/L		100	(90%-110%)			
Metals Analysis - ICPMS											
Batch	2488995										
QC1205510604	LCS										
Antimony	0.0500			0.0492	mg/L		98.3	(80%-120%)	PRB	09/19/23	13:10
Arsenic	0.0500			0.0461	mg/L		92.1	(80%-120%)			
Barium	0.0500			0.0564	mg/L		113	(80%-120%)			
Beryllium	0.0500			0.0526	mg/L		105	(80%-120%)			
Boron	0.100			0.103	mg/L		103	(80%-120%)			
Cadmium	0.0500			0.0499	mg/L		99.9	(80%-120%)			
Calcium	2.00			2.10	mg/L		105	(80%-120%)			
Chromium	0.0500			0.0501	mg/L		100	(80%-120%)			

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2488995										
Cobalt	0.0500			0.0493	mg/L		98.5	(80%-120%)	PRB	09/19/23	13:10
Lead	0.0500			0.0495	mg/L		99.1	(80%-120%)			
Lithium	0.0500			0.0489	mg/L		97.9	(80%-120%)			
Molybdenum	0.0500			0.0503	mg/L		101	(80%-120%)			
Selenium	0.0500			0.0478	mg/L		95.7	(80%-120%)			
Thallium	0.0500			0.0480	mg/L		96	(80%-120%)			
Vanadium	0.0500			0.0518	mg/L		104	(80%-120%)			
Zinc	0.0500			0.0469	mg/L		93.7	(80%-120%)			
QC1205510603	MB										
Antimony			U	ND	mg/L					09/19/23	13:06
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2488995										
Chromium			U	ND	mg/L				PRB	09/19/23	13:06
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						
QC1205510605 636224001 MS											
Antimony	0.0500	U	ND	0.0501	mg/L		99.9	(75%-125%)		09/19/23	13:17
Arsenic	0.0500	U	ND	0.0477	mg/L		92.9	(75%-125%)			
Barium	0.0500		0.0732	0.132	mg/L		118	(75%-125%)			
Beryllium	0.0500	U	ND	0.0532	mg/L		106	(75%-125%)			
Boron	0.100		0.0276	0.134	mg/L		106	(75%-125%)			
Cadmium	0.0500	U	ND	0.0502	mg/L		100	(75%-125%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2488995										
Calcium	2.00	8.49		10.6	mg/L		N/A	(75%-125%)	PRB	09/19/23	13:17
Chromium	0.0500	U	ND	0.0512	mg/L		101	(75%-125%)			
Cobalt	0.0500	U	ND	0.0495	mg/L		99.1	(75%-125%)			
Lead	0.0500	U	ND	0.0491	mg/L		98.3	(75%-125%)			
Lithium	0.0500	U	ND	0.0499	mg/L		98.9	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0520	mg/L		104	(75%-125%)			
Selenium	0.0500	U	ND	0.0448	mg/L		89.4	(75%-125%)			
Thallium	0.0500	U	ND	0.0478	mg/L		95.6	(75%-125%)			
Vanadium	0.0500	U	ND	0.0543	mg/L		103	(75%-125%)			
Zinc	0.0500	U	ND	0.0477	mg/L		92	(75%-125%)			
QC1205510606	636224001	MSD									
Antimony	0.0500	U	ND	0.0510	mg/L	1.74	102	(0%-20%)		09/19/23	13:21
Arsenic	0.0500	U	ND	0.0497	mg/L	4.08	96.9	(0%-20%)			
Barium	0.0500		0.0732	0.135	mg/L	2.18	124	(0%-20%)			
Beryllium	0.0500	U	ND	0.0538	mg/L	1.05	108	(0%-20%)			
Boron	0.100		0.0276	0.135	mg/L	1.05	107	(0%-20%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2488995										
Cadmium	0.0500	U	ND	0.0515	mg/L	2.61	103	(0%-20%)	PRB	09/19/23	13:21
Calcium	2.00		8.49	10.7	mg/L	0.822	N/A	(0%-20%)			
Chromium	0.0500	U	ND	0.0519	mg/L	1.45	103	(0%-20%)			
Cobalt	0.0500	U	ND	0.0512	mg/L	3.38	102	(0%-20%)			
Lead	0.0500	U	ND	0.0504	mg/L	2.42	101	(0%-20%)			
Lithium	0.0500	U	ND	0.0510	mg/L	2.27	101	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0535	mg/L	2.87	107	(0%-20%)			
Selenium	0.0500	U	ND	0.0472	mg/L	5.24	94.2	(0%-20%)			
Thallium	0.0500	U	ND	0.0487	mg/L	1.75	97.3	(0%-20%)			
Vanadium	0.0500	U	ND	0.0548	mg/L	1.03	105	(0%-20%)			
Zinc	0.0500	U	ND	0.0492	mg/L	3.08	95	(0%-20%)			
QC1205510607 636224001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/19/23	13:28
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			73.2	14.5	ug/L	1.15		(0%-20%)			
Beryllium		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 - ICPMS											
Batch	2488995										
Boron		27.6	J	6.08	ug/L	10.1		(0%-20%)	PRB	09/19/23	13:28
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium		8490		1820	ug/L	6.99		(0%-20%)			
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt	U	ND	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	U	ND	U	ND	ug/L	N/A		(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	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Zinc	U	ND	U	ND	ug/L	N/A		(0%-20%)			

Metals Analysis-Mercury

Batch	2488917										
QC1205510494	636224001	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			AXS5	09/11/23	11:36
QC1205510493	LCS										
Mercury	0.00200			0.00233	mg/L		117	(80%-120%)		09/11/23	11:33

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2488917										
QC1205510492	MB										
Mercury			U	ND	mg/L				AXS5	09/11/23	11:31
QC1205510495	636224001	MS									
Mercury	0.00200	U	ND	0.00226	mg/L		113	(75%-125%)		09/11/23	11:38
QC1205510496	636224001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/11/23	11:39
Solids Analysis											
Batch	2489160										
QC1205510873	636224006	DUP									
Total Dissolved Solids			1980	1620	mg/L	20*		(0%-5%)	CH6	09/08/23	13:30
QC1205510871	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		09/08/23	13:30
QC1205510870	MB										
Total Dissolved Solids			U	ND	mg/L					09/08/23	13:30
Batch	2489909										
QC1205512284	636365001	DUP									
Total Dissolved Solids			22.0	17.0	mg/L	25.6 ^		(+/-10.0)	CH6	09/11/23	13:01
QC1205512281	LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		09/11/23	13:01
QC1205512280	MB										
Total Dissolved Solids			U	ND	mg/L					09/11/23	13:01

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

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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										
N1	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										

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 #: 636224**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2488995

Preparation Method: SW846 3005A

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

Preparation Batch: 2488994

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636224001	KRA-MW-23D
636224002	KRA-GWC-12
636224003	KRA-GRL-FB-02
636224004	KRA-GWC-20
636224005	KRA-GWC-11
636224006	KRA-GWC-16
636224007	KRA-GWC-21
636224008	KRA-GRL-FD-03
636224009	KRA-MW-24D
636224010	KRA-GWC-14
636224011	KRA-GRL-EB-05
636224012	KRA-MW-25D
636224013	KRA-GRL-EB-06
636224014	KRA-GWC-15
636224015	KRA-GRL-FB-03
1205510603	Method Blank (MB) ICP-MS
1205510604	Laboratory Control Sample (LCS)
1205510607	636224001(KRA-MW-23DL) Serial Dilution (SD)
1205510605	636224001(KRA-MW-23DS) Matrix Spike (MS)
1205510606	636224001(KRA-MW-23DSD) 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 636224002 (KRA-GWC-12), 636224004 (KRA-GWC-20), 636224005 (KRA-GWC-11), 636224006 (KRA-GWC-16), 636224007 (KRA-GWC-21), 636224008 (KRA-GRL-FD-03), 636224010 (KRA-GWC-14) and 636224014 (KRA-GWC-15) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	636224							
	002	004	005	006	007	008	010	014
Boron	100X	100X	50X	200X	50X	50X	1X	10X
Calcium	10X	100X	50X	200X	50X	50X	10X	10X
Molybdenum	1X	100X	1X	1X	1X	1X	1X	1X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2488917

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2488916

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636224001	KRA-MW-23D
636224002	KRA-GWC-12
636224003	KRA-GRL-FB-02
636224004	KRA-GWC-20
636224005	KRA-GWC-11
636224006	KRA-GWC-16
636224007	KRA-GWC-21
636224008	KRA-GRL-FD-03
636224009	KRA-MW-24D
636224010	KRA-GWC-14
636224011	KRA-GRL-EB-05
636224012	KRA-MW-25D
636224013	KRA-GRL-EB-06
636224014	KRA-GWC-15
636224015	KRA-GRL-FB-03
1205510492	Method Blank (MB)CVAA
1205510493	Laboratory Control Sample (LCS)
1205510496	636224001(KRA-MW-23DL) Serial Dilution (SD)
1205510494	636224001(KRA-MW-23DD) Sample Duplicate (DUP)
1205510495	636224001(KRA-MW-23DS) 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# 33

Analytical Batch: 2488905

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636224001	KRA-MW-23D
636224002	KRA-GWC-12
636224003	KRA-GRL-FB-02
636224004	KRA-GWC-20
636224005	KRA-GWC-11
636224006	KRA-GWC-16
636224007	KRA-GWC-21
636224008	KRA-GRL-FD-03
636224009	KRA-MW-24D
636224010	KRA-GWC-14
636224011	KRA-GRL-EB-05
636224012	KRA-MW-25D
636224013	KRA-GRL-EB-06
636224014	KRA-GWC-15
636224015	KRA-GRL-FB-03
1205510466	Method Blank (MB)
1205510467	Laboratory Control Sample (LCS)
1205510468	636224001(KRA-MW-23D) Sample Duplicate (DUP)
1205510469	636224001(KRA-MW-23D) Post Spike (PS)
1205510470	636224015(KRA-GRL-FB-03) Sample Duplicate (DUP)
1205510471	636224015(KRA-GRL-FB-03) 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	1205510469 (KRA-MW-23DPS)	135* (90%-110%)
Fluoride	1205510469 (KRA-MW-23DPS)	112* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205510468 (KRA-MW-23DDUP), 1205510469 (KRA-MW-23DPS), 636224001 (KRA-MW-23D), 636224002 (KRA-GWC-12), 636224004 (KRA-GWC-20), 636224005 (KRA-GWC-11), 636224006 (KRA-GWC-16), 636224007 (KRA-GWC-21), 636224008 (KRA-GRL-FD-03), 636224010 (KRA-GWC-14) and 636224014 (KRA-GWC-15) were diluted because target analyte concentrations exceeded the calibration range. Samples 636224004 (KRA-GWC-20), 636224005 (KRA-GWC-11), 636224006 (KRA-GWC-16) and 636224007 (KRA-GWC-21) were diluted to minimize matrix effects on instrument performance. Samples 636224004 (KRA-GWC-20), 636224005 (KRA-GWC-11), 636224006 (KRA-GWC-16) and 636224007 (KRA-GWC-21) were 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	636224									
	001	002	004	005	006	007	008	010	014	
Chloride	1X	40X	5X	100X	5X	5X	40X	20X	1X	
Fluoride	1X	1X	2X	5X	5X	2X	1X	1X	1X	
Sulfate	5X	40X	40X	100X	100X	40X	40X	20X	5X	

Sample Re-analysis

Sample 636224003 (KRA-GRL-FB-02) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2489160

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636224001	KRA-MW-23D
636224002	KRA-GWC-12
636224003	KRA-GRL-FB-02
636224004	KRA-GWC-20
636224005	KRA-GWC-11
636224006	KRA-GWC-16
636224007	KRA-GWC-21
636224008	KRA-GRL-FD-03
636224009	KRA-MW-24D
636224010	KRA-GWC-14
636224011	KRA-GRL-EB-05
636224012	KRA-MW-25D

636224013	KRA-GRL-EB-06
636224014	KRA-GWC-15
1205510870	Method Blank (MB)
1205510871	Laboratory Control Sample (LCS)
1205510873	636224006(KRA-GWC-16) 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	1205510873 (KRA-GWC-16DUP)	20* (0%-5%)

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for interference prior to analysis. 1205510873 (KRA-GWC-16DUP), 636224002 (KRA-GWC-12), 636224004 (KRA-GWC-20), 636224005 (KRA-GWC-11), 636224006 (KRA-GWC-16), 636224007 (KRA-GWC-21) and 636224008 (KRA-GRL-FD-03).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2489909

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636224015	KRA-GRL-FB-03
1205512280	Method Blank (MB)
1205512281	Laboratory Control Sample (LCS)
1205512284	636365001(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.

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.

636224 636228

Page: 1 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

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 Phone # 404-506-7116
 Project/Site Name: Plant Kraft - Grumman Road Landfill Fax # _____
 Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
 Collected By: *H. Anderson* 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 (6)	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-2023S2
						Radioactive (if yes, please supply isotopic info)	(7) Known or possible Hazards		Metals *	EPA 6020, 6010, 7470	Dissolved Metals *	EPA 6020, 6010, 7470	
KRA- MW-23D	09-06-23	1337	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-12	09-06-23	1325	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GRL-FB-02	09-06-23	1355	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-20	09-06-23	1417	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-11	09-06-23	1530	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-16	09-06-23	1542	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-21	09-06-23	1620	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GRL-FB-03	09-06-23	---	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- MW-24D	09-06-23	1733	G	N	WG	N	N	6	✓	✓	✓	✓	
KRA- GWC-14	09-06-23	1700	G	N	WG	N	N	6	✓	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	9/7/23	1337	<i>[Signature]</i>	9/7/23	1537
2					
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:

> 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, WO=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 = Hexamine, 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

Handwritten Notes:
 cooler 1-3
 cools 2-2
 cooler 3-2
 cooler 4-3
 cooler 5-4

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 (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)					Preservative Type (6)	Comments	
						(7) Known or isotopic info. Yes, please supply	(7) Possible Hazards	NI	NI	NI	NI	NI			NI
KRA-GRU-EB-05	09/04/23	1730	G	N	WW	N	N	6	✓	✓	✓	✓	✓	QC	Note: extra sample is required for sample specific Task Code: KRA-CCR-ASSMT-202352
KRA-MW-25D	09/07/23	0913	G	N	WG	N	N	6	✓	✓	✓	✓	✓		
KRA-GRU-EB-06	09/07/23	0935	G	N	WW	N	N	6	✓	✓	✓	✓	✓		
KRA-GWC-15	09/07/23	0905	G	N	WG	N	N	6	✓	✓	✓	✓	✓		
KRA-GRU-FB-03	09/07/23	0955	G	N	WW	N	N	6	✓	✓	✓	✓	✓		
KRA-															
KRA-															
KRA-															
KRA-															
KRA-															

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 9/17/23 Time 1937

1. D. Johnson 9/17/23 1937
 2. _____
 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,Ph,Li,Mo,Se,TLV,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=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
 List 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.)

636224 + 636228

SAMPLE RECEIPT & REVIEW FORM

636229 + 636230

Client: <u>APCC</u>	SDG/AR/COC/Work Order: <u>ET</u>
Received By: <u>MVH</u>	Date Received: <u>9/07/2023</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"/>	<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>00</u> CPM/mR/Hr Classified as: <u>Rad 1 Rad 2 Rad 3</u>
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 <u>COCs</u> TEMP: _____
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>VOA - GEL - FB - 02 bottle time 1345</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):

PM (or PMA) review: Initials AT Date 9/8/23 Page 1 of 1

Amanda Turner

From: Betsy McDaniel <betsy.mcdaniel@atlcc.net>
Sent: Monday, September 11, 2023 8:19 AM
To: Amanda Turner; Erin Trent; Team Trent
Cc: Jurinko, Kristen Nichole; Joju Abraham; lbmidkif@southernco.com; Smilley, Michael Jay; Hodges, John Benjamin; Noelia Ruiz; Ashley Ramsey; Monte Jones; Chris Parker; Matt Malone; Hunter Auld; Dever Johnson
Subject: Grumman: Non-matching collection times (636224, 636228)
Attachments: 636224 636228 coc.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Amanda:

Please follow the COC, and use sample time 13:55 for KRA-GRL-FB-02 collected on 9/6/2023.

Betsy McDaniel

Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy, Suite 100, Roswell, Georgia 30076

Office: 770-594-5998 | Cell: 678-448-8459 | www.atlcc.net

“Our work helps produce a cleaner environment for all”



From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, September 8, 2023 5:33 PM
To: KNJURINK@SOUTHERNCO.COM; JABRAHAM@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com; Betsy McDaniel <betsy.mcdaniel@atlcc.net>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Charles Adams <charles.adams@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; Ryan Walker <ryan.walker@atlcc.net>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Non-matching collection times (636224, 636228)

Good afternoon,

We received sample "KRA-GRL-FB-02" on 9/7/23 and the collection time listed on the container is 1345, but the chain of custody lists 1355 for the collection time. Please confirm.
See attachment for reference.

Thank you!

Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

Office Main: 843.556.8171 | Fax: 843.766.1178

E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



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List of current GEL Certifications as of 21 September 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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

October 09, 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: 636228

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 07, 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. Sample container "KRA-GRL-FB-02" collection time lists 1345, but COC lists 1355. 636228003(KRA-GRL-FB-02). The laboratory received the following sample(s):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Recieved</u>
636228001	KRA-MW-23D	Ground Water	06/09/23 13:37	07/09/23 13:37
636228002	KRA-GWC-12	Ground Water	06/09/23 13:25	07/09/23 13:37
636228003	KRA-GRL-FB-02	Ground Water	06/09/23 13:55	07/09/23 13:37
636228004	KRA-GWC-20	Ground Water	06/09/23 14:17	07/09/23 13:37
636228005	KRA-GWC-11	Ground Water	06/09/23 15:30	07/09/23 13:37
636228006	KRA-GWC-16	Ground Water	06/09/23 15:42	07/09/23 13:37
636228007	KRA-GWC-21	Ground Water	06/09/23 16:20	07/09/23 13:37
636228008	KRA-GRL-FD-03	Ground Water	06/09/23 12:00	07/09/23 13:37
636228009	KRA-MW-24D	Ground Water	06/09/23 17:33	07/09/23 13:37
636228010	KRA-GWC-14	Ground Water	06/09/23 17:00	07/09/23 13:37
636228011	KRA-GRL-EB-05	Ground Water	06/09/23 17:30	07/09/23 13:37
636228012	KRA-MW-25D	Ground Water	07/09/23 09:13	07/09/23 13:37
636228013	KRA-GRL-EB-06	Ground Water	07/09/23 09:35	07/09/23 13:37
636228014	KRA-GWC-15	Ground Water	07/09/23 09:05	07/09/23 13:37



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.

Prep Methods and Prep Dates

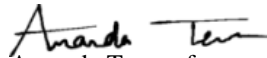
Not Applicable

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
Calculation	09-OCT-2023
EPA 903.1 Modified	06-OCT-2023
EPA 904.0/SW846 9320 Modified	29-SEP-2023

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,

A handwritten signature in black ink that reads "Amanda Turner". The signature is written in a cursive style with a horizontal line extending from the end of the name.

Amanda Turner 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: 636228 GEL Work Order: 636228

The Qualifiers in this report are defined as follows:

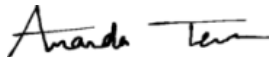
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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: October 9, 2023

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

Client Sample ID: KRA-MW-23D
 Sample ID: 636228001
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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		2.39	+/-1.33	2.01	+/-1.46	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.47	+/-1.43	2.01	+/-1.56		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.08	+/-0.522	0.567	+/-0.548	1.00	pCi/L			LXP1	10/06/23	0950	2489762	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"	2489773	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

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: October 9, 2023

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

Client Sample ID: KRA-GWC-12
 Sample ID: 636228002
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	1.06	+/-0.928	1.50	+/-0.966	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.02	+/-1.02	1.50	+/-1.07		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.963	+/-0.416	0.384	+/-0.462	1.00	pCi/L			LXP1	10/06/23	0950	2489762	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"	2489773	92.7	(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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Company : Georgia Power Company
 Address : 241 Ralph McGill Blvd NE
 Bin 10160
 Atlanta, Georgia 30308

Report Date: October 9, 2023

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

Client Sample ID: KRA-GRL-FB-02
 Sample ID: 636228003
 Matrix: WQ
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	0.551	+/-0.891	1.55	+/-0.902	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		5.28	+/-1.28	1.55	+/-1.72		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		4.73	+/-0.916	0.529	+/-1.47	1.00	pCi/L			LXP1	10/06/23	0950	2489762	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"	2489773	89.2	(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: October 9, 2023

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

Client Sample ID: KRA-GWC-20
 Sample ID: 636228004
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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		1.79	+/-1.04	1.58	+/-1.14	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.12	+/-1.12	1.58	+/-1.21		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.331	+/-0.404	0.680	+/-0.407	1.00	pCi/L			LXP1	10/06/23	0950	2489762	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"	2489773	91.6	(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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Report Date: October 9, 2023

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

Client Sample ID: KRA-GWC-11
 Sample ID: 636228005
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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		4.14	+/-1.26	1.55	+/-1.65	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		9.23	+/-1.58	1.55	+/-2.05		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		5.09	+/-0.967	0.550	+/-1.23	1.00	pCi/L			LXP1	10/06/23	0950	2489762	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"	2489773	92.8	(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: October 9, 2023

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

Client Sample ID: KRA-GWC-16
 Sample ID: 636228006
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	0.970	+/-0.707	1.07	+/-0.749	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.42	+/-1.02	1.07	+/-1.12		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.45	+/-0.737	0.645	+/-0.833	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	93	(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: October 9, 2023

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

Client Sample ID: KRA-GWC-21
 Sample ID: 636228007
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	1.09	+/-1.19	2.00	+/-1.22	3.00	pCi/L			JE1	09/29/23	0825	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.20	+/-1.45	2.00	+/-1.55		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		3.12	+/-0.821	0.712	+/-0.949	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	94.8	(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: October 9, 2023

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

Client Sample ID: KRA-GRL-FD-03
 Sample ID: 636228008
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	0.634	+/-0.688	1.14	+/-0.707	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.45	+/-0.795	1.14	+/-0.822		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.816	+/-0.398	0.347	+/-0.421	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	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: October 9, 2023

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

Client Sample ID: KRA-MW-24D
 Sample ID: 636228009
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	0.347	+/-0.564	0.999	+/-0.571	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.73	+/-0.818	0.999	+/-0.861		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.38	+/-0.593	0.629	+/-0.645	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	94.3	(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: October 9, 2023

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

Client Sample ID: KRA-GWC-14
 Sample ID: 636228010
 Matrix: WG
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	-0.00930	+/-0.682	1.32	+/-0.682	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.609	+/-0.781	1.32	+/-0.789		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.609	+/-0.381	0.481	+/-0.397	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	92.5	(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: October 9, 2023

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

Client Sample ID: KRA-GRL-EB-05
 Sample ID: 636228011
 Matrix: WQ
 Collect Date: 06-SEP-23
 Receive Date: 07-SEP-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	1.05	+/-0.917	1.48	+/-0.955	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.87	+/-0.999	1.48	+/-1.04		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.820	+/-0.398	0.432	+/-0.419	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	91	(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: October 9, 2023

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

Client Sample ID: KRA-MW-25D
 Sample ID: 636228012
 Matrix: WG
 Collect Date: 07-SEP-23
 Receive Date: 07-SEP-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	1.22	+/-0.911	1.43	+/-0.962	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.75	+/-0.968	1.43	+/-1.02		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.538	+/-0.329	0.343	+/-0.351	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	92.5	(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: October 9, 2023

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

Client Sample ID: KRA-GRL-EB-06
 Sample ID: 636228013
 Matrix: WQ
 Collect Date: 07-SEP-23
 Receive Date: 07-SEP-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	0.696	+/-0.710	1.17	+/-0.731	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.794	+/-0.735	1.17	+/-0.757		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0984	+/-0.193	0.377	+/-0.194	1.00	pCi/L			LXP1	10/06/23	1026	2489762	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"	2489773	87.6	(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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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: October 9, 2023

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

Client Sample ID: KRA-GWC-15
 Sample ID: 636228014
 Matrix: WG
 Collect Date: 07-SEP-23
 Receive Date: 07-SEP-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		1.20	+/-0.745	1.09	+/-0.805	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.28	+/-0.872	1.09	+/-0.942		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.08	+/-0.452	0.444	+/-0.488	1.00	pCi/L			LXP1	10/06/23	1103	2489762	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"	2489773	88.8	(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: October 9, 2023

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

Client Sample ID: KRA-GRL-FB-03
 Sample ID: 636228015
 Matrix: WQ
 Collect Date: 07-SEP-23
 Receive Date: 07-SEP-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		2.14	+/-1.04	1.50	+/-1.18	3.00	pCi/L			JE1	09/29/23	0826	2489773	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.16	+/-1.13	1.50	+/-1.28		pCi/L			NXL1	10/09/23	0928	2492819	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.03	+/-0.449	0.358	+/-0.504	1.00	pCi/L			LXP1	10/06/23	1103	2489762	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"	2489773	90.9	(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	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 636228**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2492819

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636228001	KRA-MW-23D
636228002	KRA-GWC-12
636228003	KRA-GRL-FB-02
636228004	KRA-GWC-20
636228005	KRA-GWC-11
636228006	KRA-GWC-16
636228007	KRA-GWC-21
636228008	KRA-GRL-FD-03
636228009	KRA-MW-24D
636228010	KRA-GWC-14
636228011	KRA-GRL-EB-05
636228012	KRA-MW-25D
636228013	KRA-GRL-EB-06
636228014	KRA-GWC-15
636228015	KRA-GRL-FB-03

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: 2489773

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636228001	KRA-MW-23D
636228002	KRA-GWC-12
636228003	KRA-GRL-FB-02
636228004	KRA-GWC-20

636228005	KRA-GWC-11
636228006	KRA-GWC-16
636228007	KRA-GWC-21
636228008	KRA-GRL-FD-03
636228009	KRA-MW-24D
636228010	KRA-GWC-14
636228011	KRA-GRL-EB-05
636228012	KRA-MW-25D
636228013	KRA-GRL-EB-06
636228014	KRA-GWC-15
636228015	KRA-GRL-FB-03
1205512013	Method Blank (MB)
1205512014	636228001(KRA-MW-23D) Sample Duplicate (DUP)
1205512015	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

Duplication Criteria between QC Sample and Duplicate Sample

The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205512014 (KRA-MW-23DDUP)	Radium-228	RPD 160* (0.0%-100.0%) RER 2.57 (0-3)

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2489762

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
636228001	KRA-MW-23D
636228002	KRA-GWC-12
636228003	KRA-GRL-FB-02
636228004	KRA-GWC-20
636228005	KRA-GWC-11
636228006	KRA-GWC-16
636228007	KRA-GWC-21
636228008	KRA-GRL-FD-03
636228009	KRA-MW-24D

636228010	KRA-GWC-14
636228011	KRA-GRL-EB-05
636228012	KRA-MW-25D
636228013	KRA-GRL-EB-06
636228014	KRA-GWC-15
636228015	KRA-GRL-FB-03
1205511931	Method Blank (MB)
1205511932	636228001(KRA-MW-23D) Sample Duplicate (DUP)
1205511933	636228001(KRA-MW-23D) Matrix Spike (MS)
1205511934	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 1205511931 (MB), 1205511934 (LCS), 636228003 (KRA-GRL-FB-02) and 636228005 (KRA-GWC-11) were degassed and recounted to verify sample results. The recount results are similar to the original results. Original results are reported

Miscellaneous Information

Additional Comments

The matrix spike, 1205511933 (KRA-MW-23DMS), 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: October 9, 2023
Page 1 of 2

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

Contact: Kristen Jurinko

Workorder: 636228

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	2489773								
QC1205512014	636228001 DUP								
Radium-228		2.39	U	0.265	pCi/L	160*	(0% - 100%)	JE1	09/29/2308:26
	Uncert:	+/-1.33		+/-0.702					
	TPU:	+/-1.46		+/-0.705					
QC1205512015	LCS								
Radium-228	74.8			68.9	pCi/L	92.2	(75%-125%)	JE1	09/29/2308:26
	Uncert:			+/-3.94					
	TPU:			+/-18.0					
QC1205512013	MB								
Radium-228			U	-0.0366	pCi/L			JE1	09/29/2308:26
	Uncert:			+/-0.905					
	TPU:			+/-0.905					
Rad Ra-226									
Batch	2489762								
QC1205511932	636228001 DUP								
Radium-226		1.08		0.665	pCi/L	47.3	(0% - 100%)	LXP1	10/06/2311:03
	Uncert:	+/-0.522		+/-0.383					
	TPU:	+/-0.548		+/-0.408					
QC1205511934	LCS								
Radium-226	26.4			27.1	pCi/L	103	(75%-125%)	LXP1	10/06/2311:03
	Uncert:			+/-2.33					
	TPU:			+/-4.87					
QC1205511931	MB								
Radium-226			U	0.000	pCi/L			LXP1	10/06/2311:04
	Uncert:			+/-0.302					
	TPU:			+/-0.302					
QC1205511933	636228001 MS								
Radium-226	125	1.08		114	pCi/L	90.4	(75%-125%)	LXP1	10/06/2311:03
	Uncert:	+/-0.522		+/-9.80					
	TPU:	+/-0.548		+/-21.3					

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- 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: 636228

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.

036224 036228

Page: 1 of 2
 Project # _____
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Work Order Number: _____
 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 # _____

Collected By: H. Au & D. Johnson
 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)	Should this sample be considered:		Sample Analysis Requested (5) (Fill in the number of containers for each test)					Comments
						Radioactive (if yes, please supply isotopic info)	(7) Known or Possible Hazards	NI	NI	NI	NI	NI	
KRA-MW-23D	09-06-23	1337	G	N	WG	N	N	✓	✓	✓	✓	✓	QC
KRA-GWC-12	09-06-23	1325	G	N	WG	N	N	✓	✓	✓	✓	✓	Task Code: KRA-CCR-ASSMT-2023S2
KRA-GRL-FB-02	09-06-23	1355	G	N	WB	N	N	✓	✓	✓	✓	✓	
KRA-GWC-20	09-06-23	1417	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-GWC-11	09-06-23	1530	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-GWC-16	09-06-23	1542	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-GWC-21	09-06-23	1620	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-GRL-FD-03	09-06-23	---	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-MW-24D	09-06-23	1733	G	N	WG	N	N	✓	✓	✓	✓	✓	
KRA-GWC-14	09-06-23	1700	G	N	WG	N	N	✓	✓	✓	✓	✓	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[Signature]	9/7/23	1337	[Signature]	9/7/23	1337

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, 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: 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): _____

RCRA Metals
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 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.)

cooler 1-3
 cooler 2-2
 cooler 3-2
 cooler 4-3
 cooler 5-4

Page: 2 of 2
 Project # _____
 GEL Quote #: _____
 COC Number: _____
 PO Number: _____



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: _____
 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: **H. Auld**
D. Johnson ACC
 Send Results To: SCS & ACC Contacts

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (e)	Field Filtered (b)	Sample Matrix (d)	Should this sample be considered:		Sample Analysis Requested (s) (Fill in the number of containers for each test)		Comments
						Radiative (f)	Yes, please supply isotopic info	(?) Known or possible hazards	Total number of containers	
KRA-GRL-EB-05	09/04/23	1730	G	N	WG	N	N	6	NI	QC
KRA-MW-25D	09/07/23	0913	G	N	WG	N	N	6	NI	Note: extra sample is required for sample specific
KRA-GRL-EB-06	09/07/23	0935	G	N	WG	N	N	6	NI	Task Code: KRA-CCR-ASSMT-2023S2
KRA-GWC-15	09/07/23	0905	G	N	WG	N	N	6	NI	
KRA-FB-03	09/07/23	0955	G	N	WG	N	N	6	NI	
KRA-										
KRA-										
KRA-										
KRA-										
KRA-										

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>[Signature]</i>	9/7/23	1337	<i>[Signature]</i>	9/12/23	1937

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=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	Listed Waste	Other
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		

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

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.)

636224 + 636228

SAMPLE RECEIPT & REVIEW FORM

636229 + 636230

Client: <u>APCC</u>		SDG/AR/COC/Work Order:	
Received By: <u>MVH</u>		Date Received: <u>09-07-2023</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other	
Suspected Hazard Information		Yes	No
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Receipt Criteria		Yes	No
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials AT Date 9/8/23 Page 1 of 1

Amanda Turner

From: Betsy McDaniel <betsy.mcdaniel@atlcc.net>
Sent: Monday, September 11, 2023 8:19 AM
To: Amanda Turner; Erin Trent; Team Trent
Cc: Jurinko, Kristen Nichole; Joju Abraham; lbmidkif@southernco.com; Smilley, Michael Jay; Hodges, John Benjamin; Noelia Ruiz; Ashley Ramsey; Monte Jones; Chris Parker; Matt Malone; Hunter Auld; Dever Johnson
Subject: Grumman: Non-matching collection times (636224, 636228)
Attachments: 636224 636228 coc.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Amanda:

Please follow the COC, and use sample time 13:55 for KRA-GRL-FB-02 collected on 9/6/2023.

Betsy McDaniel

Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy, Suite 100, Roswell, Georgia 30076

Office: 770-594-5998 | Cell: 678-448-8459 | www.atlcc.net

“Our work helps produce a cleaner environment for all”



From: Amanda Turner <Amanda.Turner@gel.com>
Sent: Friday, September 8, 2023 5:33 PM
To: KNJURINK@SOUTHERNCO.COM; JABRAHAM@SOUTHERNCO.COM; MJSMILLE@SOUTHERNCO.COM; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com; Betsy McDaniel <betsy.mcdaniel@atlcc.net>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Charles Adams <charles.adams@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; Ryan Walker <ryan.walker@atlcc.net>
Cc: Team Trent <Team.Trent@gel.com>
Subject: Non-matching collection times (636224, 636228)

Good afternoon,

We received sample "KRA-GRL-FB-02" on 9/7/23 and the collection time listed on the container is 1345, but the chain of custody lists 1355 for the collection time. Please confirm.
See attachment for reference.

Thank you!

Amanda

Amanda Turner
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: amanda.turner@gel.com | Website: www.gel.com

Analytical Testing



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List of current GEL Certifications as of 09 October 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	T104704235-23-21
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

APPENDIX A

*Laboratory Data Validations
August 2023 Monitoring Event*

LEVEL 2A LABORATORY DATA VALIDATIONS

**Grumman Road
Semiannual Event
August 2023**

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – August 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 August 28, 2023 and September 7, 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 635308 was revised due to reanalysis that corrected errant arsenic data. The SDG 636224 reanalysis confirmed original data.

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 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 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 total dissolved solids (TDS) on KRA-GWC-16 (636224006) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, except for radium-226 on KRA-GWC-13 (635316009) and KRA-GWC-21 (636228007) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met, except for barium on KRA-GWA-7 (635308001) and chloride and fluoride on KRA-MW-23D (636224001) 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:

- B:** The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.
- 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 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-GWA-7 (635308001) was qualified as estimated (J) for barium as the laboratory post spike (PS) exceeded QC criteria (133% above range of 75-125).
- Sample KRA-GWA-7 (635308001) was qualified as estimated (J) for barium as the matrix spike (MS) and matrix spike duplicate (MSD) exceeded QC criteria (127% and 139%, respectively, above range of 75-125).
- Sample KRA-MW-23D (636224001) was qualified as estimated (J) for chloride and fluoride as the laboratory PS exceeded QC criteria (135% and 112%, respectively, above range of 90-110).
- Samples KRA-GWC-13 (635316009) and KRA-GRL-FD-01 (635316012) were qualified as estimated (J) for radium-226 as the field relative percent difference (RPD) exceeded QC criteria (92.3% above limit of 20).
- Sample KRA-GWC-16 (636224006) was qualified as estimated (J) for TDS as the laboratory RPD exceeded QC criteria (20% above limit of 5).
- Samples KRA-GWC-21 (636228007) and KRA-GRL-FD-03 (636228008) were qualified as estimated (J) for radium-226 as the field RPD exceeded QC criteria (117.1% above limit of 20).
- Sample KRA-MW-23D (636228001) was qualified as estimated (J) for radium-228 as the laboratory RPD exceeded QC criteria (160% above limit of 100%).
- Certain fluoride and/or chloride results on work orders 635308 and 636224 were qualified as blank detections (B) due to the analytes being detected in field and/or equipment blank samples, as shown in Table 2.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between August 28, 2023 and September 7, 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 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Georgia Power Company – Grumman Road
 Sample Summary Table – August 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)
635308	KRA-GWA-7	08/28/23	635308001	WG		X	X	X	
635316	KRA-GWA-7	08/28/23	635316001	WG					X
635308	KRA-GWA-8	08/28/23	635308002	WG		X	X	X	
635316	KRA-GWA-8	08/28/23	635316002	WG					X
635308	KRA-GWB-4R	08/29/23	635308003	WG		X	X	X	
635316	KRA-GWB-4R	08/29/23	635316003	WG					X
635308	KRA-GWB-5R	08/29/23	635308004	WG		X	X	X	
635316	KRA-GWB-5R	08/29/23	635316004	WG					X
635308	KRA-GWB-6R	08/29/23	635308005	WG		X	X	X	
635316	KRA-GWB-6R	08/29/23	635316005	WG					X
635308	KRA-GWC-1	08/29/23	635308006	WG		X	X	X	
635316	KRA-GWC-1	08/29/23	635316006	WG					X
635308	KRA-GWC-2	08/29/23	635308007	WG		X	X	X	
635316	KRA-GWC-2	08/29/23	635316007	WG					X
635308	KRA-GWC-9	08/29/23	635308008	WG		X	X	X	
635316	KRA-GWC-9	08/29/23	635316008	WG					X
635308	KRA-GWC-13	08/29/23	635308009	WG		X	X	X	
635316	KRA-GWC-13	08/29/23	635316009	WG					X
635308	KRA-GWC-17	08/29/23	635308010	WG		X	X	X	
635316	KRA-GWC-17	08/29/23	635316010	WG					X
635308	KRA-GWC-22	08/29/23	635308011	WG		X	X	X	
635316	KRA-GWC-22	08/29/23	635316011	WG					X
635308	KRA-GRL-FD-01	08/29/23	635308012	WG	FD (KRA-GWC-13)	X	X	X	
635316	KRA-GRL-FD-01	08/29/23	635316012	WG	FD (KRA-GWC-13)				X
635308	KRA-GRL-FD-02	08/29/23	635308013	WG	FD (KRA-GWC-1)	X	X	X	
635316	KRA-GRL-FD-02	08/29/23	635316013	WG	FD (KRA-GWC-1)				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

Grumman Road Private Industrial Landfill
 2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – August 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)
635308	KRA-GRL-FB-01	08/29/23	635308014	WQ	FB	X	X	X	
635316	KRA-GRL-FB-01	08/29/23	635316014	WQ	FB				X
635308	KRA-GRL-EB-04	08/29/23	635308015	WQ	EB	X	X	X	
635316	KRA-GRL-EB-04	08/29/23	635316015	WQ	EB				X
635308	KRA-GWA-7	08/28/23	635308016	WG		X			
636224	KRA-MW-23D	09/06/23	636224001	WG		X	X	X	
636228	KRA-MW-23D	09/06/23	636228001	WG					X
636224	KRA-GWC-12	09/06/23	636224002	WG		X	X	X	
636228	KRA-GWC-12	09/06/23	636228002	WG					X
636224	KRA-GRL-FB-02	09/06/23	636224003	WQ	FB	X	X	X	
636228	KRA-GRL-FB-02	09/06/23	636228003	WQ	FB				X
636224	KRA-GWC-20	09/06/23	636224004	WG		X	X	X	
636228	KRA-GWC-20	09/06/23	636228004	WG					X
636224	KRA-GWC-11	09/06/23	636224005	WG		X	X	X	
636228	KRA-GWC-11	09/06/23	636228005	WG					X
636224	KRA-GWC-16	09/06/23	636224006	WG		X	X	X	
636228	KRA-GWC-16	09/06/23	636228006	WG					X
636224	KRA-GWC-21	09/06/23	636224007	WG		X	X	X	
636228	KRA-GWC-21	09/06/23	636228007	WG					X
636224	KRA-GRL-FD-03	09/06/23	636224008	WG	FD (KRA-GWC-21)	X	X	X	
636228	KRA-GRL-FD-03	09/06/23	636228008	WG	FD (KRA-GWC-21)				X
636224	KRA-MW-24D	09/06/23	636224009	WG		X	X	X	
636228	KRA-MW-24D	09/06/23	636228009	WG					X
636224	KRA-GWC-14	09/06/23	636224010	WG		X	X	X	
636228	KRA-GWC-14	09/06/23	636228010	WG					X
636224	KRA-GRL-EB-05	09/06/23	636224011	WQ	EB	X	X	X	
636228	KRA-GRL-EB-05	09/06/23	636228011	WQ	EB				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

Grumman Road Private Industrial Landfill
 2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – August 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)
636224	KRA-MW-25D	09/07/23	636224012	WG		X	X	X	
636228	KRA-MW-25D	09/07/23	636228012	WG					X
636224	KRA-GRL-EB-06	09/07/23	636224013	WQ	EB	X	X	X	
636228	KRA-GRL-EB-06	09/07/23	636228013	WQ	EB				X
636224	KRA-GWC-15	09/07/23	636224014	WG		X	X	X	
636228	KRA-GWC-15	09/07/23	636228014	WG					X
636224	KRA-GRL-FB-03	09/07/23	636224015	WQ	FB	X	X	X	
636228	KRA-GRL-FB-03	09/07/23	636228015	WQ	FB				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

Grumman Road Private Industrial Landfill
 2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Georgia Power Company – Grumman Road
 Qualifier Summary Table – August 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
636224	KRA-GWC-16	TDS			J	RPD exceeds lab goal
635308	KRA-GRL-FB-01	Fluoride			B	Blank detection
635308	KRA-GRL-EB-04	Fluoride			B	Blank detection
636224	KRA-GRL-FB-02	Fluoride			B	Blank detection
636224	KRA-GRL-EB-05	Fluoride			B	Blank detection
636224	KRA-GRL-EB-05	Chloride			B	Blank detection
636224	KRA-GRL-EB-06	Fluoride			B	Blank detection
636224	KRA-GRL-FB-03	Fluoride			B	Blank detection
635316	KRA-GWC-13	Radium-226			J	RPD exceeds field goal
635316	KRA-GRL-FD-01	Radium-226			J	RPD exceeds field goal
636228	KRA-GWC-21	Radium-226			J	RPD exceeds field goal
636228	KRA-GRL-FD-03	Radium-226			J	RPD exceeds field goal
636228	KRA-MW-23D	Radium-228			J	RPD exceeds lab goal
636224	KRA-MW-23D	Chloride			J	PS outside QC criteria
636224	KRA-MW-23D	Fluoride			J	PS outside QC criteria
635308	KRA-GWA-7	Barium			J	MS/MSD outside QC criteria
635308	KRA-GWA-7	Barium			J	PS 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:

B – Field or Equipment Blank Detection
 J – Estimated Result
 ND – Non-Detect Result

APPENDIX A

*Field Sampling Reports
August 2023 Monitoring Event*

Low-Flow Test Report:

Test Date / Time: 8/29/2023 3:10:21 PM

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: 19.22 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1540. Overcast 80s. FD-2 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 3:10 PM	00:00	5.23 pH	25.39 °C	144.92 µS/cm	1.01 mg/L	1.86 NTU	162.4 mV	19.22 ft	250.00 ml/min
8/29/2023 3:15 PM	05:00	5.12 pH	23.66 °C	146.78 µS/cm	0.27 mg/L	1.70 NTU	158.2 mV	19.30 ft	250.00 ml/min
8/29/2023 3:20 PM	10:00	5.54 pH	23.15 °C	220.06 µS/cm	0.13 mg/L	0.75 NTU	173.9 mV	19.30 ft	250.00 ml/min
8/29/2023 3:25 PM	15:00	5.64 pH	23.08 °C	241.41 µS/cm	0.11 mg/L	0.54 NTU	123.9 mV	19.30 ft	250.00 ml/min
8/29/2023 3:30 PM	20:00	5.67 pH	22.96 °C	246.48 µS/cm	0.10 mg/L	0.39 NTU	119.4 mV	19.30 ft	250.00 ml/min
8/29/2023 3:35 PM	25:00	5.67 pH	22.90 °C	248.35 µS/cm	0.09 mg/L	0.50 NTU	119.7 mV	19.30 ft	250.00 ml/min
8/29/2023 3:40 PM	30:00	5.68 pH	23.11 °C	249.16 µS/cm	0.09 mg/L	0.47 NTU	118.6 mV	19.30 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 2:40:27 PM

Project: Grumman Road Landfill

Operator Name: D. 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: 19.51 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sample time 1505.

Stormy, 86 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 2:40 PM	00:00	4.61 pH	32.63 °C	97.67 µS/cm	5.44 mg/L	10.22 NTU	118.5 mV	19.51 ft	250.00 ml/min
8/29/2023 2:45 PM	05:00	4.60 pH	25.35 °C	51.97 µS/cm	0.66 mg/L	9.31 NTU	103.4 mV	19.52 ft	250.00 ml/min
8/29/2023 2:50 PM	10:00	4.61 pH	24.23 °C	51.59 µS/cm	0.32 mg/L	6.85 NTU	118.4 mV	19.54 ft	250.00 ml/min
8/29/2023 2:55 PM	15:00	4.61 pH	23.95 °C	51.77 µS/cm	0.25 mg/L	4.40 NTU	113.2 mV	19.56 ft	250.00 ml/min
8/29/2023 3:00 PM	20:00	4.64 pH	23.80 °C	50.88 µS/cm	0.20 mg/L	3.68 NTU	109.4 mV	19.56 ft	250.00 ml/min
8/29/2023 3:05 PM	25:00	4.68 pH	23.69 °C	50.65 µS/cm	0.17 mg/L	3.28 NTU	105.2 mV	19.56 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:15:04 PM

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: 14.65 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 10.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
---	--	--

Test Notes:

Sample time 1415. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 1:15 PM	00:00	5.39 pH	29.32 °C	781.40 µS/cm	0.80 mg/L	6.31 NTU	110.1 mV	14.65 ft	175.00 ml/min
8/29/2023 1:20 PM	05:00	5.45 pH	26.11 °C	816.62 µS/cm	0.20 mg/L	6.95 NTU	128.7 mV	14.65 ft	175.00 ml/min
8/29/2023 1:25 PM	10:00	5.48 pH	25.61 °C	832.06 µS/cm	0.14 mg/L	7.11 NTU	107.6 mV	14.65 ft	175.00 ml/min
8/29/2023 1:30 PM	15:00	5.53 pH	25.72 °C	856.04 µS/cm	0.12 mg/L	6.01 NTU	94.0 mV	14.65 ft	175.00 ml/min
8/29/2023 1:35 PM	20:00	5.59 pH	25.47 °C	899.97 µS/cm	0.09 mg/L	5.99 NTU	85.5 mV	14.65 ft	175.00 ml/min
8/29/2023 1:40 PM	25:00	5.66 pH	25.33 °C	950.30 µS/cm	0.08 mg/L	5.38 NTU	73.1 mV	14.65 ft	175.00 ml/min
8/29/2023 1:45 PM	30:00	5.71 pH	25.57 °C	987.81 µS/cm	0.06 mg/L	6.74 NTU	65.9 mV	14.65 ft	175.00 ml/min
8/29/2023 1:50 PM	35:00	5.75 pH	25.49 °C	1,009.0 µS/cm	0.06 mg/L	7.38 NTU	55.8 mV	14.65 ft	175.00 ml/min
8/29/2023 1:55 PM	40:00	5.78 pH	25.41 °C	1,038.2 µS/cm	0.05 mg/L	6.84 NTU	48.2 mV	14.65 ft	175.00 ml/min
8/29/2023 2:00 PM	45:00	5.80 pH	24.80 °C	1,050.4 µS/cm	0.06 mg/L	5.58 NTU	40.6 mV	14.65 ft	175.00 ml/min
8/29/2023 2:05 PM	50:00	5.81 pH	24.77 °C	1,065.6 µS/cm	0.06 mg/L	3.86 NTU	41.6 mV	14.65 ft	175.00 ml/min
8/29/2023 2:10 PM	55:00	5.81 pH	25.38 °C	1,069.2 µS/cm	0.04 mg/L	2.31 NTU	43.7 mV	14.65 ft	175.00 ml/min
8/29/2023 2:15 PM	01:00:00	5.82 pH	25.26 °C	1,082.1 µS/cm	0.05 mg/L	1.44 NTU	39.2 mV	14.65 ft	175.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/29/2023 12:00:12 PM

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: 16.5 ft Total Depth: 26.5 ft Initial Depth to Water: 10 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1235. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 12:00 PM	00:00	4.92 pH	30.17 °C	511.89 µS/cm	1.76 mg/L	7.31 NTU	83.3 mV	10.00 ft	200.00 ml/min
8/29/2023 12:05 PM	05:00	4.89 pH	26.05 °C	537.39 µS/cm	0.50 mg/L	2.08 NTU	72.2 mV	10.40 ft	200.00 ml/min
8/29/2023 12:10 PM	10:00	4.92 pH	25.56 °C	552.89 µS/cm	0.28 mg/L	1.53 NTU	62.6 mV	10.40 ft	200.00 ml/min
8/29/2023 12:15 PM	15:00	4.98 pH	24.97 °C	566.23 µS/cm	0.14 mg/L	0.90 NTU	62.9 mV	10.40 ft	200.00 ml/min
8/29/2023 12:20 PM	20:00	5.04 pH	24.79 °C	583.07 µS/cm	0.09 mg/L	1.12 NTU	49.1 mV	10.40 ft	200.00 ml/min
8/29/2023 12:25 PM	25:00	5.09 pH	24.79 °C	580.62 µS/cm	0.09 mg/L	1.04 NTU	57.3 mV	10.40 ft	200.00 ml/min
8/29/2023 12:30 PM	30:00	5.15 pH	24.69 °C	609.21 µS/cm	0.07 mg/L	0.99 NTU	51.7 mV	10.40 ft	200.00 ml/min
8/29/2023 12:35 PM	35:00	5.17 pH	24.69 °C	610.74 µS/cm	0.06 mg/L	1.33 NTU	33.4 mV	10.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 10:25:06 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: 12.7 ft Total Depth: 22.7 ft Initial Depth to Water: 7.84 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1115. Sunny 80s. FB-01 here at 1050.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 10:25 AM	00:00	5.31 pH	26.32 °C	1,016.4 µS/cm	0.28 mg/L	3.75 NTU	60.6 mV	7.84 ft	200.00 ml/min
8/29/2023 10:30 AM	05:00	5.32 pH	25.77 °C	1,043.9 µS/cm	0.18 mg/L	3.19 NTU	62.8 mV	8.00 ft	200.00 ml/min
8/29/2023 10:35 AM	10:00	5.33 pH	25.55 °C	1,056.1 µS/cm	0.13 mg/L	1.53 NTU	58.2 mV	8.00 ft	200.00 ml/min
8/29/2023 10:40 AM	15:00	5.33 pH	25.68 °C	1,064.9 µS/cm	0.10 mg/L	1.46 NTU	69.5 mV	8.00 ft	200.00 ml/min
8/29/2023 10:45 AM	20:00	5.34 pH	25.73 °C	1,084.9 µS/cm	0.08 mg/L	9.35 NTU	71.0 mV	8.00 ft	200.00 ml/min
8/29/2023 10:50 AM	25:00	5.34 pH	25.52 °C	1,098.0 µS/cm	0.07 mg/L	2.38 NTU	68.4 mV	8.00 ft	200.00 ml/min
8/29/2023 10:55 AM	30:00	5.34 pH	25.27 °C	1,098.1 µS/cm	0.07 mg/L	3.38 NTU	65.2 mV	8.00 ft	200.00 ml/min
8/29/2023 11:00 AM	35:00	5.33 pH	25.75 °C	962.03 µS/cm	0.14 mg/L	6.76 NTU	78.5 mV	8.00 ft	200.00 ml/min
8/29/2023 11:05 AM	40:00	5.33 pH	25.87 °C	1,087.5 µS/cm	0.09 mg/L	4.74 NTU	70.9 mV	8.00 ft	200.00 ml/min
8/29/2023 11:10 AM	45:00	5.34 pH	25.74 °C	1,117.0 µS/cm	0.05 mg/L	4.29 NTU	68.3 mV	8.00 ft	200.00 ml/min
8/29/2023 11:15 AM	50:00	5.33 pH	25.57 °C	1,121.4 µS/cm	0.04 mg/L	2.65 NTU	68.1 mV	8.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/28/2023 3:55:20 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: 6.42 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 1635. Sunny 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2023 3:55 PM	00:00	5.91 pH	25.93 °C	1,028.1 µS/cm	0.04 mg/L	117.00 NTU	-22.9 mV	6.42 ft	225.00 ml/min
8/28/2023 4:00 PM	05:00	5.92 pH	24.94 °C	1,057.4 µS/cm	0.04 mg/L	130.00 NTU	-43.5 mV	7.00 ft	225.00 ml/min
8/28/2023 4:05 PM	10:00	5.93 pH	24.91 °C	1,045.4 µS/cm	0.02 mg/L	118.00 NTU	-22.9 mV	7.00 ft	225.00 ml/min
8/28/2023 4:10 PM	15:00	5.93 pH	24.69 °C	1,047.6 µS/cm	0.02 mg/L	128.00 NTU	-23.9 mV	7.00 ft	225.00 ml/min
8/28/2023 4:15 PM	20:00	5.94 pH	24.58 °C	1,055.9 µS/cm	0.01 mg/L	103.00 NTU	-50.2 mV	7.00 ft	225.00 ml/min
8/28/2023 4:20 PM	25:00	5.94 pH	24.69 °C	1,050.1 µS/cm	0.01 mg/L	102.00 NTU	-26.1 mV	7.00 ft	225.00 ml/min
8/28/2023 4:25 PM	30:00	5.94 pH	24.57 °C	1,051.0 µS/cm	0.01 mg/L	101.00 NTU	-26.1 mV	7.00 ft	225.00 ml/min
8/28/2023 4:30 PM	35:00	5.94 pH	24.57 °C	1,058.5 µS/cm	0.42 mg/L	102.00 NTU	-21.6 mV	7.00 ft	225.00 ml/min
8/28/2023 4:35 PM	40:00	5.94 pH	24.56 °C	1,052.2 µS/cm	0.01 mg/L	99.50 NTU	-49.3 mV	7.00 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/28/2023 4:16:36 PM

Project: Grumman Road Landfill

Operator Name: D. Johnson

Location Name: GWA-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 15.9 ft Total Depth: 20.9 ft Initial Depth to Water: 7.04 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 17.9 ft Estimated Total Volume Pumped: 10.11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 19.44 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sample time 1707.

Sunny, 90 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2023 4:16 PM	00:00	5.15 pH	32.31 °C	127.49 µS/cm	0.70 mg/L	3.96 NTU	71.9 mV	7.04 ft	200.00 ml/min
8/28/2023 4:21 PM	05:00	5.12 pH	29.00 °C	127.56 µS/cm	0.19 mg/L	4.39 NTU	69.4 mV	8.22 ft	200.00 ml/min
8/28/2023 4:26 PM	10:00	5.12 pH	28.06 °C	125.91 µS/cm	0.12 mg/L	4.46 NTU	58.0 mV	8.36 ft	200.00 ml/min
8/28/2023 4:31 PM	15:00	5.09 pH	27.60 °C	133.39 µS/cm	0.11 mg/L	4.52 NTU	47.3 mV	8.36 ft	200.00 ml/min
8/28/2023 4:36 PM	20:00	4.97 pH	27.20 °C	141.79 µS/cm	0.09 mg/L	4.21 NTU	40.7 mV	8.47 ft	200.00 ml/min
8/28/2023 4:41 PM	25:00	4.84 pH	26.91 °C	155.55 µS/cm	0.08 mg/L	4.08 NTU	37.0 mV	8.53 ft	200.00 ml/min
8/28/2023 4:46 PM	30:00	4.72 pH	26.77 °C	176.69 µS/cm	0.07 mg/L	4.46 NTU	34.5 mV	8.58 ft	200.00 ml/min
8/28/2023 4:51 PM	35:00	4.66 pH	26.49 °C	191.42 µS/cm	0.06 mg/L	3.02 NTU	32.5 mV	8.61 ft	200.00 ml/min
8/28/2023 4:56 PM	40:00	4.65 pH	26.32 °C	197.00 µS/cm	0.06 mg/L	2.85 NTU	30.8 mV	8.66 ft	200.00 ml/min
8/28/2023 5:01 PM	45:00	4.64 pH	26.22 °C	200.12 µS/cm	0.06 mg/L	2.82 NTU	29.3 mV	8.66 ft	200.00 ml/min
8/28/2023 5:02 PM	45:35	4.64 pH	26.22 °C	201.22 µS/cm	0.06 mg/L	2.81 NTU	29.5 mV	8.66 ft	200.00 ml/min
8/28/2023 5:07 PM	50:35	4.62 pH	26.21 °C	204.61 µS/cm	0.06 mg/L	2.91 NTU	28.1 mV	8.66 ft	200.00 ml/min

Samples

Low-Flow Test Report:

Test Date / Time: 8/28/2023 5:25:16 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: 9.1 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in 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: 178 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Well purged dry, not sampled. 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	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2023 5:25 PM	00:00	4.72 pH	24.58 °C	94.13 µS/cm	0.28 mg/L	2.52 NTU	25.3 mV	9.10 ft	200.00 ml/min
8/28/2023 5:30 PM	05:00	4.76 pH	23.70 °C	96.42 µS/cm	0.14 mg/L	1.73 NTU	21.6 mV	12.30 ft	200.00 ml/min
8/28/2023 5:35 PM	10:00	4.77 pH	23.93 °C	96.47 µS/cm	0.12 mg/L	2.11 NTU	24.5 mV	14.20 ft	200.00 ml/min
8/28/2023 5:40 PM	15:00	4.79 pH	23.77 °C	97.00 µS/cm	0.11 mg/L	1.91 NTU	23.9 mV	16.00 ft	200.00 ml/min
8/28/2023 5:45 PM	20:00	4.81 pH	23.88 °C	97.23 µS/cm	0.11 mg/L	2.07 NTU	23.9 mV	17.70 ft	200.00 ml/min
8/28/2023 5:50 PM	25:00	4.82 pH	23.79 °C	97.53 µS/cm	0.12 mg/L	1.39 NTU	24.7 mV	19.00 ft	200.00 ml/min
8/28/2023 5:55 PM	30:00	4.83 pH	23.49 °C	97.56 µS/cm	0.13 mg/L	1.64 NTU	27.1 mV	20.90 ft	200.00 ml/min
8/28/2023 6:00 PM	35:00	4.84 pH	23.42 °C	96.82 µS/cm	0.21 mg/L	1.73 NTU	33.4 mV	21.70 ft	200.00 ml/min
8/28/2023 6:05 PM	40:00	4.85 pH	23.41 °C	96.09 µS/cm	0.45 mg/L	5.36 NTU	45.2 mV	23.90 ft	200.00 ml/min
8/28/2023 6:10 PM	45:00	5.06 pH	24.09 °C	88.43 µS/cm	5.64 mg/L	4.79 NTU	37.5 mV	26.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 9:10:56 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: 9.58 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 1.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 42 in	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Sample time 0925. Overcast 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 9:10 AM	00:00	4.54 pH	23.83 °C	91.58 µS/cm	0.35 mg/L	1.21 NTU	95.4 mV	9.58 ft	100.00 ml/min
8/29/2023 9:15 AM	05:00	4.55 pH	23.21 °C	91.01 µS/cm	0.31 mg/L	1.30 NTU	94.3 mV	11.30 ft	100.00 ml/min
8/29/2023 9:20 AM	10:00	4.56 pH	23.21 °C	90.83 µS/cm	0.24 mg/L	1.16 NTU	84.6 mV	11.30 ft	100.00 ml/min
8/29/2023 9:25 AM	15:00	4.56 pH	23.22 °C	90.69 µS/cm	0.19 mg/L	0.99 NTU	82.0 mV	13.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 2:15:06 PM

Project: Grumman Road Landfill

Operator Name: D. Johnson

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: 13.32 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 19.6 ft Estimated Total Volume Pumped: 11.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 42 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 1530.

Sunny, 92 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 2:15 PM	00:00	5.27 pH	30.62 °C	762.20 µS/cm	2.15 mg/L	9.25 NTU	89.9 mV	13.32 ft	150.00 ml/min
9/6/2023 2:20 PM	05:00	5.00 pH	25.89 °C	740.27 µS/cm	0.09 mg/L	4.05 NTU	88.3 mV	14.91 ft	150.00 ml/min
9/6/2023 2:25 PM	10:00	5.07 pH	25.77 °C	742.41 µS/cm	0.04 mg/L	2.87 NTU	87.5 mV	15.55 ft	150.00 ml/min
9/6/2023 2:30 PM	15:00	5.08 pH	25.30 °C	791.12 µS/cm	0.04 mg/L	2.26 NTU	90.1 mV	15.68 ft	150.00 ml/min
9/6/2023 2:35 PM	20:00	5.08 pH	25.11 °C	861.09 µS/cm	0.04 mg/L	2.12 NTU	92.6 mV	16.24 ft	150.00 ml/min
9/6/2023 2:40 PM	25:00	5.09 pH	25.17 °C	913.61 µS/cm	0.03 mg/L	3.04 NTU	94.6 mV	16.51 ft	150.00 ml/min
9/6/2023 2:45 PM	30:00	5.06 pH	25.14 °C	973.01 µS/cm	0.05 mg/L	2.78 NTU	96.2 mV	16.61 ft	150.00 ml/min
9/6/2023 2:50 PM	35:00	5.09 pH	25.28 °C	1,032.5 µS/cm	0.06 mg/L	2.71 NTU	98.4 mV	16.71 ft	150.00 ml/min
9/6/2023 2:55 PM	40:00	5.08 pH	25.39 °C	1,094.1 µS/cm	0.07 mg/L	2.72 NTU	100.2 mV	16.77 ft	150.00 ml/min
9/6/2023 3:00 PM	45:00	5.08 pH	25.23 °C	1,154.4 µS/cm	0.08 mg/L	2.28 NTU	102.2 mV	16.81 ft	150.00 ml/min
9/6/2023 3:05 PM	50:00	5.07 pH	25.12 °C	1,204.3 µS/cm	0.09 mg/L	1.94 NTU	103.6 mV	16.81 ft	150.00 ml/min
9/6/2023 3:10 PM	55:00	5.07 pH	25.27 °C	1,269.0 µS/cm	0.09 mg/L	1.74 NTU	105.6 mV	16.82 ft	150.00 ml/min
9/6/2023 3:15 PM	01:00:00	5.07 pH	25.19 °C	1,306.7 µS/cm	0.08 mg/L	1.69 NTU	107.0 mV	16.82 ft	150.00 ml/min
9/6/2023 3:20 PM	01:05:00	5.07 pH	25.03 °C	1,361.4 µS/cm	0.07 mg/L	1.46 NTU	108.4 mV	16.82 ft	150.00 ml/min

9/6/2023 3:25 PM	01:10:00	5.05 pH	25.03 °C	1,396.3 μ S/cm	0.08 mg/L	1.14 NTU	109.6 mV	16.82 ft	150.00 ml/min
9/6/2023 3:30 PM	01:15:00	5.05 pH	25.00 °C	1,417.0 μ S/cm	0.08 mg/L	1.11 NTU	110.3 mV	16.82 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 12:40:53 PM

Project: Grumman Road Landfill

Operator Name: D. 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: 12.83 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 23.54 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.08 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 1325.

Sunny, 89 degrees F.

FB-02 here at 1355.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 12:40 PM	00:00	5.52 pH	31.96 °C	801.67 µS/cm	4.35 mg/L	1.52 NTU	93.3 mV	12.83 ft	200.00 ml/min
9/6/2023 12:45 PM	05:00	4.52 pH	26.34 °C	745.54 µS/cm	0.06 mg/L	1.01 NTU	86.8 mV	12.99 ft	200.00 ml/min
9/6/2023 12:50 PM	10:00	4.52 pH	26.02 °C	749.53 µS/cm	0.02 mg/L	1.53 NTU	82.3 mV	13.16 ft	200.00 ml/min
9/6/2023 12:55 PM	15:00	4.51 pH	25.93 °C	745.58 µS/cm	0.01 mg/L	0.90 NTU	80.0 mV	13.17 ft	200.00 ml/min
9/6/2023 1:00 PM	20:00	4.45 pH	25.76 °C	789.38 µS/cm	0.01 mg/L	0.55 NTU	79.4 mV	13.17 ft	200.00 ml/min
9/6/2023 1:05 PM	25:00	4.40 pH	25.51 °C	849.21 µS/cm	0.01 mg/L	0.35 NTU	78.2 mV	13.17 ft	200.00 ml/min
9/6/2023 1:10 PM	30:00	4.38 pH	25.45 °C	884.11 µS/cm	0.00 mg/L	0.39 NTU	76.8 mV	13.17 ft	200.00 ml/min
9/6/2023 1:15 PM	35:00	4.36 pH	25.64 °C	907.17 µS/cm	0.00 mg/L	0.55 NTU	75.1 mV	13.17 ft	200.00 ml/min
9/6/2023 1:20 PM	40:00	4.36 pH	25.45 °C	918.27 µS/cm	0.00 mg/L	0.41 NTU	74.2 mV	13.17 ft	200.00 ml/min
9/6/2023 1:25 PM	45:00	4.35 pH	25.53 °C	925.00 µS/cm	0.01 mg/L	0.40 NTU	74.0 mV	13.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 10:20:13 AM

Project: Grumman Road Landfill

Operator Name: D. 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: 14.58 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 21.5 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 6.36 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sample time 1045.

FD-01 here.

Cloudy, 83 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 10:20 AM	00:00	5.04 pH	27.46 °C	102.88 µS/cm	1.46 mg/L	13.10 NTU	53.8 mV	14.58 ft	250.00 ml/min
8/29/2023 10:25 AM	05:00	4.94 pH	25.65 °C	134.09 µS/cm	0.72 mg/L	6.19 NTU	63.3 mV	15.06 ft	250.00 ml/min
8/29/2023 10:30 AM	10:00	4.91 pH	25.18 °C	143.00 µS/cm	0.41 mg/L	3.20 NTU	67.8 mV	15.11 ft	250.00 ml/min
8/29/2023 10:35 AM	15:00	4.90 pH	25.13 °C	146.97 µS/cm	0.28 mg/L	2.89 NTU	72.0 mV	15.11 ft	250.00 ml/min
8/29/2023 10:40 AM	20:00	4.89 pH	25.08 °C	143.01 µS/cm	0.21 mg/L	1.44 NTU	71.6 mV	15.11 ft	250.00 ml/min
8/29/2023 10:45 AM	25:00	4.89 pH	25.04 °C	142.95 µS/cm	0.15 mg/L	1.46 NTU	70.7 mV	15.11 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 4:35:12 PM

Project: Grumman Road Landfill

Operator Name: D. 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: 19.81 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 26.5 ft Estimated Total Volume Pumped: 5.37 liter Flow Cell Volume: 90 ml Final Flow Rate: 215 ml/min Final Draw Down: 3.84 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 1700.

Sunny, 92 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 4:35 PM	00:00	5.78 pH	32.41 °C	781.96 µS/cm	6.99 mg/L	2.27 NTU	74.0 mV	19.81 ft	215.00 ml/min
9/6/2023 4:40 PM	05:00	6.09 pH	25.53 °C	766.65 µS/cm	0.25 mg/L	1.46 NTU	73.3 mV	20.08 ft	215.00 ml/min
9/6/2023 4:45 PM	10:00	6.14 pH	25.07 °C	763.95 µS/cm	0.08 mg/L	2.03 NTU	73.1 mV	20.11 ft	215.00 ml/min
9/6/2023 4:50 PM	15:00	6.17 pH	24.66 °C	760.23 µS/cm	0.08 mg/L	1.81 NTU	72.9 mV	20.12 ft	215.00 ml/min
9/6/2023 4:55 PM	20:00	6.18 pH	24.48 °C	771.41 µS/cm	0.14 mg/L	1.23 NTU	72.5 mV	20.13 ft	215.00 ml/min
9/6/2023 5:00 PM	25:00	6.19 pH	24.38 °C	772.56 µS/cm	0.23 mg/L	1.08 NTU	71.9 mV	20.13 ft	215.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/7/2023 8:40:34 AM

Project: Grumman Road Landfill

Operator Name: D. 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: 19.41 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 23.8 ft Estimated Total Volume Pumped: 4.37 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 0905.

Sunny, 77 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/7/2023 8:40 AM	00:00	6.29 pH	26.82 °C	892.07 µS/cm	5.03 mg/L	7.86 NTU	117.6 mV	19.41 ft	175.00 ml/min
9/7/2023 8:45 AM	05:00	6.62 pH	23.46 °C	618.37 µS/cm	0.06 mg/L	6.45 NTU	85.7 mV	19.65 ft	175.00 ml/min
9/7/2023 8:50 AM	10:00	6.61 pH	23.74 °C	618.95 µS/cm	0.04 mg/L	4.27 NTU	74.8 mV	19.66 ft	175.00 ml/min
9/7/2023 8:55 AM	15:00	6.63 pH	23.73 °C	621.53 µS/cm	0.05 mg/L	3.71 NTU	70.6 mV	19.66 ft	175.00 ml/min
9/7/2023 9:00 AM	20:00	6.64 pH	23.72 °C	622.45 µS/cm	0.04 mg/L	2.45 NTU	67.8 mV	19.66 ft	175.00 ml/min
9/7/2023 9:05 AM	25:00	6.64 pH	23.72 °C	624.50 µS/cm	0.02 mg/L	2.17 NTU	65.2 mV	19.66 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 3:17:22 PM

Project: Grumman Road Landfill

Operator Name: J. Tracy

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: 20.7 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 25.7 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.76 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sample time 1542. Sunny 90s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 3:17 PM	00:00	4.88 pH	34.40 °C	1,261.9 µS/cm	0.57 mg/L	5.00 NTU	174.2 mV	20.70 ft	200.00 ml/min
9/6/2023 3:22 PM	05:00	4.90 pH	30.02 °C	1,527.1 µS/cm	0.29 mg/L	8.82 NTU	180.8 mV	20.92 ft	200.00 ml/min
9/6/2023 3:27 PM	10:00	5.01 pH	29.69 °C	1,660.7 µS/cm	0.33 mg/L	7.22 NTU	184.0 mV	20.93 ft	200.00 ml/min
9/6/2023 3:32 PM	15:00	5.08 pH	28.59 °C	1,756.3 µS/cm	0.32 mg/L	5.81 NTU	185.8 mV	20.93 ft	200.00 ml/min
9/6/2023 3:37 PM	20:00	5.14 pH	27.41 °C	1,775.3 µS/cm	0.31 mg/L	3.88 NTU	187.6 mV	20.93 ft	200.00 ml/min
9/6/2023 3:42 PM	25:00	5.16 pH	27.52 °C	1,778.6 µS/cm	0.30 mg/L	3.25 NTU	188.6 mV	20.93 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 8:40:39 AM

Project: Grumman Road Landfill

Operator Name: D. Johnson

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: 8.21 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 21.5 ft Estimated Total Volume Pumped: 4.37 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sample time 0905.

Rainy, 81 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 8:40 AM	00:00	4.56 pH	25.18 °C	2,119.2 µS/cm	0.69 mg/L	2.46 NTU	71.1 mV	8.21 ft	175.00 ml/min
8/29/2023 8:45 AM	05:00	4.62 pH	24.84 °C	2,114.7 µS/cm	0.61 mg/L	1.30 NTU	56.8 mV	8.22 ft	175.00 ml/min
8/29/2023 8:50 AM	10:00	4.63 pH	24.86 °C	2,133.3 µS/cm	0.54 mg/L	0.72 NTU	50.2 mV	8.24 ft	175.00 ml/min
8/29/2023 8:55 AM	15:00	4.65 pH	24.94 °C	2,107.6 µS/cm	0.55 mg/L	0.79 NTU	45.8 mV	8.24 ft	175.00 ml/min
8/29/2023 9:00 AM	20:00	4.65 pH	25.02 °C	2,107.5 µS/cm	0.53 mg/L	0.71 NTU	43.1 mV	8.24 ft	175.00 ml/min
8/29/2023 9:05 AM	25:00	4.66 pH	25.01 °C	2,110.0 µS/cm	0.54 mg/L	0.71 NTU	41.2 mV	8.24 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 1:32:03 PM

Project: Grumman Road Landfill

Operator Name: J. Tracy

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: 21.12 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sample time 1417. Sunny 90s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 1:32 PM	00:00	6.05 pH	33.58 °C	930.81 µS/cm	0.45 mg/L	5.00 NTU	160.1 mV	21.12 ft	200.00 ml/min
9/6/2023 1:37 PM	05:00	5.89 pH	29.37 °C	1,004.9 µS/cm	0.26 mg/L	1.13 NTU	161.3 mV	21.52 ft	200.00 ml/min
9/6/2023 1:42 PM	10:00	5.87 pH	28.31 °C	1,005.7 µS/cm	0.18 mg/L	0.87 NTU	162.4 mV	21.52 ft	200.00 ml/min
9/6/2023 1:47 PM	15:00	5.84 pH	26.24 °C	1,020.5 µS/cm	0.19 mg/L	0.78 NTU	163.5 mV	21.52 ft	200.00 ml/min
9/6/2023 1:52 PM	20:00	5.85 pH	27.64 °C	1,002.1 µS/cm	0.16 mg/L	0.91 NTU	164.7 mV	21.52 ft	200.00 ml/min
9/6/2023 1:57 PM	25:00	5.85 pH	27.59 °C	1,005.5 µS/cm	0.16 mg/L	1.15 NTU	165.3 mV	21.52 ft	200.00 ml/min
9/6/2023 2:02 PM	30:00	5.86 pH	26.60 °C	1,017.9 µS/cm	0.17 mg/L	2.16 NTU	165.9 mV	21.52 ft	200.00 ml/min
9/6/2023 2:07 PM	35:00	5.85 pH	28.24 °C	1,005.8 µS/cm	0.13 mg/L	1.49 NTU	166.7 mV	21.52 ft	200.00 ml/min
9/6/2023 2:12 PM	40:00	5.87 pH	26.55 °C	1,006.7 µS/cm	0.16 mg/L	1.35 NTU	167.5 mV	21.52 ft	200.00 ml/min
9/6/2023 2:17 PM	45:00	5.86 pH	28.49 °C	985.39 µS/cm	0.14 mg/L	1.26 NTU	167.8 mV	21.52 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 3:10:14 PM

Project: Grumman Road Landfill

Operator Name: Hunter Auld

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: 20.63 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 15.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sampled at 1620. Sunny 90s. FD-03 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 3:10 PM	00:00	6.13 pH	44.86 °C	42.00 µS/cm	6.03 mg/L	5.00 NTU	110.6 mV	20.63 ft	220.00 ml/min
9/6/2023 3:15 PM	05:00	4.98 pH	27.57 °C	66.56 µS/cm	5.53 mg/L	2.80 NTU	96.5 mV	20.70 ft	220.00 ml/min
9/6/2023 3:20 PM	10:00	4.97 pH	26.17 °C	70.16 µS/cm	5.41 mg/L	1.80 NTU	96.8 mV	20.70 ft	220.00 ml/min
9/6/2023 3:25 PM	15:00	4.96 pH	26.42 °C	88.59 µS/cm	4.90 mg/L	0.90 NTU	102.6 mV	20.80 ft	220.00 ml/min
9/6/2023 3:30 PM	20:00	5.14 pH	26.26 °C	147.54 µS/cm	3.98 mg/L	0.80 NTU	106.8 mV	20.90 ft	220.00 ml/min
9/6/2023 3:35 PM	25:00	5.35 pH	25.84 °C	233.99 µS/cm	3.14 mg/L	0.70 NTU	111.8 mV	20.90 ft	220.00 ml/min
9/6/2023 3:40 PM	30:00	5.56 pH	25.83 °C	317.26 µS/cm	2.75 mg/L	0.70 NTU	115.8 mV	20.90 ft	220.00 ml/min
9/6/2023 3:45 PM	35:00	5.61 pH	25.89 °C	422.78 µS/cm	2.27 mg/L	0.70 NTU	120.5 mV	20.90 ft	220.00 ml/min
9/6/2023 3:50 PM	40:00	5.71 pH	25.83 °C	563.72 µS/cm	2.06 mg/L	0.67 NTU	124.3 mV	20.90 ft	220.00 ml/min
9/6/2023 3:55 PM	45:00	5.75 pH	26.15 °C	683.72 µS/cm	1.90 mg/L	0.70 NTU	127.2 mV	20.90 ft	220.00 ml/min
9/6/2023 4:00 PM	50:00	5.77 pH	26.14 °C	765.27 µS/cm	1.81 mg/L	0.70 NTU	128.4 mV	20.90 ft	220.00 ml/min
9/6/2023 4:05 PM	55:00	5.78 pH	26.10 °C	834.71 µS/cm	1.77 mg/L	0.60 NTU	129.2 mV	20.90 ft	220.00 ml/min
9/6/2023 4:10 PM	01:00:00	5.78 pH	26.05 °C	870.70 µS/cm	1.70 mg/L	0.60 NTU	129.6 mV	20.90 ft	220.00 ml/min
9/6/2023 4:15 PM	01:05:00	5.78 pH	25.97 °C	909.61 µS/cm	1.65 mg/L	0.60 NTU	130.5 mV	20.90 ft	220.00 ml/min
9/6/2023 4:20 PM	01:10:00	5.78 pH	26.10 °C	908.31 µS/cm	1.55 mg/L	0.60 NTU	129.8 mV	20.90 ft	220.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/29/2023 12:26:05 PM

Project: Grumman Road Landfill

Operator Name: D. Johnson

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: 9.26 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 17.21 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 2.52 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

Sample time 1305.

Cloudy, 87 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/29/2023 12:26 PM	00:00	4.81 pH	28.46 °C	192.38 µS/cm	0.61 mg/L	19.00 NTU	151.9 mV	9.26 ft	175.00 ml/min
8/29/2023 12:31 PM	05:00	4.72 pH	26.76 °C	690.48 µS/cm	0.35 mg/L	13.70 NTU	167.1 mV	9.45 ft	175.00 ml/min
8/29/2023 12:36 PM	10:00	4.65 pH	26.38 °C	1,404.6 µS/cm	0.20 mg/L	7.22 NTU	140.8 mV	9.47 ft	175.00 ml/min
8/29/2023 12:41 PM	15:00	4.60 pH	26.38 °C	2,107.2 µS/cm	0.15 mg/L	4.56 NTU	133.2 mV	9.47 ft	175.00 ml/min
8/29/2023 12:46 PM	20:00	4.58 pH	26.61 °C	2,434.5 µS/cm	0.12 mg/L	3.06 NTU	124.7 mV	9.47 ft	175.00 ml/min
8/29/2023 12:51 PM	25:00	4.56 pH	26.73 °C	2,653.8 µS/cm	0.11 mg/L	3.31 NTU	117.5 mV	9.47 ft	175.00 ml/min
8/29/2023 12:56 PM	30:00	4.55 pH	26.70 °C	2,775.5 µS/cm	0.09 mg/L	2.76 NTU	111.2 mV	9.47 ft	175.00 ml/min
8/29/2023 1:01 PM	35:00	4.55 pH	26.70 °C	2,856.1 µS/cm	0.09 mg/L	1.69 NTU	105.9 mV	9.47 ft	175.00 ml/min
8/29/2023 1:06 PM	40:00	4.55 pH	26.67 °C	2,908.4 µS/cm	0.08 mg/L	1.62 NTU	101.0 mV	9.47 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 1:12:55 PM

Project: Grumman Road Landfill

Operator Name: Hunter Auld

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 58.3 ft Total Depth: 63.3 ft Initial Depth to Water: 22.93 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 16.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
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Test Notes:

Sampled at 1337. Sunny, 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 1:12 PM	00:00	6.24 pH	31.99 °C	203.74 µS/cm	7.00 mg/L	5.00 NTU	132.4 mV	22.93 ft	150.00 ml/min
9/6/2023 1:17 PM	05:00	5.74 pH	26.72 °C	159.77 µS/cm	0.57 mg/L	2.00 NTU	73.4 mV	23.90 ft	150.00 ml/min
9/6/2023 1:22 PM	10:00	5.84 pH	25.60 °C	160.83 µS/cm	0.24 mg/L	1.10 NTU	59.8 mV	24.00 ft	150.00 ml/min
9/6/2023 1:27 PM	15:00	5.88 pH	26.06 °C	160.82 µS/cm	0.18 mg/L	2.30 NTU	50.6 mV	24.10 ft	150.00 ml/min
9/6/2023 1:32 PM	20:00	5.91 pH	25.97 °C	161.18 µS/cm	0.16 mg/L	2.60 NTU	44.4 mV	24.20 ft	150.00 ml/min
9/6/2023 1:37 PM	25:00	5.92 pH	25.73 °C	162.04 µS/cm	0.14 mg/L	2.30 NTU	41.3 mV	24.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/6/2023 5:05:14 PM

Project: Grumman Road Landfill

Operator Name: J. Tracy

Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 61.3 ft Total Depth: 66.3 ft Initial Depth to Water: 22.8 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 7.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 36 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sample time 1733. Sunny 90s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/6/2023 5:05 PM	00:00	5.64 pH	32.75 °C	45.97 µS/cm	0.05 mg/L	3.10 NTU	130.4 mV	25.75 ft	250.00 ml/min
9/6/2023 5:08 PM	03:22	5.65 pH	31.28 °C	47.65 µS/cm	0.05 mg/L	2.57 NTU	128.8 mV	25.75 ft	250.00 ml/min
9/6/2023 5:13 PM	08:22	5.64 pH	29.21 °C	49.91 µS/cm	0.06 mg/L	2.19 NTU	126.6 mV	25.80 ft	250.00 ml/min
9/6/2023 5:18 PM	13:22	5.64 pH	28.77 °C	50.77 µS/cm	0.05 mg/L	2.17 NTU	124.9 mV	25.80 ft	250.00 ml/min
9/6/2023 5:23 PM	18:22	5.64 pH	28.83 °C	50.38 µS/cm	0.05 mg/L	1.33 NTU	123.6 mV	25.80 ft	250.00 ml/min
9/6/2023 5:28 PM	23:22	5.65 pH	28.32 °C	51.11 µS/cm	0.06 mg/L	1.58 NTU	121.6 mV	25.80 ft	250.00 ml/min
9/6/2023 5:33 PM	28:22	5.64 pH	28.78 °C	50.46 µS/cm	0.06 mg/L	1.46 NTU	120.4 mV	25.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 9/7/2023 8:43:10 AM

Project: Grumman Road Landfill

Operator Name: Hunter Auld

Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 65.2 ft Total Depth: 70.2 ft Initial Depth to Water: 20.56 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 68 ft Estimated Total Volume Pumped: 3.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 40.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
--	---	--

Test Notes:

Sample time 0913. Partly cloudy 70s. EB-06 here at 0935.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
9/7/2023 8:43 AM	00:00	7.86 pH	25.97 °C	17.68 µS/cm	8.15 mg/L	2.60 NTU	191.9 mV	20.56 ft	125.00 ml/min
9/7/2023 8:48 AM	05:00	6.08 pH	23.54 °C	42.03 µS/cm	0.79 mg/L	2.30 NTU	93.2 mV	22.10 ft	125.00 ml/min
9/7/2023 8:53 AM	10:00	6.01 pH	23.21 °C	41.53 µS/cm	0.43 mg/L	2.10 NTU	81.0 mV	22.90 ft	125.00 ml/min
9/7/2023 8:58 AM	15:00	6.04 pH	23.02 °C	41.15 µS/cm	0.33 mg/L	1.70 NTU	69.1 mV	23.30 ft	125.00 ml/min
9/7/2023 9:03 AM	20:00	6.09 pH	22.98 °C	40.90 µS/cm	0.29 mg/L	1.80 NTU	62.4 mV	23.70 ft	125.00 ml/min
9/7/2023 9:08 AM	25:00	6.08 pH	23.18 °C	40.92 µS/cm	0.31 mg/L	1.80 NTU	60.6 mV	23.80 ft	100.00 ml/min
9/7/2023 9:13 AM	30:00	6.09 pH	23.29 °C	41.17 µS/cm	0.34 mg/L	1.30 NTU	58.4 mV	23.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX A

*Daily Instrument Calibration Logs
August 2023 Monitoring Event*



Daily Instrument Calibration Log

SITE: Grimman Road
 TECHNICIAN: A Schmittner
 WATER LEVEL: S. Inlet
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 728623
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>366916</u>	EXP. DATE: <u>3/25</u>
ID: <u>pH 7</u>	LOT #: <u>266018</u>	EXP. DATE: <u>7/24</u>
ID: <u>pH 10</u>	LOT #: <u>266169</u>	EXP. DATE: <u>3/24</u>
ID: <u>Cond</u>	LOT #: <u>261642</u>	EXP. DATE: <u>9/23</u>
ID: <u>ORP</u>	LOT #: <u>21390144</u>	EXP. DATE: <u>11/23</u>
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 08/28 1530
 RDO: 100% sat. = 100.38
 PH: 4.00 = 4.00 7.00 = 7.00 10.00 = 9.86 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 = 1476.3 = 1484.1
 ORP (mV) 221.3 = 180.8 = 197.3

End of day 1830
Midday pH check

Calibration Date: 08/29 0845
 RDO: 100% sat. = 98.17
 PH: 4.00 = 4.16 7.00 = 7.18 10.00 = 10.03 7.0 = 7.01
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = 7.07 post recal check
 CONDUCTIVITY: 1413 = 1434.3 = 1433.9 = 1422.7
 ORP (mV) 227.9 = 181.1 = 193.7 = 197.9

Midday pH check 1230
1730

Calibration Date:
 RDO: 100% sat. = _____
 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) _____ = _____

Midday pH check

Calibration Date:
 RDO: 100% sat. = _____
 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) _____ = _____

Midday pH check

Calibration Date:
 RDO: 100% sat. = _____
 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) _____ = _____

Midday pH check



Daily Instrument Calibration Log

SITE: Grumman RD Plant: McIntosh
TECHNICIAN: A Schmittner

INSTRUMENT S/N: 21030D000600
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA Fresh DI EXP. DATE: NA Fresh DI water
10 NTU - LOT # A 2264 EXP. DATE: 1/24
20 NTU - LOT # A 2231 EXP. DATE: 12/23

Calibration Date: 8/28 1530 / 1830

Calibration Solution	Instrument Reading	
0.0	0.61	NTU
10.0	10.3 = 10.2	NTU
20.0	20.2	NTU

Calibration Date: 8/29 0845 / 1230 / 1730

Calibration Solution	Instrument Reading	
0.0	0.58	NTU
10.0	10.4 = 9.71 = 10.1	NTU
20.0	20.6	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



Daily Instrument Calibration Log

Page: 1 of 1

SITE: Grumman

TECHNICIAN: D. Johnson

WATER LEVEL: 5.1mst

WATER LEVEL S/N: 530984

INSTRUMENT S/N: 989619

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S: ID: pH 4 LOT #: 360916 EXP. DATE: 3/25

Manufact. Drift range pH must be less than .10 (6.90-7.10 range) Conductivity must be within 1.0% (1399 - 1427 range)	ID: pH 7	LOT #: <u>260169</u>	EXP. DATE: <u>3/24</u>
	ID: pH 10	LOT #: <u>260018</u>	EXP. DATE: <u>7/24</u>
	ID: Conductivity	LOT #: <u>3661066</u>	EXP. DATE: <u>7/24</u>
	ID: ORP	LOT #: <u>36150038</u>	EXP. DATE: <u>5/24</u>

Calibration Date: 8/28/23 Time: 1550

RDO: 100% sat. = 101.49

PH: 4.00 = 4.03 7.00 = 6.96 10.00 = 9.92

CONDUCTIVITY: 1413 = 1157

ORP (mV) 240 = 239.5

Drift Check Date: 8/28/23 Time: 1830

pH 7.00 = 7.00 SC 1413 = 1410 ORP 240 = 235.1

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____

Calibration Date: 8/29/23 Time: 0800

RDO: 100% sat. = 103.95

PH: 4.00 = 4.01 7.00 = 7.03 10.00 = 9.95

CONDUCTIVITY: 1413 = 1371.8

ORP (mV) 240 = 226.2

Drift Check Date: 8/29/23 Time: 1200

pH 7.00 = 7.02 SC 1413 = 1369 ORP 240 = 229.4

Drift Check Date: 8/20/29 Time: 1600

pH 7.00 = 7.01 SC 1413 = 1377 ORP 240 = 227.1

Calibration Date: _____ Time: _____

RDO: 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: 1413 = _____

ORP (mV) 240 = _____

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 1 of

SITE: Grumman

TECHNICIAN: D. JOHNSON

WATER LEVEL: SOLUIST

WATER LEVEL S/N: 530984

INSTRUMENT S/N: 714293

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTIONS: ID: pH 4 LOT #: 360916 EXP. DATE: 3/25

Manufact. Drift range pH must be less than .10 (6.90-7.10 range) Conductivity must be within 1.0% (1399 - 1427 range)	ID: pH 7	LOT #: <u>3601214</u>	EXP. DATE: <u>4/25</u>
	ID: pH 10	LOT #: <u>266018</u>	EXP. DATE: <u>7/24</u>
	ID: Conductivity	LOT #: <u>3661066</u>	EXP. DATE: <u>7/24</u>
	ID: ORP	LOT #: <u>360914</u>	EXP. DATE: <u>2/24</u>

Calibration Date: 9/6/23 Time: 1200

RDO: 100% sat. = 92.03%

PH: 4.00 = 4.10 7.00 = 7.33 10.00 = 10.2

CONDUCTIVITY: 1413 = ~~1760~~ 1765

ORP (mV) 240 = 212.1

Drift Check Date: 9/6/23 Time: 1745

pH 7.00 = 7.09 SC 1413 = 1420 ORP 240 = 220.2

Drift Check Date: Time:

pH 7.00 = SC 1413 = ORP 240 =

Calibration Date: 9/7/23 Time: 0816

RDO: 100% sat. = 104.7

PH: 4.00 = 3.94 7.00 = 6.96 10.00 = 9.89

CONDUCTIVITY: 1413 = 1494

ORP (mV) 240 = 226.2

Drift Check Date: Time:

pH 7.00 = SC 1413 = ORP 240 =

Drift Check Date: Time:

pH 7.00 = SC 1413 = ORP 240 =

Calibration Date: Time:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date: Time:

pH 7.00 = SC 1413 = ORP 240 =

Drift Check Date: Time:

pH 7.00 = SC 1413 = ORP 240 =



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: GRUMMAN
TECHNICIAN: D. JOHNSON

INSTRUMENT S/N: 15030C039370
INSTRUMENT TYPE: HACH 2100 Q
CAL. SOLUTION: 0 NTU - LOT # EXP. DATE: DI H₂O
10 NTU - LOT # A2264 EXP. DATE: 1/24
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 8/28/23 Time: 1600

Calibration Solution	Instrument Reading	
0.0	<u>0.20</u>	NTU
10.0	<u>10.4</u>	NTU
20.0	<u>20.8</u>	NTU

Time: 1830

Midday Spot Check	
10.0 = <u>10.2</u>	NTU

Midday Calibration Time: N/A

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 8/29/23 Time: 0810

Calibration Solution	Instrument Reading	
0.0	<u>0.24</u>	NTU
10.0	<u>10.7</u>	NTU
20.0	<u>20.6</u>	NTU

Time: 1200

Midday Spot Check	
10.0 = <u>10.3</u>	NTU

^{EOD} Midday Calibration Time: 1600

Cal Solution	Reading	
0.0	<u>0.23</u>	NTU
10.0	<u>10.3</u>	NTU
20.0	<u>20.2</u>	NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

Midday Spot Check	
10.0 =	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Grumman
TECHNICIAN: Do. Schriener

INSTRUMENT S/N: 160400049767
INSTRUMENT TYPE: Hach 2100 Q
CAL. SOLUTION: 0 NTU - LOT # — EXP. DATE: — NEW D.F.
10 NTU - LOT # R2122 EXP. DATE: 9/23
20 NTU - LOT # A2121 EXP. DATE: 9/23

Calibration Date: 9/6/23 Time: 1150

Calibration Solution	Instrument Reading	
0.0	<u>0.20</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.5</u>	NTU

Spot Check/s

Time: 1500

10.0 = 10.0 NTU

Time: 1747 NTU

10.0 = 10.0

Recal if spot check is out of range

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 9/7/23 Time: 0814

Calibration Solution	Instrument Reading	
0.0	<u>0.33</u>	NTU
10.0	<u>10.6</u>	NTU
20.0	<u>20.3</u>	NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: _____ Time: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: _____ Time: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: _____ Time: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: _____ Time: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: _____ Time: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time: _____

10.0 = _____

Time: _____ NTU

10.0 = _____

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 6 of 1

SITE: Grummen Road LF

TECHNICIAN: H. Auld

WATER LEVEL: Solinst

WATER LEVEL S/N: 532172

INSTRUMENT S/N: 965678

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S: ID: pH 4 LOT #: 366916 EXP. DATE: 03/25

Manufact. Drift range <i>pH must be less than .10</i> (6.90-7.10 range) <i>Conductivity must be within 1.0%</i> (1399 - 1427 range)	ID: pH 7	LOT #: <u>266042</u>	EXP. DATE: <u>07/24</u>
	ID: pH 10	LOT #: <u>266018</u>	EXP. DATE: <u>07/24</u>
	ID: Conductivity	LOT #: <u>261612</u>	EXP. DATE: <u>10/23</u>
	ID: ORP	LOT #: <u>262022</u>	EXP. DATE: <u>10/23</u>

Calibration Date: 9-6-23 Time: 1030 1100

RDO: 100% sat. = 101

PH: 4.00 = 4.01 7.00 = 6.99 10.00 = 9.95

CONDUCTIVITY: 1413 = 1423

ORP (mV) 240 = 233

Drift Check Date: 9-6-23 Time: 1500

pH 7.00 = 6.96 SC 1413 = 1415 ORP 240 = 237

Drift Check Date: NA Time: 081 NA

pH 7.00 = NA SC 1413 = NA ORP 240 = NA

Calibration Date: 9-7-23 Time: 0815

RDO: 100% sat. = 100.17

PH: 4.00 = 3.96 7.00 = 6.90 10.00 = 9.95

CONDUCTIVITY: 1413 = 1846

ORP (mV) 240 = 237

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____ NA well completed

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____ NA

Calibration Date: _____ Time: _____

RDO: 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: 1413 = _____

ORP (mV) 240 = _____

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____

Drift Check Date: _____ Time: _____

pH 7.00 = _____ SC 1413 = _____ ORP 240 = _____



ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Grumman Rd. LF
TECHNICIAN: H. Avila

INSTRUMENT S/N: 220080D00083
INSTRUMENT TYPE: HACH 2100 Q
CAL. SOLUTION: 0 NTU - LOT # - EXP. DATE: -
10 NTU - LOT # A3139 EXP. DATE: 08/24
20 NTU - LOT # A3144 EXP. DATE: 09/24

Calibration Date: 9-6-23 Time: 1130

Calibration Solution	Instrument Reading	
0.0	<u>0.3</u>	NTU
10.0	<u>9.6</u>	NTU
20.0	<u>20.3</u>	NTU

Spot Check/s

Time: 1430

10.0 = 9.9 NTU

Time: NTU

10.0 =

Recal if spot check is out of range

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 9-7-23 Time: 0815

Calibration Solution	Instrument Reading	
0.0	<u>0.3</u>	NTU
10.0	<u>9.9</u>	NTU
20.0	<u>20.1</u>	NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: Time:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Grumman
 TECHNICIAN: J. Tracy
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 555759

INSTRUMENT S/N: 714344
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 7 LOT #: 26C169 EXP. DATE: 03/24
 ID: pH 10 LOT #: 26H903 EXP. DATE: 08/24
 ID: pH 4 LOT #: 36C916 EXP. DATE: 03/25
 ID: Conductivity LOT #: 26F806 EXP. DATE: 06/24
 ID: ORP LOT #: 26L022 EXP. DATE: 09/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 9/16/23 see digital cal logs from Troll

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) =

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: Grumman
TECHNICIAN: J. Tracy

INSTRUMENT S/N: 17120C063767
INSTRUMENT TYPE: Hach 2100 Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI water
10 NTU - LOT # A3139 EXP. DATE: Aug 24
20 NTU - LOT # A3138 EXP. DATE: Aug 24

Calibration Date: 9/6/2023 1300

Calibration Solution	Instrument Reading	
0.0	<u>0.31</u>	NTU
10.0	<u>9.73</u>	NTU
20.0	<u>20.1</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

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 2023 Monitoring Event*

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/28/2023

Permit Number: 025-061D(LI)

Field Conditions: Sunny, Hot

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
GWC-1	YES	YES	NO	YES
GWC-2	YES	YES	NO	YES
GWB-4R	YES	YES	NO	YES
GWB-5R	YES	YES	NO	YES
GWB-6R	YES	YES	NO	YES
GWA-7	YES	YES	NO	YES
GWA-8	YES	YES	NO	YES
GWC-9	YES	YES	NO	YES
GWC-10	YES	YES	NO	YES
GWC-11	YES	YES	NO	YES
GWC-12	YES	YES	NO	YES
GWC-13	YES	YES	NO	YES
GWC-14	YES	YES	NO	YES
GWC-15	YES	YES	NO	YES
GWC-16	YES	YES	NO	YES
GWC-17	YES	YES	NO	YES
GWC-20	YES	YES	NO	YES
GWC-21	YES	YES	NO	YES
GWC-22	YES	YES	NO	YES
MW-23D	YES	YES	NO	YES
MW-24D	YES	YES	NO	YES
MW-25D	YES	YES	NO	YES
MW-26D	YES	YES	NO	YES
MW-27D	YES	YES	NO	YES

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/28/2023

Permit Number: 025-061D(LI)

Field Conditions: Sunny, Hot

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
GWC-1	YES	YES	YES	YES	YES
GWC-2	YES	YES	YES	YES	YES
GWB-4R	YES	YES	YES	YES	YES
GWB-5R	YES	YES	YES	YES	YES
GWB-6R	YES	YES	YES	YES	YES
GWA-7	YES	YES	YES	YES	YES
GWA-8	YES	YES	YES	YES	YES
GWC-9	YES	YES	YES	YES	YES
GWC-10	YES	YES	YES	YES	YES
GWC-11	YES	YES	YES	YES	YES
GWC-12	YES	YES	YES	YES	YES
GWC-13	YES	YES	YES	YES	YES
GWC-14	YES	YES	YES	YES	YES
GWC-15	YES	YES	YES	YES	YES
GWC-16	YES	YES	YES	YES	YES
GWC-17	YES	YES	YES	YES	YES
GWC-20	YES	YES	YES	YES	YES
GWC-21	YES	YES	YES	YES	YES
GWC-22	YES	YES	YES	YES	YES
MW-23D	YES	YES	YES	YES	YES
MW-24D	YES	YES	YES	YES	YES
MW-25D	YES	YES	YES	YES	YES
MW-26D	YES	YES	YES	YES	YES
MW-27D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/28/2023

Permit Number: 025-061D(LI)

Field Conditions: Sunny, Hot

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
GWC-1	YES	YES	YES	YES	YES	YES
GWC-2	YES	YES	YES	YES	YES	YES
GWB-4R	YES	YES	YES	YES	YES	YES
GWB-5R	YES	YES	YES	YES	YES	YES
GWB-6R	YES	YES	YES	YES	YES	YES
GWA-7	YES	YES	YES	YES	YES	YES
GWA-8	YES	YES	YES	YES	YES	YES
GWC-9	YES	YES	YES	YES	YES	YES
GWC-10	YES	YES	YES	YES	YES	YES
GWC-11	YES	YES	YES	YES	YES	YES
GWC-12	YES	YES	YES	YES	YES	YES
GWC-13	YES	YES	YES	YES	YES	YES
GWC-14	YES	YES	YES	YES	YES	YES
GWC-15	YES	YES	YES	YES	YES	YES
GWC-16	YES	YES	YES	YES	YES	YES
GWC-17	YES	YES	YES	YES	YES	YES
GWC-20	YES	YES	YES	YES	YES	YES
GWC-21	YES	YES	YES	YES	YES	YES
GWC-22	YES	YES	YES	YES	YES	YES
MW-23D	YES	YES	YES	YES	YES	YES
MW-24D	YES	YES	YES	YES	YES	YES
MW-25D	YES	YES	YES	YES	YES	YES
MW-26D	YES	YES	YES	YES	YES	YES
MW-27D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Kraft Grummand Road LandfillDate: 8/28/2023Permit Number: 025-061D(LI)Field Conditions: Sunny, Hot

	Corrective actions as needed, by date:
--	---

Well ID:	
GWC-1	
GWC-2	
GWB-4R	
GWB-5R	
GWB-6R	
GWA-7	
GWA-8	
GWC-9	
GWC-10	
GWC-11	
GWC-12	
GWC-13	
GWC-14	
GWC-15	
GWC-16	
GWC-17	
GWC-20	
GWC-21	
GWC-22	
MW-23D	
MW-24D	
MW-25D	
MW-26D	
MW-27D	

APPENDIX B

Statistical Analysis Reports

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

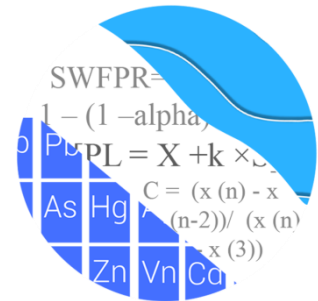
APPENDIX B

*Statistical Analysis Report
August 2023 Monitoring Event*

GROUNDWATER STATS CONSULTING

February 28, 2024

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 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 August/September 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 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 for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after 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 2023

All Appendix I parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No additional 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 screened pooled upgradient well data through September 2023 for antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc (Figure D). The August/September 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-11 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-11

Decreasing Trends:

- Arsenic: GWA-7 and 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 – September 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed 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 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 September 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-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
- Chloride: GWC-17 and GWC-22

- Fluoride: GWC-17
- pH: GWC-15 (upper limit)
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21 and GWC-22

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:

- Calcium: GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-11, GWC-16, GWC-20, and GWC-21
- Sulfate: GWB-5R, GWB-6R, GWC-11, GWC-16, and GWC-21

Decreasing:

- Calcium: GWA-7 (upgradient), GWC-12, and GWC-22
- Chloride: GWA-7 (upgradient)
- pH: GWA-7 (upgradient)
- Sulfate: GWA-7, GWA-8 (both upgradient), GWC-12, and GWC-22

Statistical Analysis of Georgia EPD Appendix II and CCR Appendix IV – September 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 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.

During this analysis, a significant increase in concentrations among the most recent 8 observations when compared to historic records was identified for arsenic at GWC-15 and molybdenum at GWB-4R; therefore, confidence intervals using the most recent 8 observations for these well/constituent pairs were constructed.

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: GWB-4R, GWC-16, and GWC-20

Trend Test Evaluation – Appendix IV

All data since 2016 at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure K). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. 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 wells, 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 and GWC-16
- Molybdenum: GWB-4R

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, GWC-20, and GWC-21
- Barium: GWC-11 and GWC-21

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, GWC-21, and GWC-22
- Chloride: GWC-17 and GWC-22
- Fluoride: GWC-17
- pH: GWC-15 (upper limit)
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-21 and GWC-22

Confidence Intervals (Assessment Monitoring Parameters)

Georgia EPD Appendix II and CCR Appendix IV:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWB-4R, 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,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Date Ranges

Date: 11/17/2023 4:27 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Arsenic (mg/L)

GWC-15 overall:8/18/2020-9/7/2023

Molybdenum (mg/L)

GWB-4R overall:8/19/2020-9/7/2023

100% Non-Detects: Appendix I

Analysis Run 11/17/2023 3:48 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Selenium (mg/L)
GWC-13

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/17/2023 4:03 PM View: Appendix 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)

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

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

Appendix I - Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	9/7/2023	0.287	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/6/2023	0.12	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	9/6/2023	0.258	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	9/6/2023	0.0323	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWC-11	0.1793	n/a	9/6/2023	0.192	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1793	n/a	9/6/2023	0.232	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2

Appendix I - Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	9/7/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/29/2023	0.0057	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/29/2023	0.00239J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/29/2023	0.00724	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	8/29/2023	0.00668	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.0287	n/a	9/6/2023	0.00254J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	9/6/2023	0.00244J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	9/7/2023	0.287	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/6/2023	0.12	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	9/6/2023	0.258	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	9/6/2023	0.0323	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/29/2023	0.00216J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.1793	n/a	8/29/2023	0.16	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWB-5R	0.1793	n/a	8/29/2023	0.0643	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWB-6R	0.1793	n/a	8/29/2023	0.0196	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-1	0.1793	n/a	8/29/2023	0.0637	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-11	0.1793	n/a	9/6/2023	0.192	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-12	0.1793	n/a	9/6/2023	0.0273	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-13	0.1793	n/a	8/29/2023	0.0712	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-14	0.1793	n/a	9/6/2023	0.0833	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-15	0.1793	n/a	9/7/2023	0.0573	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-16	0.1793	n/a	9/6/2023	0.143	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-17	0.1793	n/a	8/29/2023	0.0295	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-2	0.1793	n/a	8/29/2023	0.0452	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-20	0.1793	n/a	9/6/2023	0.178	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1793	n/a	9/6/2023	0.232	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-22	0.1793	n/a	8/29/2023	0.127	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-9	0.1793	n/a	8/29/2023	0.138	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/29/2023	0.00389J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/29/2023	0.00349J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	8/29/2023	0.00337J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	9/7/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	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 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	9/7/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/29/2023	0.000511J	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/29/2023	0.00261J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/29/2023	0.00204J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	8/29/2023	0.00182J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	9/6/2023	0.0036J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	9/6/2023	0.00516	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	9/7/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	9/6/2023	0.00161J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	9/6/2023	0.00554	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	8/29/2023	0.0201	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	8/29/2023	0.00917J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	8/29/2023	0.0226	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	8/29/2023	0.0146J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	9/6/2023	0.00685J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	9/6/2023	0.0101J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	8/29/2023	0.0188J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	9/6/2023	0.00671J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	9/7/2023	0.00462J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	9/6/2023	0.00631J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	8/29/2023	0.0108J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	8/29/2023	0.00777J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	9/6/2023	0.00768J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	9/6/2023	0.0101J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	8/29/2023	0.0353	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	8/29/2023	0.0103J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/29/2023	0.0406	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	9/6/2023	0.00479J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/29/2023	0.0194J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	9/7/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/29/2023	0.00535J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/29/2023	0.0054J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2

Appendix I Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0006418	-4.594	-2.58	Yes	55	54.55	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.607	-2.58	Yes	76	92.11	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.006559	8.595	2.58	Yes	56	44.64	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002871	-9.319	-2.58	Yes	75	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-11	0.003084	2.687	2.58	Yes	55	0	n/a	n/a	0.01	NP

Appendix I Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:13 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>
Arsenic (mg/L)	GWA-7 (bg)	-0.0006418	-4.594	-2.58	Yes	55	54.55	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.607	-2.58	Yes	76	92.11	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.006559	8.595	2.58	Yes	56	44.64	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.0006685	-1.629	-2.58	No	75	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.007858	123	184	No	35	2.857	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-21	0	28	167	No	33	45.45	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0.00006321	0.2765	2.58	No	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002871	-9.319	-2.58	Yes	75	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-11	0.003084	2.687	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.0004912	10	176	No	34	0	n/a	n/a	0.01	NP

Appendix III - Interwell Prediction Limits - Significant Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	8/29/2023	133	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/29/2023	46.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/29/2023	120	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/29/2023	53.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	9/6/2023	160	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	9/6/2023	77.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	9/6/2023	145	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	9/7/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/6/2023	311	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/29/2023	86.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	9/6/2023	151	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	9/6/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/29/2023	147	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-17	260	n/a	8/29/2023	476	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/29/2023	521	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/29/2023	0.572	Yes	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	9/7/2023	6.64	Yes	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/29/2023	551	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/29/2023	299	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/29/2023	763	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	9/6/2023	827	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	9/6/2023	437	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	9/6/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/6/2023	1250	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/29/2023	444	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	9/6/2023	460	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	9/6/2023	470	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	8/29/2023	1010	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/29/2023	4.35	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/29/2023	3.69	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/29/2023	5.92	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	8/29/2023	0.653	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	9/6/2023	4.44	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	9/6/2023	9.02	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/29/2023	0.296	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	9/6/2023	0.0433	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	9/7/2023	0.747	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	9/6/2023	20.4	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	8/29/2023	1.77	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	8/29/2023	0.0163	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	9/6/2023	11.3	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	9/6/2023	5.6	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/29/2023	9.28	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	8/29/2023	0.016	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/29/2023	133	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/29/2023	46.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/29/2023	120	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/29/2023	53.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	9/6/2023	160	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	9/6/2023	77.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	8/29/2023	3.64	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	9/6/2023	145	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	9/7/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/6/2023	311	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/29/2023	86.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	8/29/2023	0.165J	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	9/6/2023	151	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	9/6/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/29/2023	147	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	8/29/2023	4.38	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/29/2023	66	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/29/2023	61.8	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/29/2023	53.2	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	8/29/2023	7.48	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	9/6/2023	98	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	9/6/2023	74.1	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/29/2023	7.34	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	9/6/2023	22.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	9/7/2023	4.46	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	9/6/2023	45.9	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/29/2023	476	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	8/29/2023	4.97	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	9/6/2023	12.2	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	9/6/2023	24.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/29/2023	521	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	8/29/2023	21.1	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	8/29/2023	0.0523J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	8/29/2023	0.0596J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	9/6/2023	0.238	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	0.49	n/a	9/7/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/29/2023	0.572	Yes	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	8/29/2023	0.0758J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	8/29/2023	0.115	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	8/29/2023	5.82	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	8/29/2023	5.17	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	8/29/2023	5.33	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	8/29/2023	5.68	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-11	6.43	4.23	9/6/2023	5.05	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	9/6/2023	4.35	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.23	8/29/2023	4.89	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	9/6/2023	6.19	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	9/7/2023	6.64	Yes	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.23	9/6/2023	5.16	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	8/29/2023	4.66	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	8/29/2023	4.68	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	9/6/2023	5.86	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	9/6/2023	5.78	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	8/29/2023	4.55	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	8/29/2023	4.56	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/29/2023	551	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/29/2023	299	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/29/2023	763	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	8/29/2023	64.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	9/6/2023	827	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	9/6/2023	437	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	8/29/2023	47.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	9/6/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	9/7/2023	46.8	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/6/2023	1250	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/29/2023	444	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	8/29/2023	10.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	9/6/2023	460	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	9/6/2023	470	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	8/29/2023	1010	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	8/29/2023	15.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	3660	n/a	8/29/2023	1290	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	3660	n/a	8/29/2023	644	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	3660	n/a	8/29/2023	1320	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	3660	n/a	8/29/2023	272	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	3660	n/a	9/6/2023	1330	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	3660	n/a	9/6/2023	686	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	3660	n/a	8/29/2023	62	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	3660	n/a	9/6/2023	594	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	3660	n/a	9/7/2023	471	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	3660	n/a	9/6/2023	1980	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	3660	n/a	8/29/2023	1270	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	3660	n/a	8/29/2023	9J	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	3660	n/a	9/6/2023	924	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	3660	n/a	9/6/2023	826	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	3660	n/a	8/29/2023	2300	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	3660	n/a	8/29/2023	70	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.5451	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	14.5	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	8.091	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	10.19	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	4.878	89	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	19.26	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-7.165	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	21.18	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	18.13	88	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-7.784	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-19.94	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0407	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.045	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-11.02	-109	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	41.63	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	105	117	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	108.7	119	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-99.1	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	118.3	123	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	61.85	82	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-44.81	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:49 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)	-0.5451	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-1.227	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	14.5	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	8.091	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	10.19	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	4.878	89	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	19.26	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-7.165	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.578	21	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.813	29	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-2.733	-21	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	21.18	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	18.13	88	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-7.784	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-19.94	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.4345	-48	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-53.53	-46	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-22	-17.18	-53	-74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.007396	-36	-87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01125	-77	-87	No	21	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1066	-79	-87	No	21	4.762	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0407	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.03184	72	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04078	56	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.045	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-11.02	-109	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	14.31	49	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	41.63	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	105	117	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	108.7	119	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-99.1	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-35.63	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	118.3	123	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	5.415	6	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	71.03	55	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	61.85	82	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-44.81	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:53 PM

Constituent	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	131	95.42	n/a	0.001207	NP Inter(NDs)
Arsenic (mg/L)	0.0287	n/a	n/a	n/a	n/a	131	76.34	n/a	0.001207	NP Inter(NDs)
Barium (mg/L)	0.1681	n/a	n/a	n/a	n/a	129	0	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0017	n/a	n/a	n/a	n/a	51	52.94	n/a	0.0731	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	n/a	49	95.92	n/a	0.08099	NP Inter(NDs)
Chromium (mg/L)	0.068	n/a	n/a	n/a	n/a	130	61.54	n/a	0.001271	NP Inter(NDs)
Cobalt (mg/L)	0.0102	n/a	n/a	n/a	n/a	49	46.94	n/a	0.08099	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.96	n/a	n/a	n/a	n/a	35	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.49	n/a	n/a	n/a	n/a	42	23.81	n/a	0.116	NP Inter(normality)
Lead (mg/L)	0.013	n/a	n/a	n/a	n/a	127	73.23	n/a	0.001482	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	38	76.32	n/a	0.1424	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	32	84.38	n/a	0.1937	NP Inter(NDs)
Molybdenum (mg/L)	0.0098	n/a	n/a	n/a	n/a	38	84.21	n/a	0.1424	NP Inter(NDs)
Selenium (mg/L)	0.0438	n/a	n/a	n/a	n/a	131	82.44	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	n/a	70	94.29	n/a	0.02758	NP Inter(NDs)
Vanadium (mg/L)	0.425	n/a	n/a	n/a	n/a	125	60.8	n/a	0.001642	NP Inter(NDs)
Zinc (mg/L)	0.16	n/a	n/a	n/a	n/a	123	29.27	n/a	0.00182	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	0.010	0.010
Combined Radium, Total (pCi/L)	5		11.96	11.96
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	0.03	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 Summary Table - Significant Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Arsenic (mg/L)	GWC-15	0.2787	0.1895	0.029	Yes	8	0.2341	0.04206	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08757	0.06589	0.029	Yes	24	0.07673	0.02124	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3582	0.2794	0.029	Yes	23	0.3188	0.07531	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-4R	0.1741	0.1131	0.1	Yes	8	0.1436	0.02875	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1991	0.1262	0.1	Yes	19	0.1626	0.06219	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3876	0.1578	0.1	Yes	19	0.2951	0.2162	0	None	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	23	0.002702	0.000803	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	23	0.002777	0.0007389	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	23	0.00262	0.0008713	82.61	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00064	0.006	No	23	0.001959	0.001218	56.52	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	23	0.002896	0.0005004	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	23	0.002948	0.0002502	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	23	0.002811	0.0006241	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	23	0.002865	0.0004488	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	23	0.00285	0.0005315	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	23	0.002884	0.0005567	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	23	0.002571	0.0009029	78.26	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	23	0.002823	0.0006168	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003249	0.002038	0.029	No	23	0.002731	0.001244	8.696	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.00215	0.001182	0.029	No	23	0.002547	0.001648	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003803	0.001652	0.029	No	23	0.008236	0.00932	21.74	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.005291	0.002538	0.029	No	22	0.004831	0.005258	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.00254	0.029	No	23	0.004893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	23	0.0043	0.001568	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	23	0.004508	0.001341	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002263	0.001697	0.029	No	24	0.002607	0.001207	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.2787	0.1895	0.029	Yes	8	0.2341	0.04206	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08757	0.06589	0.029	Yes	24	0.07673	0.02124	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	23	0.00304	0.001933	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	23	0.004432	0.001503	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3582	0.2794	0.029	Yes	23	0.3188	0.07531	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0065	0.0031	0.029	No	23	0.008535	0.009492	30.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0012	0.029	No	23	0.00338	0.001952	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	23	0.004819	0.0008674	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	7	0.004417	0.001542	85.71	None	No	0.008	NP (NDs)
Barium (mg/L)	GWB-4R	0.0994	0.076	2	No	23	0.09565	0.02685	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1371	0.08601	2	No	23	0.1153	0.05486	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.0196	2	No	23	0.06341	0.0419	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05717	0.05122	2	No	23	0.0542	0.005693	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1283	0.07954	2	No	23	0.1039	0.04659	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.025	0.0172	2	No	23	0.02041	0.004776	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.03126	0.02197	2	No	23	0.02787	0.01162	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-14	0.073	0.026	2	No	24	0.04664	0.02748	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05099	0.04136	2	No	23	0.04618	0.009206	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1636	0.08359	2	No	22	0.1236	0.07456	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.09044	0.04389	2	No	23	0.07465	0.05436	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.049	2	No	22	0.05228	0.007227	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.2008	0.1062	2	No	23	0.1756	0.114	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1258	0.06277	2	No	23	0.1037	0.0687	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.09165	0.05979	2	No	23	0.07572	0.03045	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2383	0.1731	2	No	23	0.2057	0.06231	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.08044	0.06523	2	No	6	0.07345	0.006842	0	None	x^5	0.01	Param.
Barium (mg/L)	MW-24D	0.04523	0.02427	2	No	6	0.03475	0.007626	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03009	0.02121	2	No	6	0.02565	0.003228	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	19	0.0003895	0.0001792	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.000099	0.004	No	19	0.0002706	0.0001753	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	19	0.0004524	0.0001425	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	19	0.0004762	0.0001039	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007306	0.0005212	0.004	No	19	0.0006436	0.0002056	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.00058	0.004	No	19	0.0004767	0.0001014	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	19	0.0004343	0.000156	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	19	0.0002808	0.0002139	47.37	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.002484	0.001649	0.004	No	19	0.002152	0.0008179	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.00009	0.004	No	20	0.0003839	0.0001881	70	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	19	0.0003598	0.0001914	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	19	0.0002376	0.00004803	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	6	0.0004307	0.0001698	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.000304	0.005	No	19	0.0007834	0.0003748	73.68	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	19	0.0009037	0.0002885	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005895	0.0003052	0.005	No	19	0.0004474	0.0002428	5.263	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.0002	0.005	No	19	0.0006942	0.0004121	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.000823	0.005	No	19	0.0008596	0.0003097	78.95	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	19	0.0005816	0.0004186	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	6	0.0008783	0.000298	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	6	0.000865	0.0003307	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	GWB-4R	0.007686	0.003586	0.1	No	23	0.006118	0.004208	4.348	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.003853	0.001167	0.1	No	23	0.008154	0.01453	30.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006093	0.002432	0.1	No	23	0.005035	0.004794	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0028	0.0018	0.1	No	23	0.002603	0.001355	13.04	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00092	0.1	No	23	0.005264	0.004623	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.001	0.1	No	23	0.003897	0.004148	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	23	0.006447	0.004538	60.87	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0009	0.1	No	24	0.005444	0.004658	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	23	0.004835	0.004254	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	24	0.005528	0.004573	45.83	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	23	0.004761	0.004394	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	23	0.006788	0.004498	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	23	0.004831	0.004343	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0007	0.1	No	23	0.005967	0.004704	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	23	0.006321	0.004692	60.87	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	23	0.005073	0.004429	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	6	0.008448	0.003801	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	6	0.0086	0.003429	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	19	0.002356	0.003088	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.0057	0.00139	0.01	No	19	0.005084	0.005212	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0228	0.0049	0.01	No	19	0.01482	0.02222	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.000646	0.01	No	19	0.003405	0.002153	63.16	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.00119	0.0007776	0.01	No	19	0.0009837	0.0003521	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.004914	0.002767	0.01	No	19	0.004132	0.002025	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.01	No	20	0.000869	0.0002827	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.01	No	19	0.0009083	0.0001689	63.16	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00093	0.01	No	19	0.001264	0.0004145	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.44	11.96	No	19	3.611	1.292	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.693	2.3	11.96	No	19	3.069	1.331	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	5.149	3.048	11.96	No	19	4.098	1.794	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.333	1.533	11.96	No	19	1.933	0.6833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.657	3.734	11.96	No	19	5.195	2.496	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.758	1.769	11.96	No	19	2.264	0.8447	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.698	0.9487	11.96	No	19	1.323	0.6395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.417	0.7316	11.96	No	19	1.074	0.5848	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.036	1.169	11.96	No	19	1.603	0.7401	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.82	1.866	11.96	No	19	2.386	0.8613	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.683	2.703	11.96	No	19	3.226	0.8803	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.11	0.725	11.96	No	19	0.9898	0.5164	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.716	2.449	11.96	No	19	3.583	1.936	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.729	1.47	11.96	No	19	2.1	1.075	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.689	3.569	11.96	No	19	5.129	2.664	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.613	2.06	11.96	No	19	2.932	1.535	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	3.139	0.814	11.96	No	6	1.977	0.8464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.307	0.1671	11.96	No	6	1.737	1.143	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	2.613	-0.2281	11.96	No	6	1.193	1.034	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	21	0.1607	0.2475	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	21	0.08626	0.03852	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	21	0.1134	0.05785	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.0596	4	No	21	0.1024	0.03762	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.6134	0.2489	4	No	21	0.4742	0.3697	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	21	0.1136	0.1017	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.21	0.1	4	No	21	0.161	0.1194	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	21	0.1267	0.09068	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.55	0.11	4	No	21	0.3966	0.2167	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.098	0.5347	4	No	21	0.8694	0.5313	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.083	4	No	21	0.1211	0.1163	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.2	0.14	4	No	21	0.1735	0.05978	80.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.2	0.071	4	No	21	0.1939	0.02815	95.24	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	21	0.09266	0.02275	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2084	0.08905	4	No	21	0.1917	0.2132	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.13	0.0586	4	No	7	0.09539	0.02199	57.14	None	No	0.008	NP (NDs)
Fluoride (mg/L)	MW-24D	0.147	0.1	4	No	7	0.1067	0.01776	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1889	0.07965	4	No	7	0.1343	0.046	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Lead (mg/L)	GWB-4R	0.003164	0.0007484	0.015	No	22	0.003135	0.00265	31.82	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	23	0.001288	0.0008792	47.83	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	23	0.001195	0.0008842	52.17	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	23	0.001668	0.00074	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.002	0.00021	0.015	No	23	0.0007917	0.0008204	30.43	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	23	0.001083	0.001063	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00017	0.015	No	23	0.001112	0.0008553	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	24	0.0017	0.0006903	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	23	0.001197	0.0009386	56.52	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	24	0.001069	0.0009515	50	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00015	0.015	No	23	0.001379	0.0008832	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	23	0.001517	0.0008331	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	23	0.001592	0.0007921	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00016	0.015	No	23	0.001348	0.0009132	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007682	0.0003109	0.015	No	23	0.000947	0.0008105	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.00012	0.015	No	23	0.001288	0.0009167	60.87	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	6	0.001676	0.0007932	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	6	0.001682	0.0007781	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	6	0.001683	0.0007777	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWB-4R	0.016	0.0042	0.04	No	19	0.01081	0.005484	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	19	0.02035	0.013	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	19	0.01473	0.01489	47.37	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	19	0.02693	0.009201	89.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006594	0.005124	0.04	No	19	0.005859	0.001256	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0023	0.0018	0.04	No	18	0.006589	0.01078	16.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	16	0.0001843	0.00004387	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	17	0.0001875	0.00003544	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	16	0.0001839	0.00004511	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	16	0.0001837	0.00004573	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	16	0.0001894	0.00002955	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	16	0.000185	0.00004243	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1741	0.1131	0.1	Yes	8	0.1436	0.02875	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	19	0.0009942	0.00008675	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.00085	0.1	No	19	0.006245	0.004543	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1268	0.05336	0.1	No	19	0.09699	0.06661	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.000804	0.1	No	19	0.007605	0.004124	73.68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	19	0.0009582	0.0001824	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	19	0.001242	0.001055	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01541	0.005281	0.1	No	19	0.01152	0.009327	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1066	0.08546	0.1	No	19	0.09602	0.01803	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1991	0.1262	0.1	Yes	19	0.1626	0.06219	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.003	0.1	No	19	0.006189	0.00346	42.11	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3876	0.1578	0.1	Yes	19	0.2951	0.2162	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05521	0.02328	0.1	No	19	0.03925	0.02727	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	19	0.0009649	0.0001528	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.003251	0.0008212	0.1	No	7	0.002036	0.001023	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.0015	0.000863	0.1	No	7	0.001066	0.0002034	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	GWB-4R	0.003901	0.002699	0.05	No	23	0.004088	0.001252	39.13	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	23	0.004794	0.001133	78.26	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.00204	0.05	No	23	0.00841	0.009859	52.17	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	23	0.003363	0.004416	8.696	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.008233	0.003606	0.05	No	23	0.007751	0.0058	17.39	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	23	0.004539	0.001044	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004373	0.003084	0.05	No	24	0.003728	0.001263	4.167	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.00466	0.002123	0.05	No	23	0.005092	0.00278	47.83	Kaplan-Meier	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-16	0.005044	0.003225	0.05	No	24	0.004134	0.001783	8.333	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	23	0.003739	0.001708	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	23	0.004804	0.0006865	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	23	0.003966	0.001612	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01868	0.009858	0.05	No	23	0.01427	0.008437	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	23	0.00443	0.00129	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	19	0.001797	0.0006085	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	19	0.001809	0.0005743	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	19	0.001693	0.0007295	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	19	0.001217	0.0009445	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.0002	0.002	No	19	0.001236	0.0009214	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	19	0.001796	0.0006101	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	19	0.001795	0.0006133	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	19	0.001395	0.0009156	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	20	0.001906	0.0004226	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	19	0.001897	0.0004474	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	19	0.001499	0.0008616	73.68	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0371	0.0037	0.43	No	18	0.0185	0.01611	5.556	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWB-5R	0.01059	0.004573	0.43	No	18	0.009087	0.008212	5.556	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02593	0.009097	0.43	No	18	0.02249	0.02338	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.0064	0.0042	0.43	No	18	0.005508	0.002651	11.11	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-11	0.00685	0.0021	0.43	No	18	0.004105	0.002967	16.67	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.006386	0.003949	0.43	No	18	0.005283	0.002054	11.11	None	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.0029	0.43	No	18	0.01533	0.007789	66.67	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01532	0.007052	0.43	No	21	0.01118	0.007492	14.29	None	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.01	0.0022	0.43	No	20	0.00499	0.003486	30	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	21	0.01227	0.01879	19.05	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.01	0.0026	0.43	No	18	0.006322	0.003606	38.89	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.00777	0.43	No	18	0.01748	0.005868	83.33	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.00768	0.0026	0.43	No	20	0.005225	0.003146	25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.01	0.0029	0.43	No	18	0.005396	0.003194	22.22	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-22	0.02	0.002	0.43	No	18	0.01406	0.01013	55.56	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.0103	0.43	No	18	0.01657	0.006838	77.78	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	6	0.01736	0.006475	83.33	None	No	0.0155	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	6	0.01707	0.007185	83.33	None	No	0.0155	NP (NDs)
Zinc (mg/L)	GWB-4R	0.02	0.0052	0.16	No	18	0.01214	0.006914	38.89	None	No	0.01	NP (normality)
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	18	0.01634	0.007165	77.78	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.0121	0.0036	0.16	No	18	0.01051	0.008417	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-1	0.02	0.00578	0.16	No	18	0.01579	0.007155	72.22	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.004	0.16	No	18	0.01459	0.00791	66.67	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0025	0.16	No	18	0.009313	0.008728	27.78	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.037	0.0027	0.16	No	18	0.02064	0.01713	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	21	0.01712	0.006242	80.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	20	0.01905	0.005646	85	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	21	0.01422	0.007898	61.9	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01156	0.006743	0.16	No	18	0.009149	0.003977	11.11	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.02	0.005	0.16	No	18	0.01694	0.01238	61.11	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	20	0.01882	0.005643	80	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.0071	0.16	No	18	0.015	0.007552	66.67	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0054	0.16	No	18	0.01316	0.007455	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	18	0.01099	0.008635	33.33	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01316	0.006698	0.16	No	6	0.0149	0.005858	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	6	0.01545	0.007458	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Zinc (mg/L)	MW-25D	0.0375	0.002363	0.16	No	6	0.02208	0.01525	50	Kaplan-Meier	sqrt(x)	0.01	Param.

Appendix IV Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:10 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>
Arsenic (mg/L)	GWC-15	0.03389	203	76	Yes	23	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-16	0.005308	110	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWB-4R	0.02124	91	58	Yes	19	0	n/a	n/a	0.05	NP

Appendix IV Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:10 PM

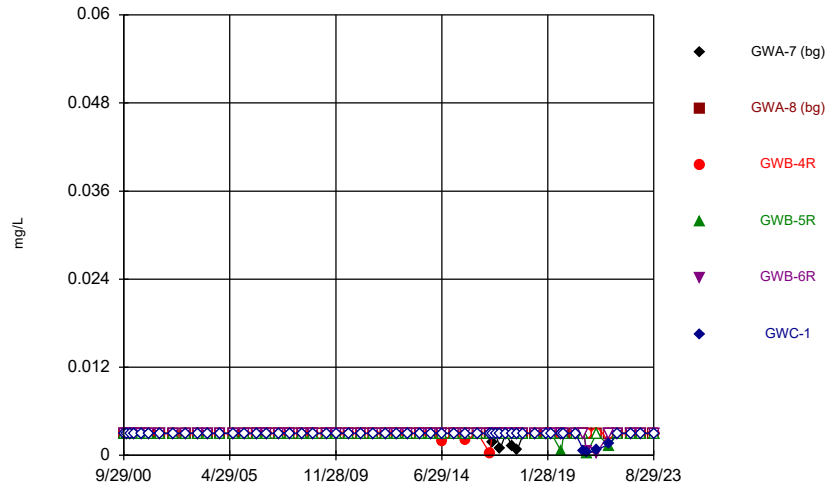
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	-0.0007316	-60	-76	No	23	26.09	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWA-8 (bg)	0	40	81	No	24	75	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-15	0.03389	203	76	Yes	23	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-16	0.005308	110	81	Yes	24	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-20	0.004073	25	76	No	23	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-22	-58	No	19	68.42	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWB-4R	0.02124	91	58	Yes	19	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWC-16	0.009817	36	58	No	19	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWC-20	0.03366	29	58	No	19	0	n/a	n/a	0.05	NP

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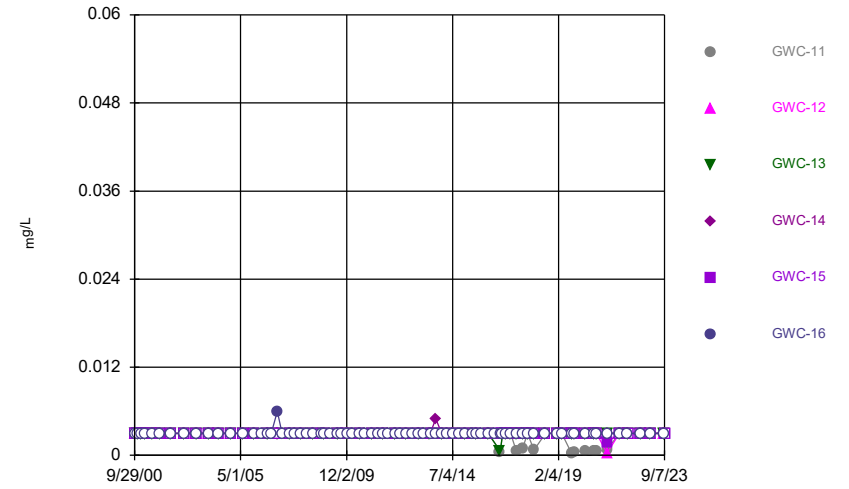
FIGURE A.

Time Series



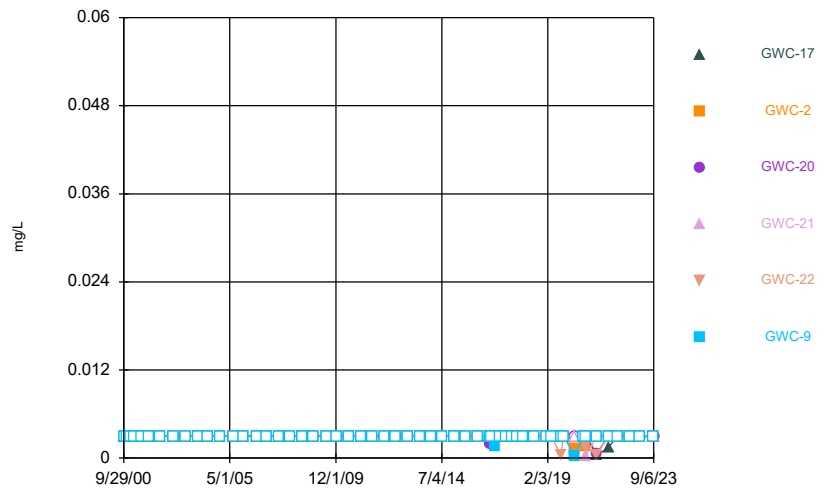
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Time Series



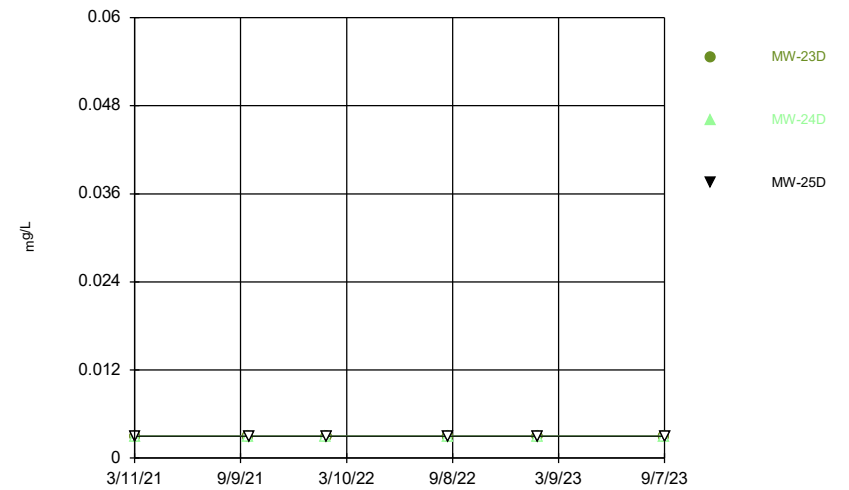
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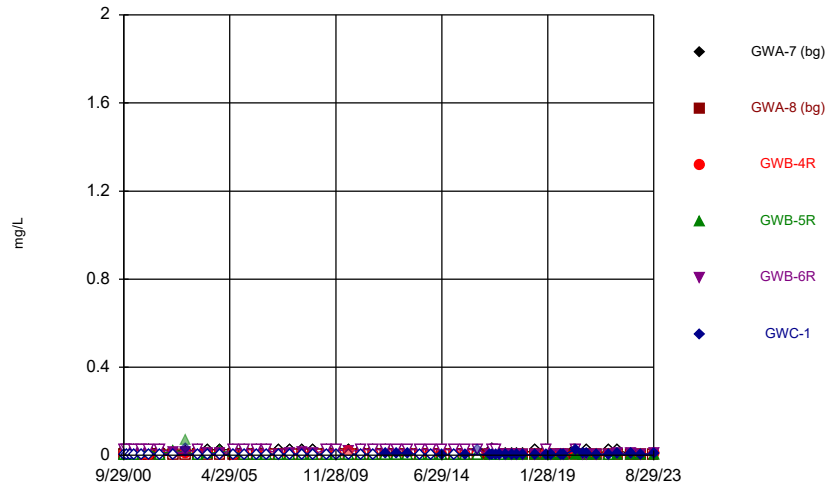
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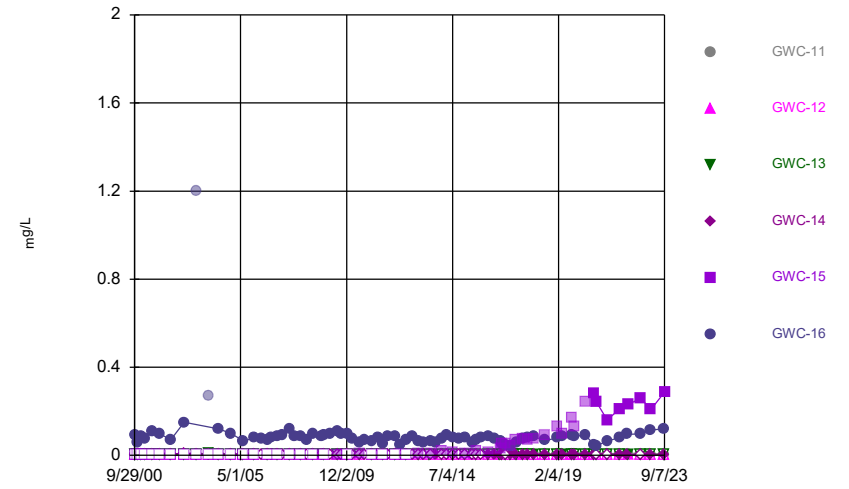
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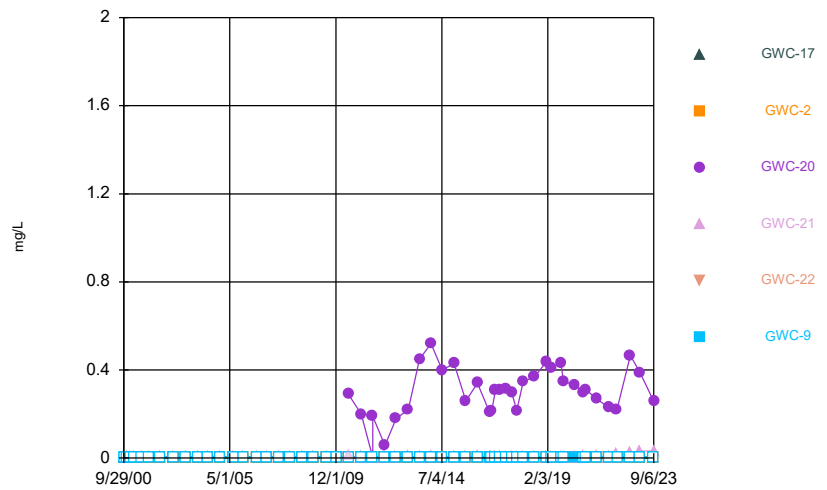
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Time Series



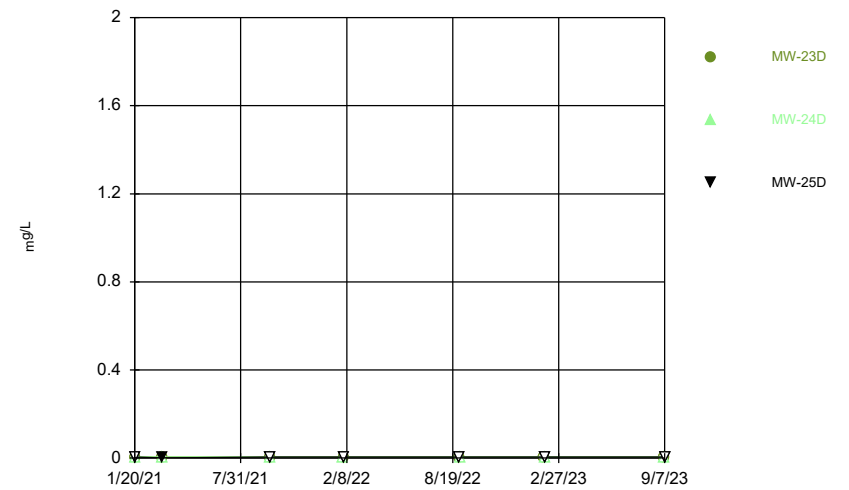
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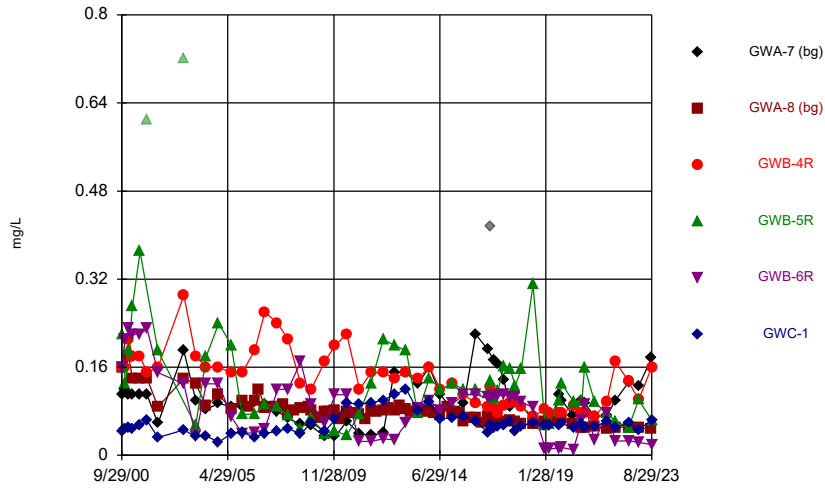
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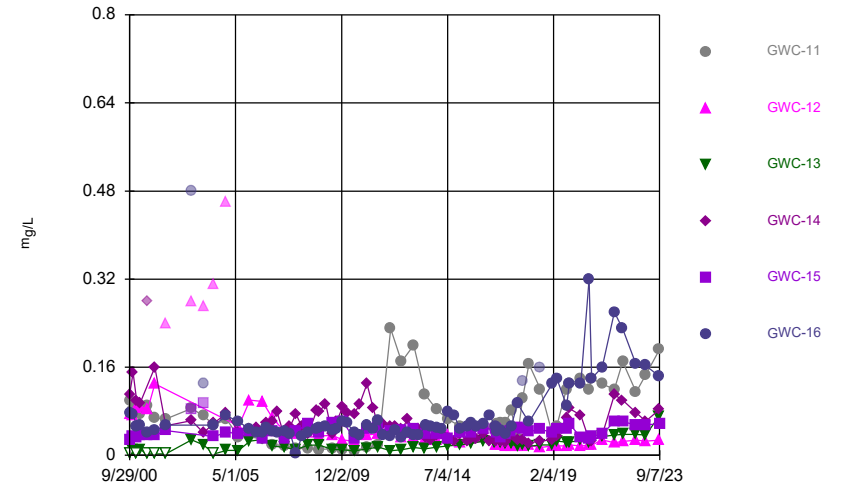
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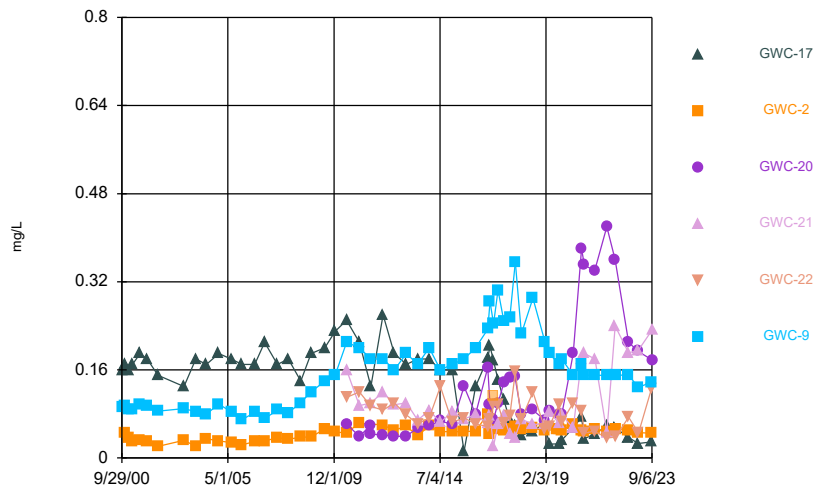
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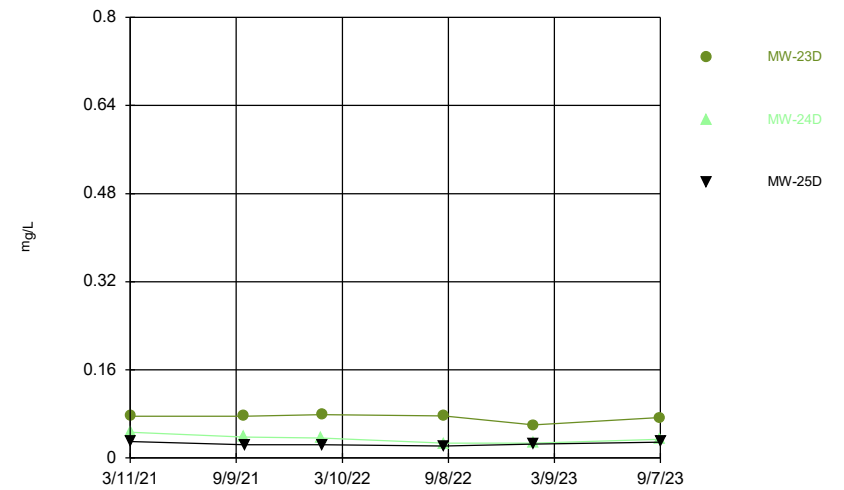
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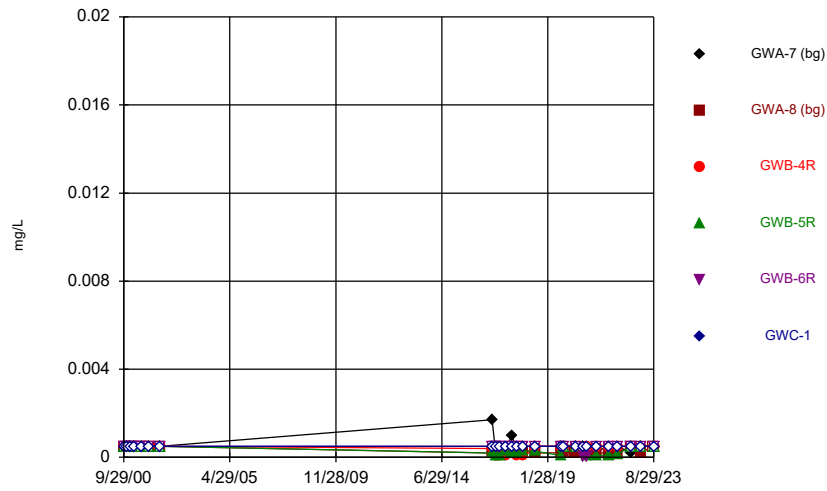
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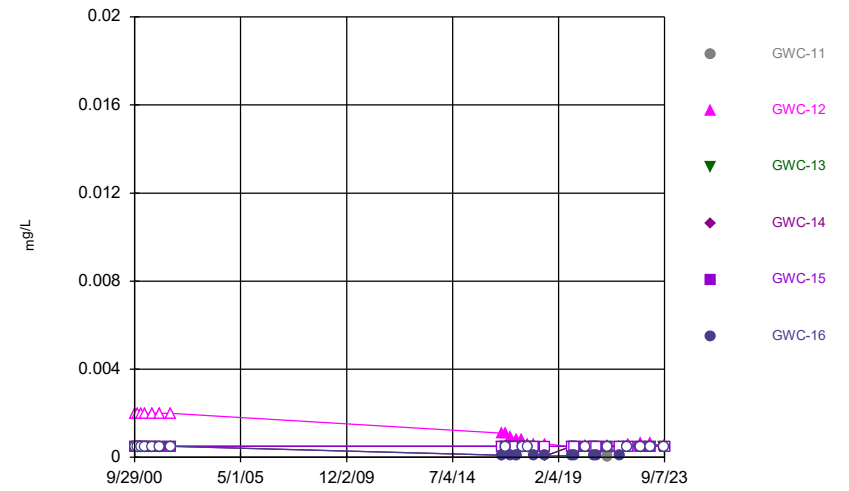
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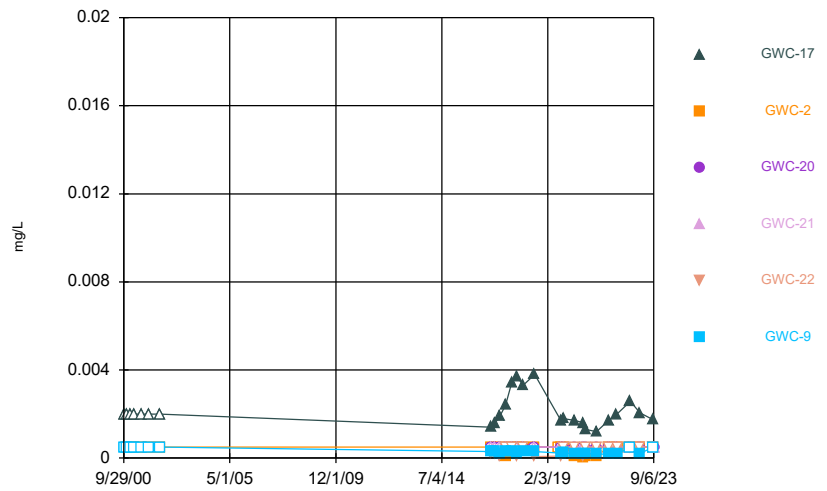
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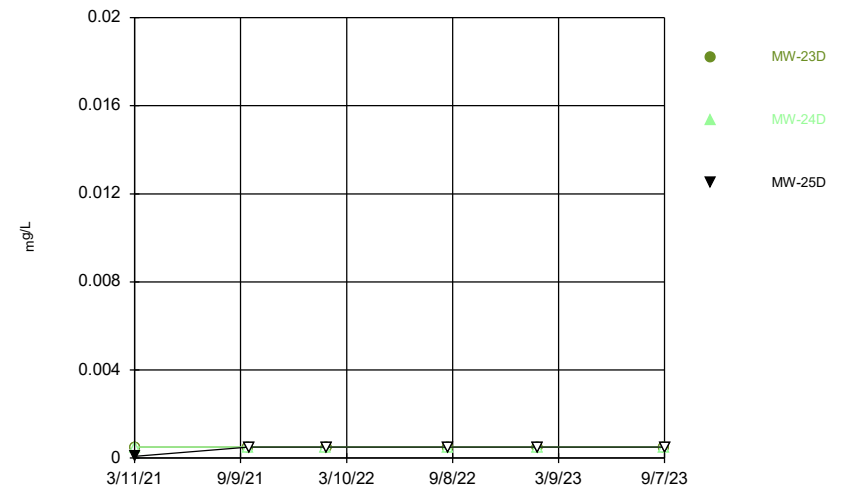
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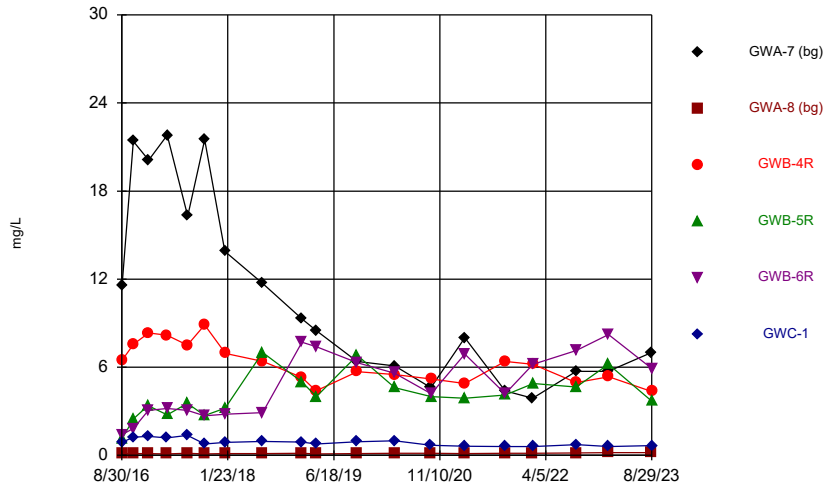
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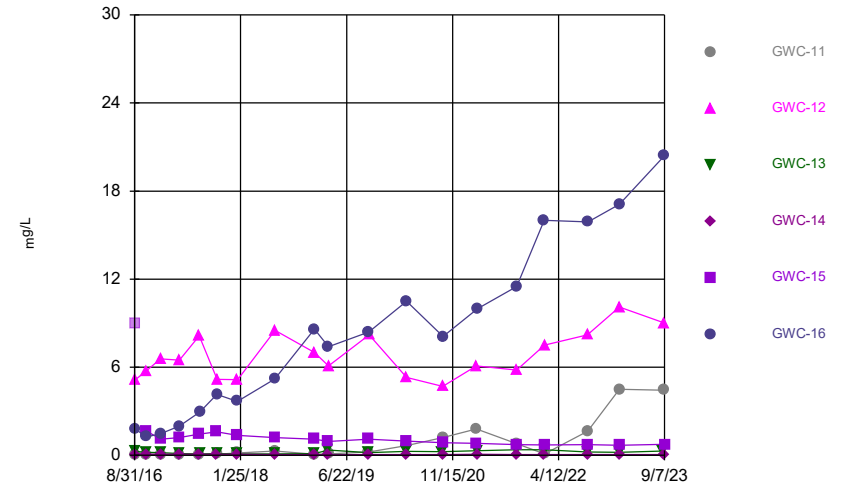
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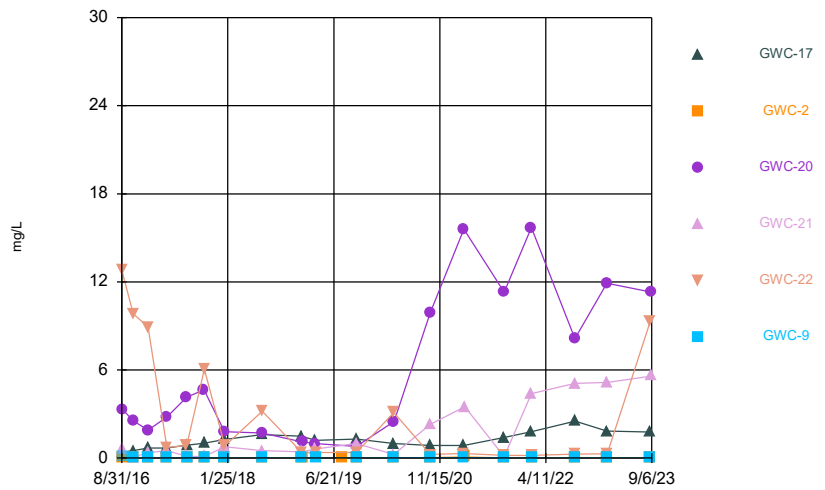
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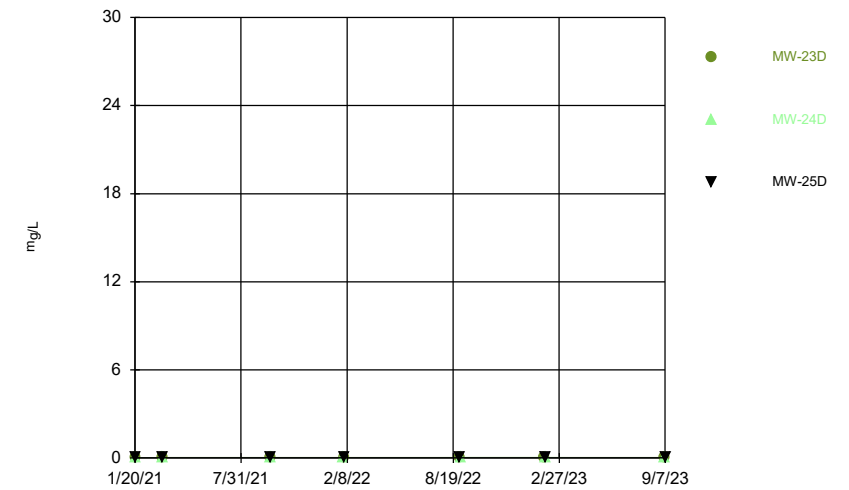
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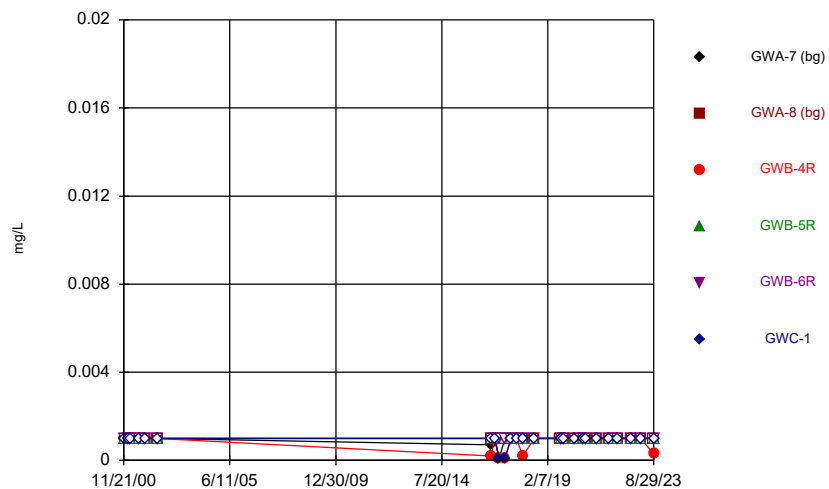
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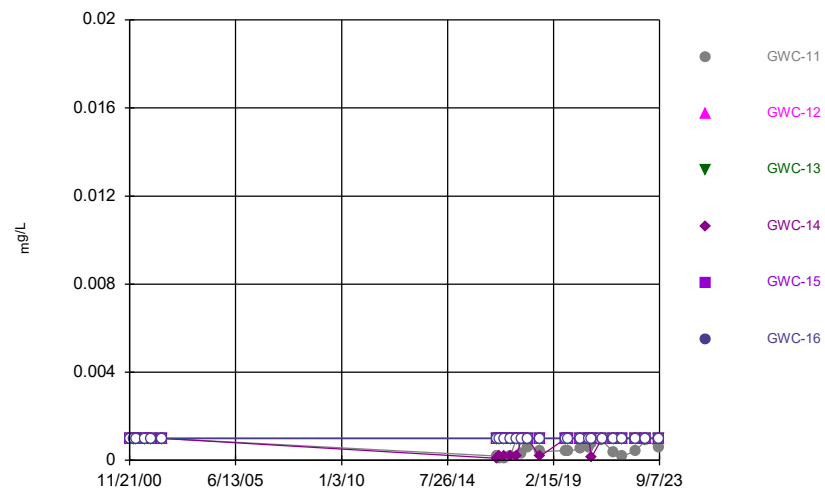
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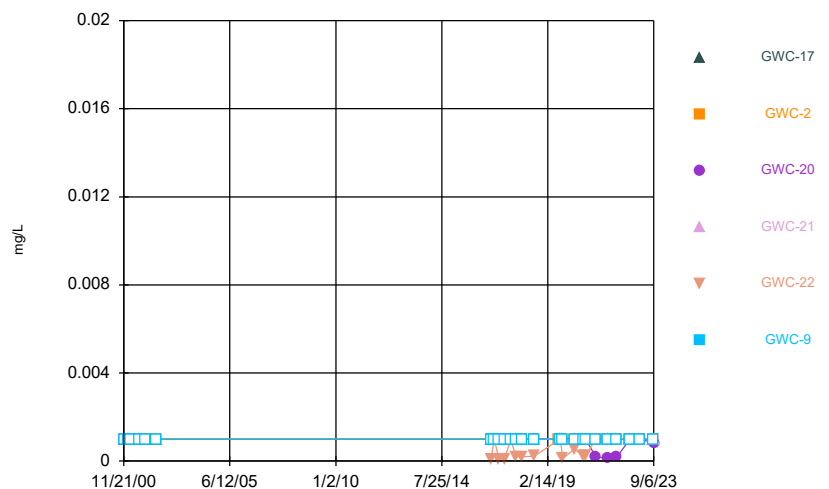
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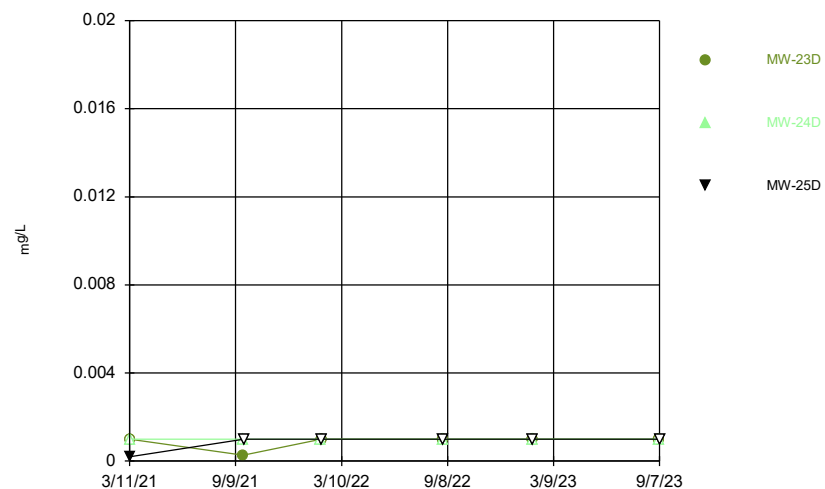
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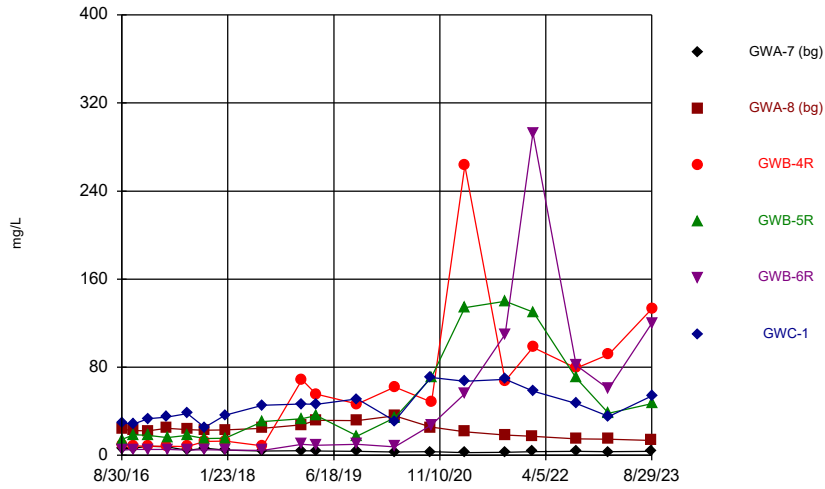
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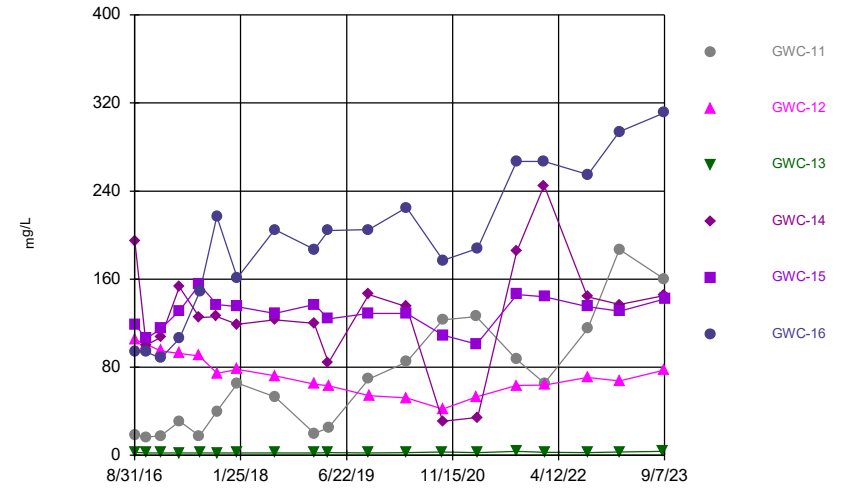
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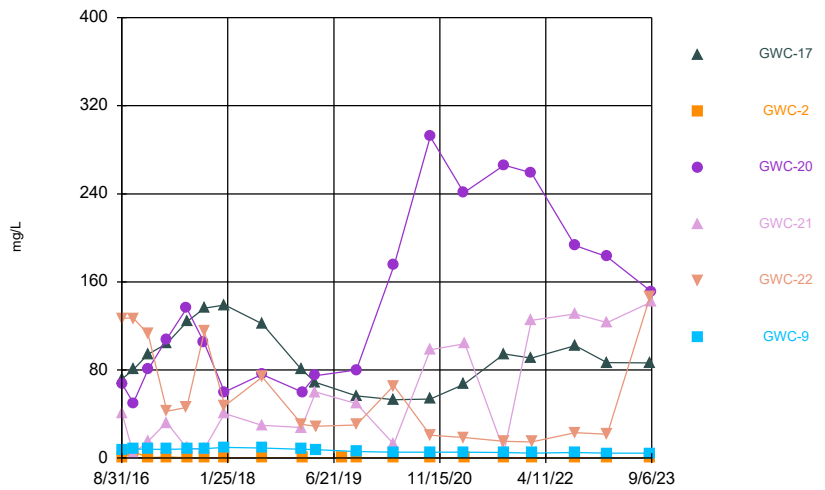
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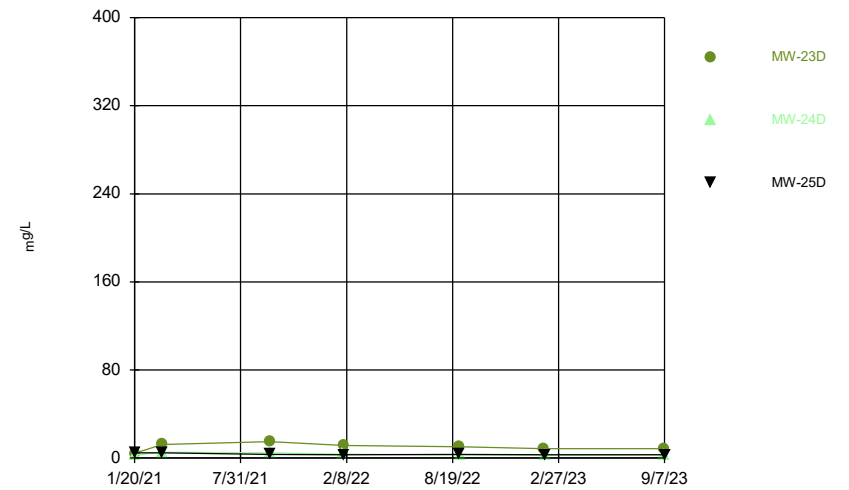
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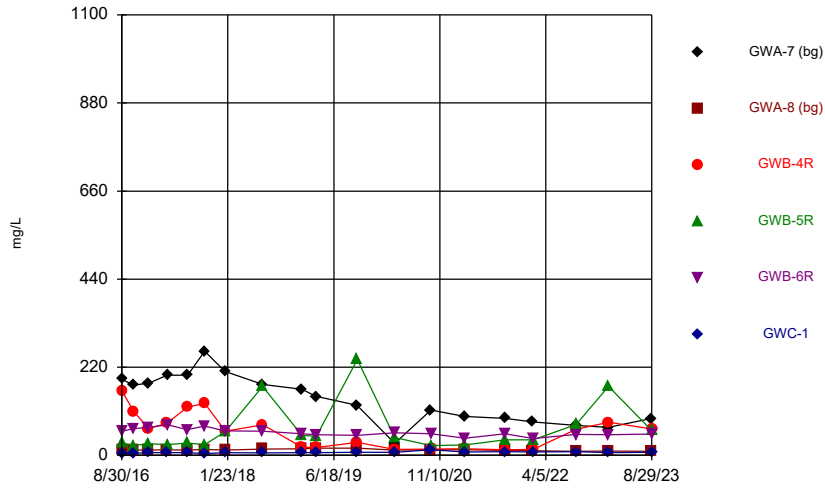
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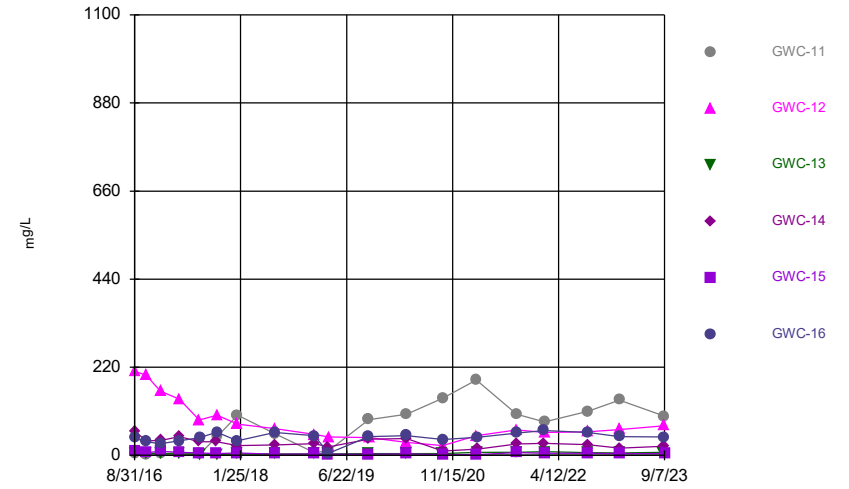
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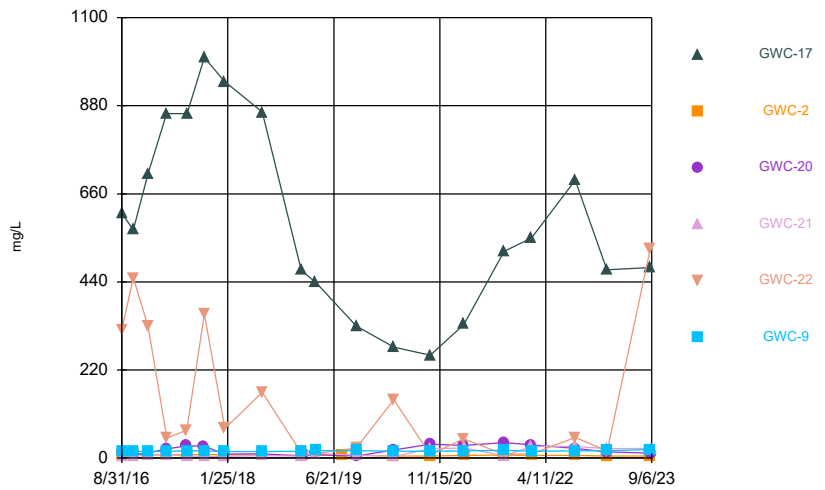
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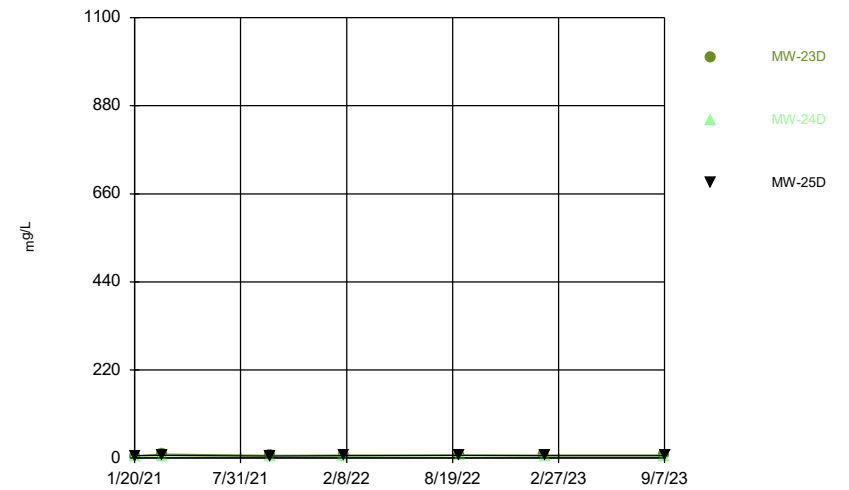
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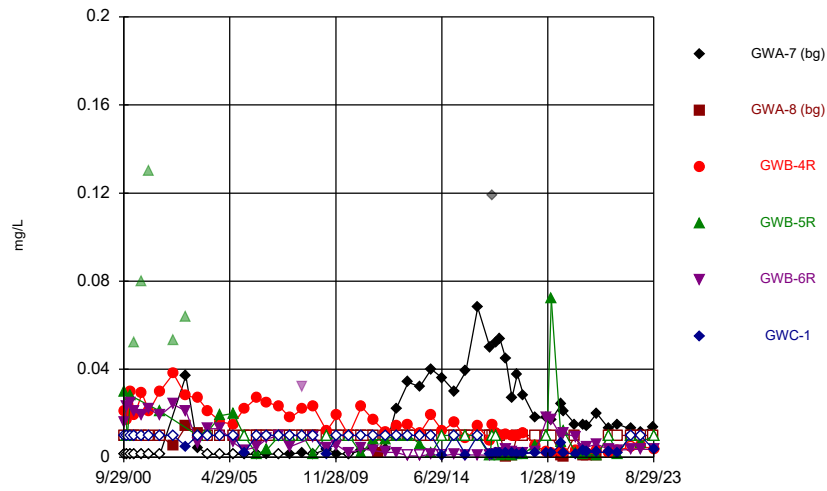
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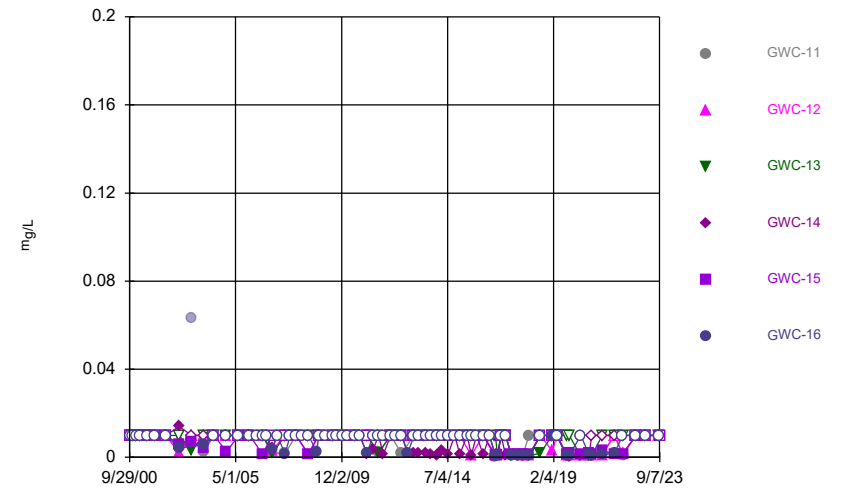
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Time Series



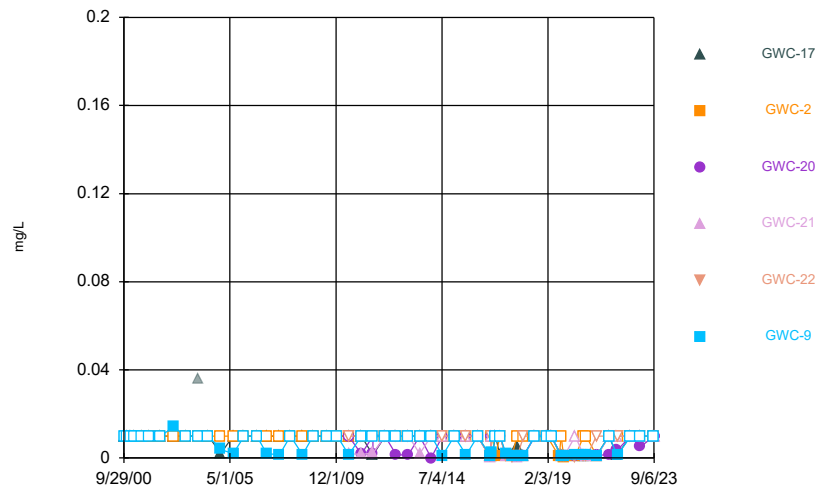
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



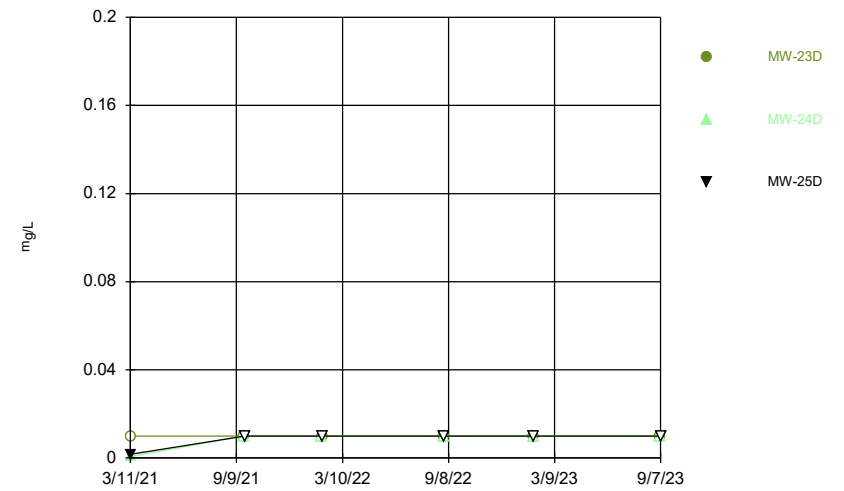
Constituent: Chromium Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



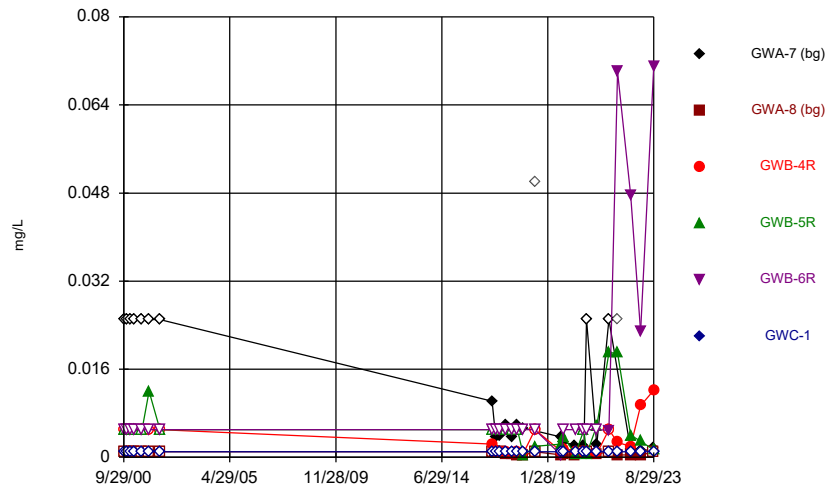
Constituent: Chromium Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



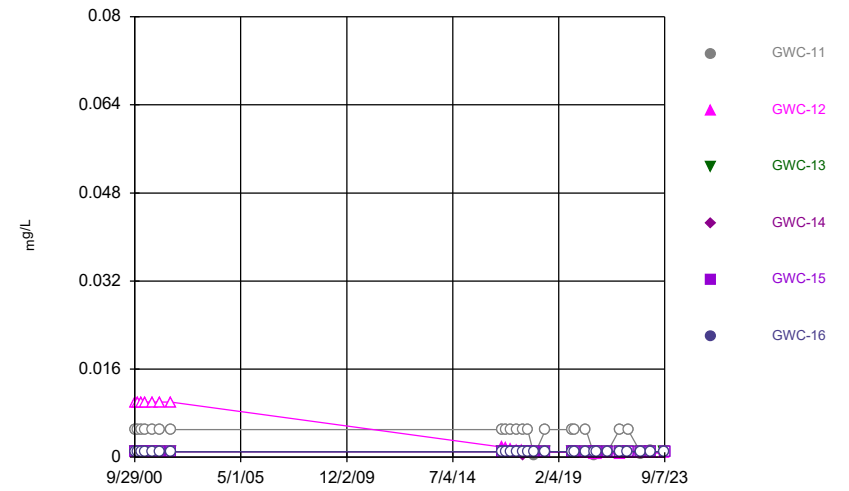
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



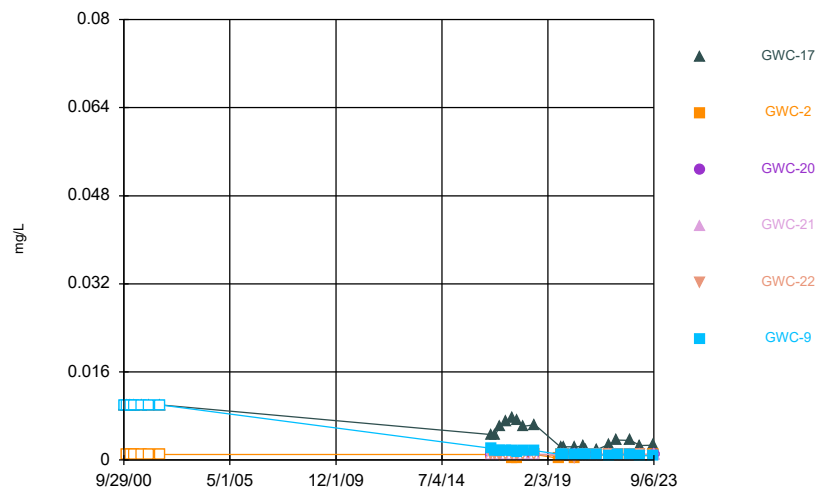
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



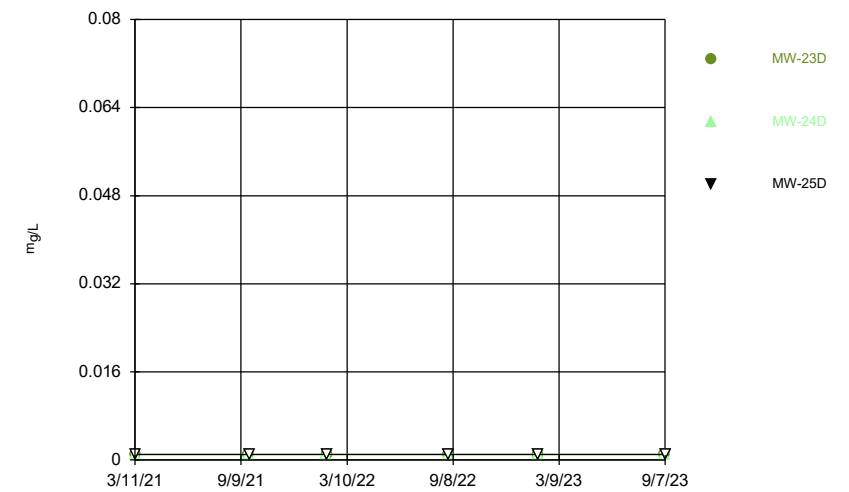
Constituent: Cobalt Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



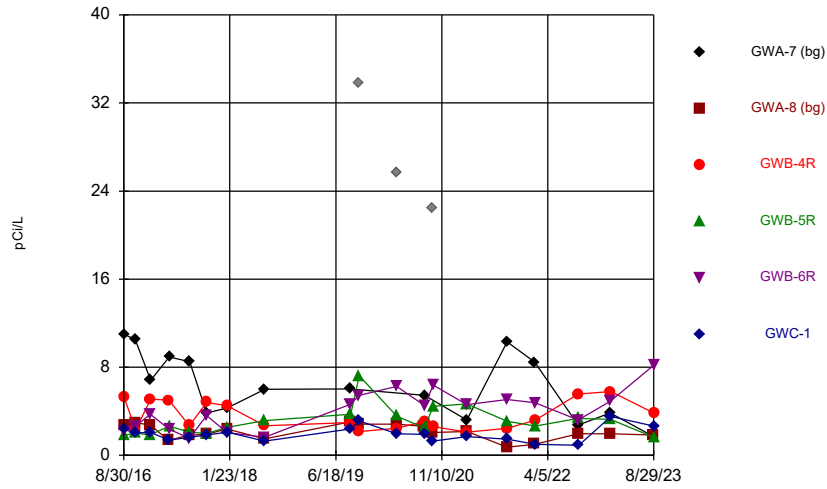
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



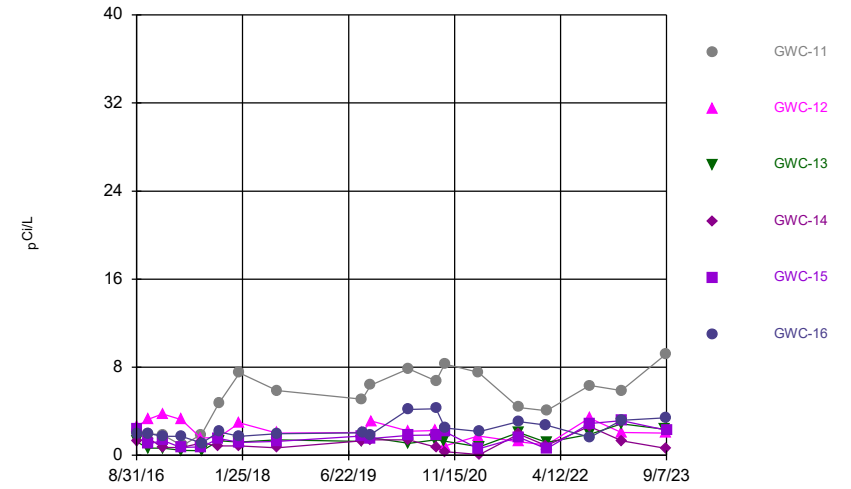
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



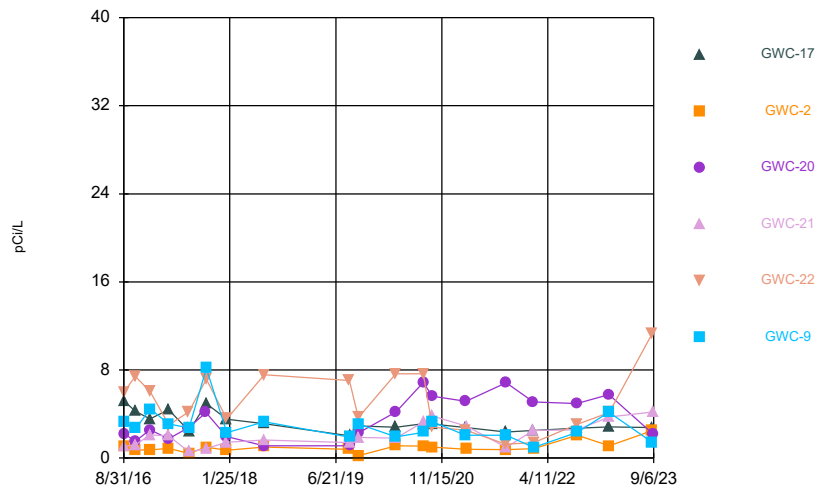
Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



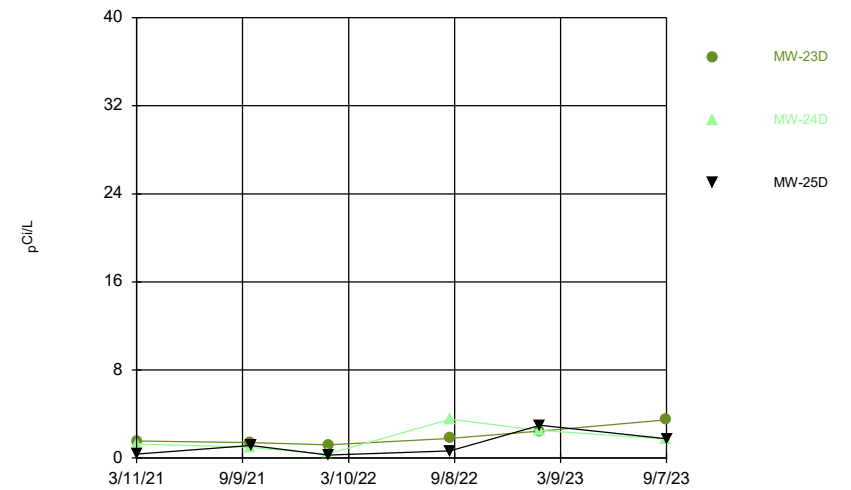
Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



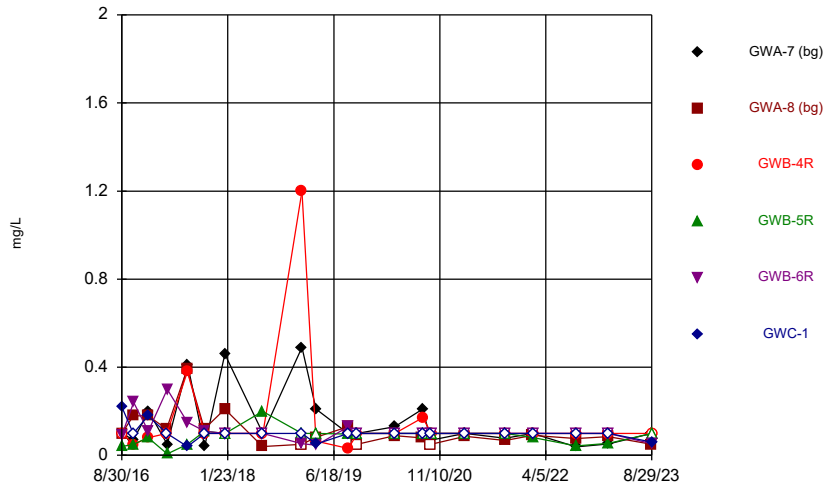
Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



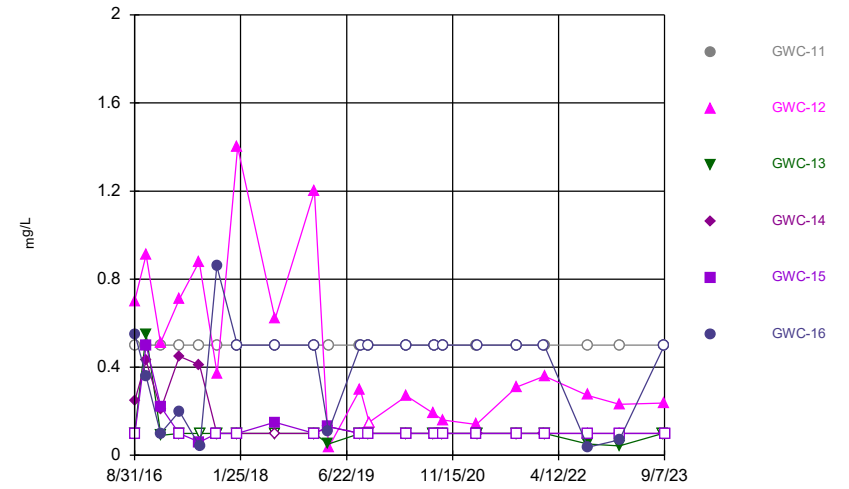
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



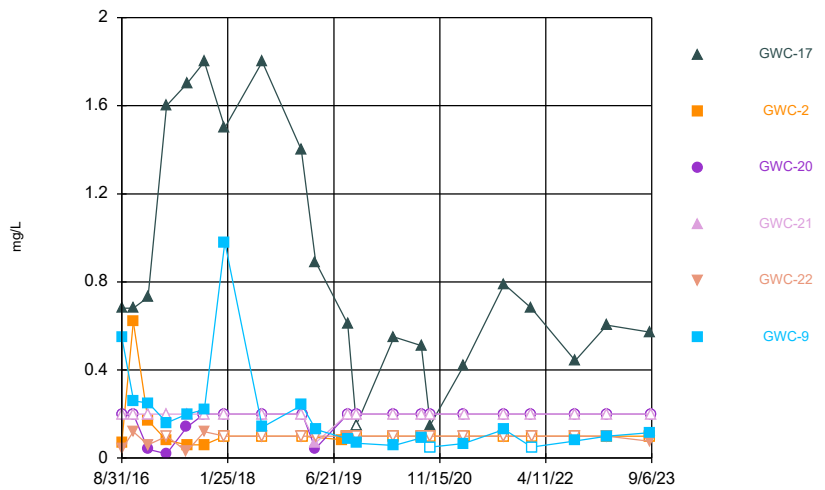
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



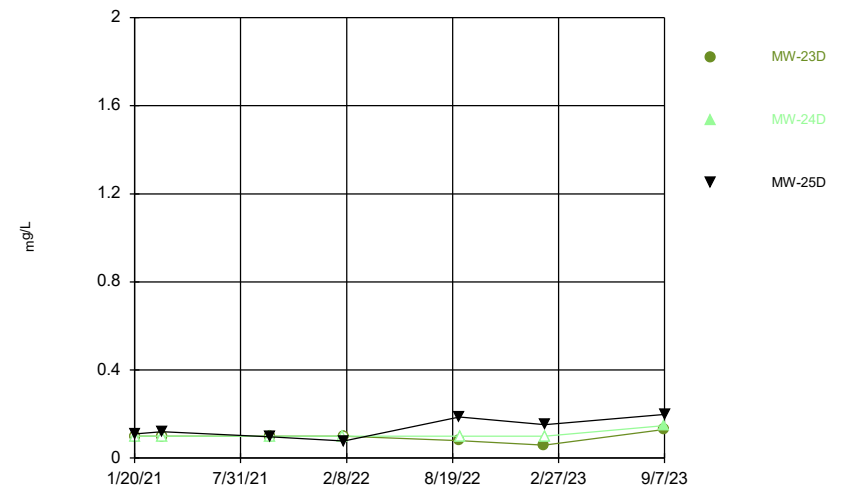
Constituent: Fluoride Analysis Run 11/17/2023 3:37 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



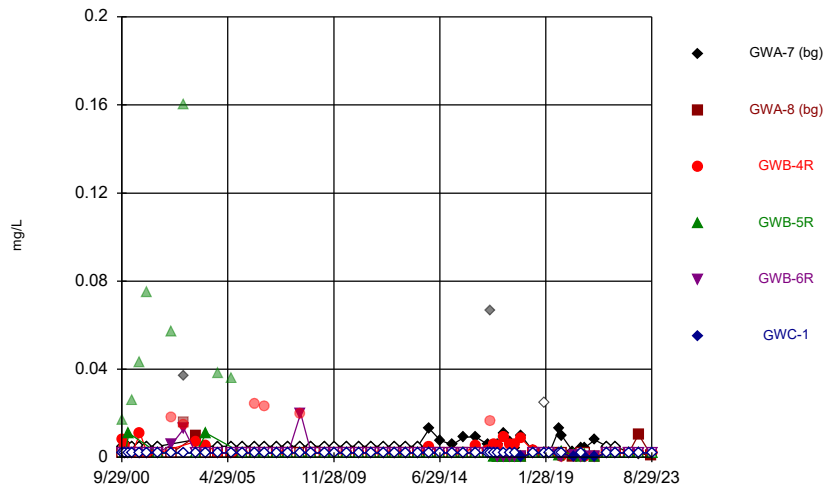
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



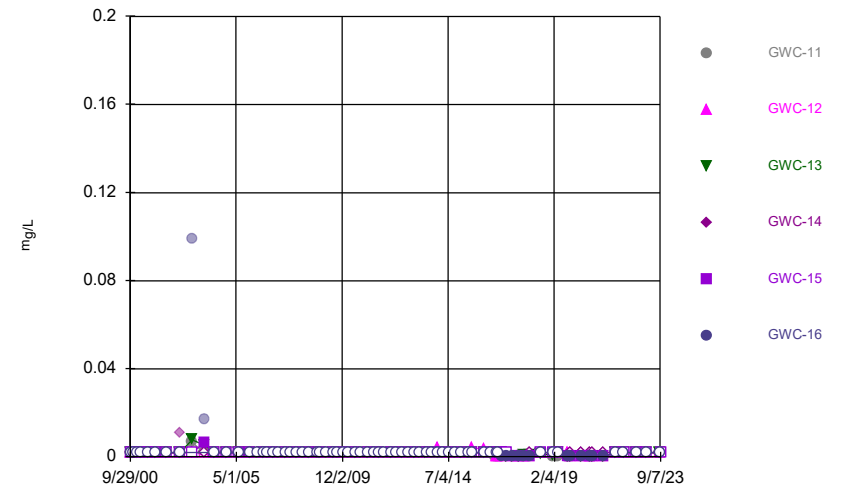
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



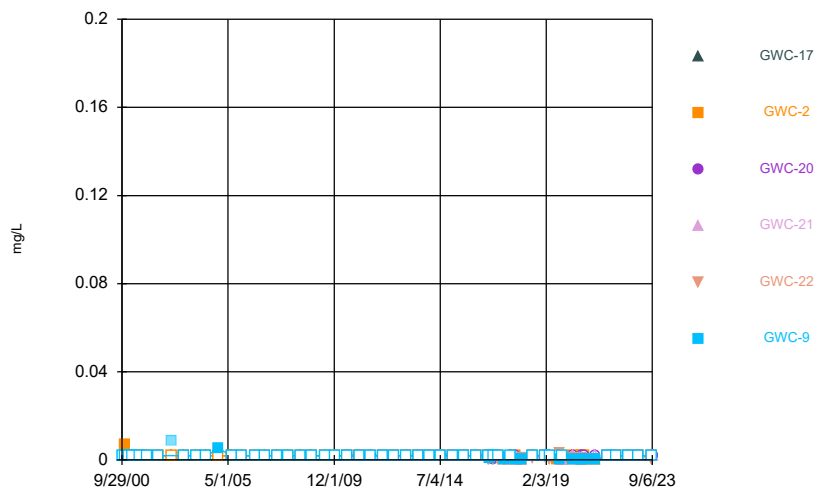
Constituent: Lead Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



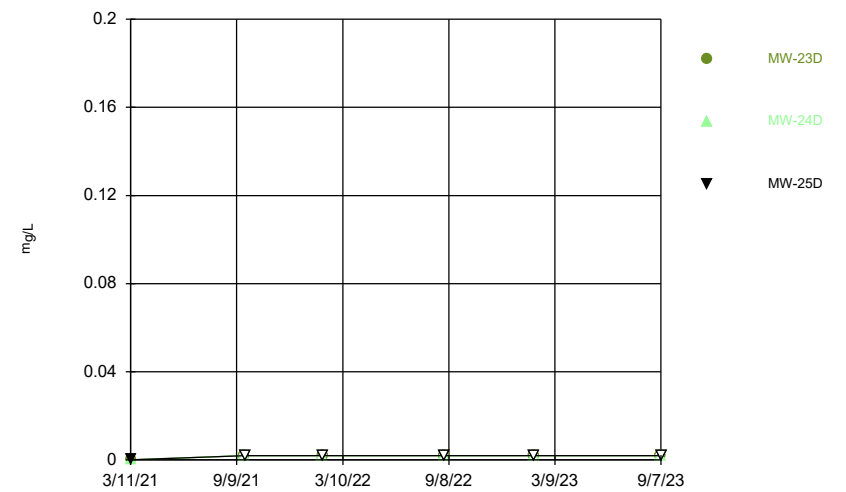
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



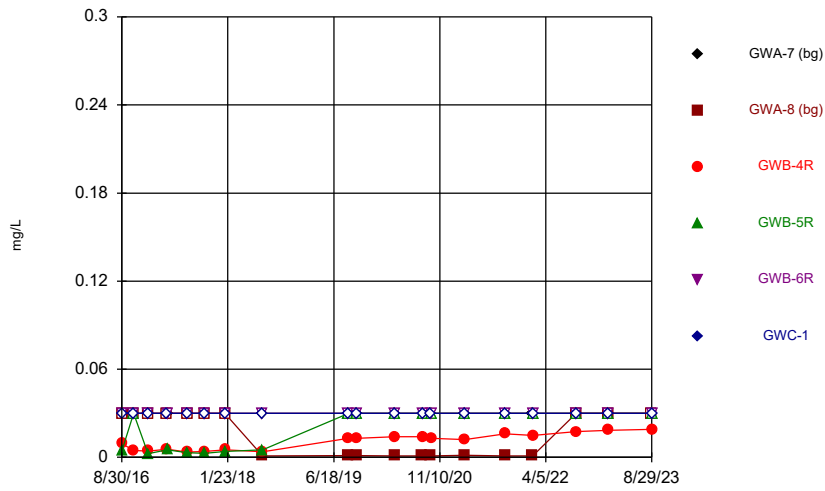
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



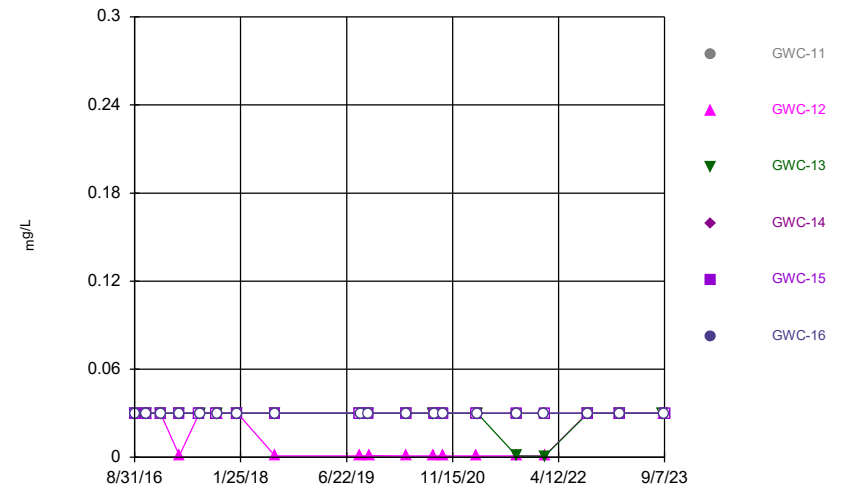
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



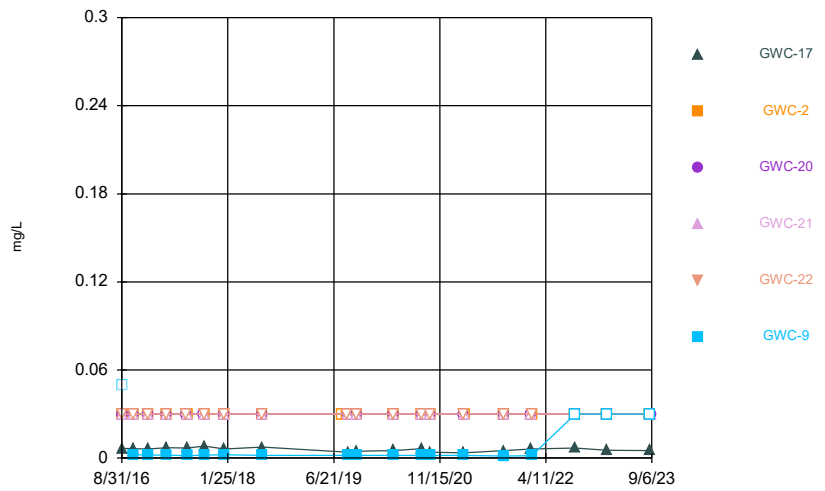
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



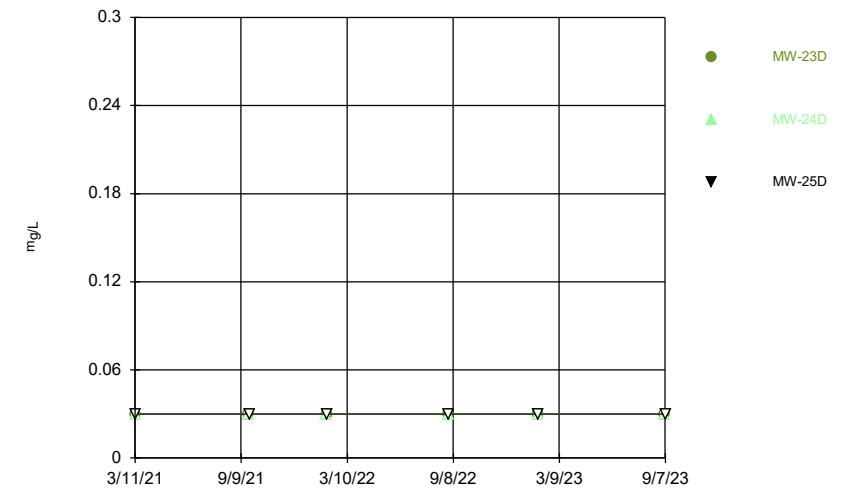
Constituent: Lithium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



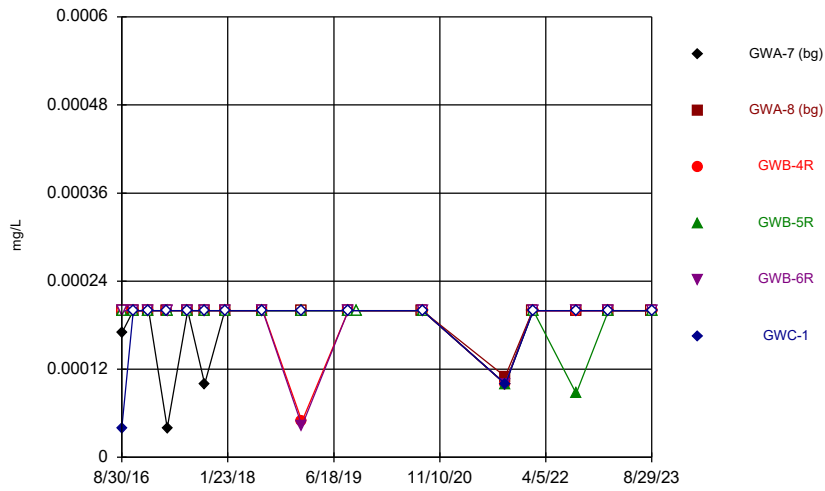
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



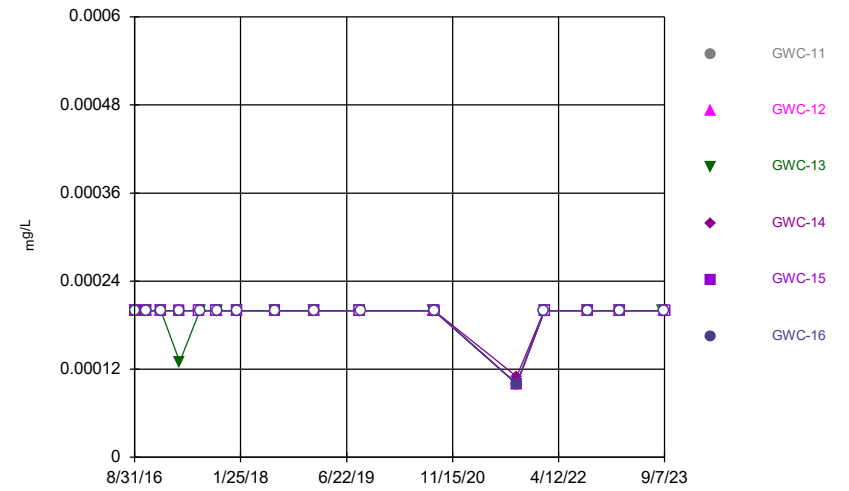
Constituent: Lithium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



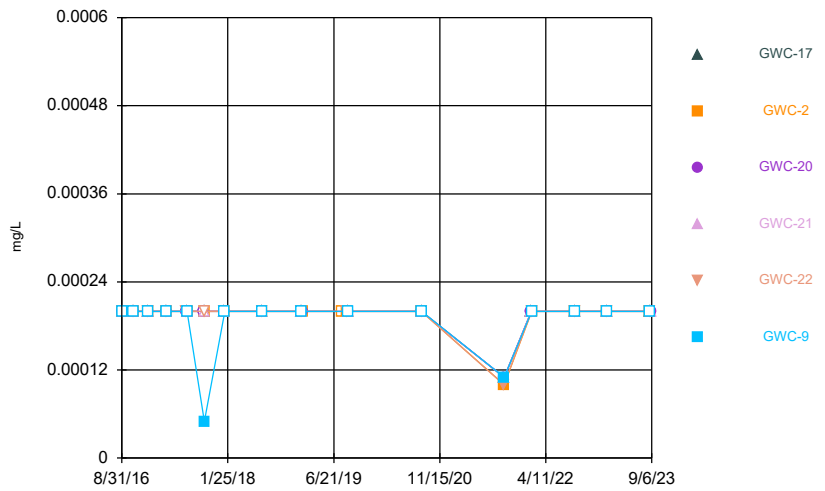
Constituent: Mercury Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



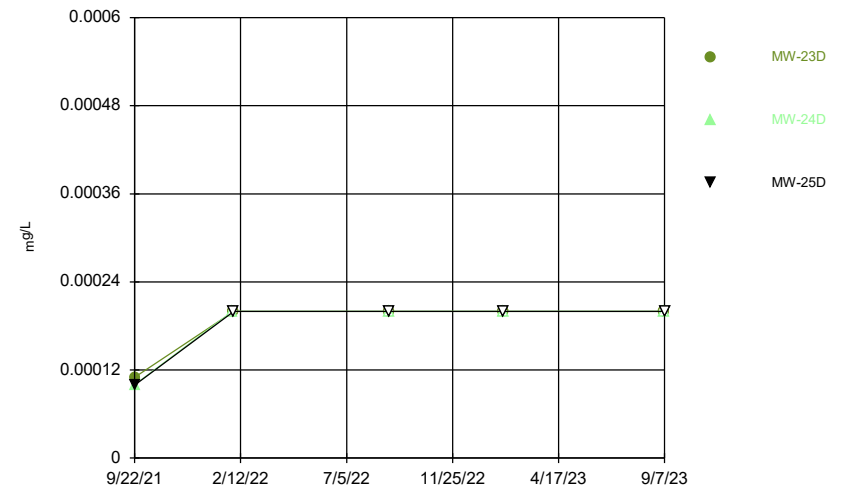
Constituent: Mercury Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



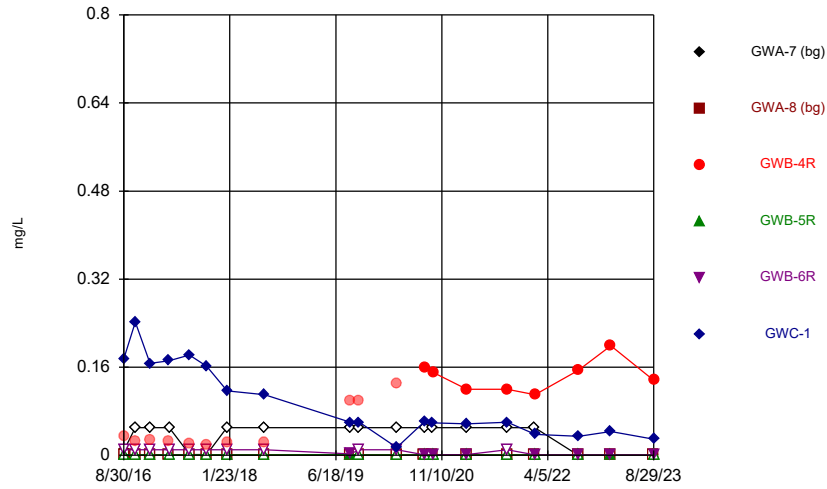
Constituent: Mercury Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



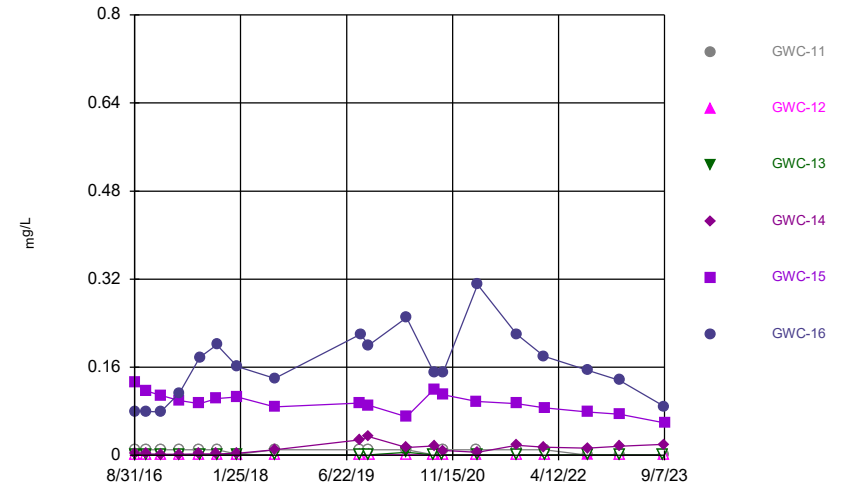
Constituent: Mercury Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



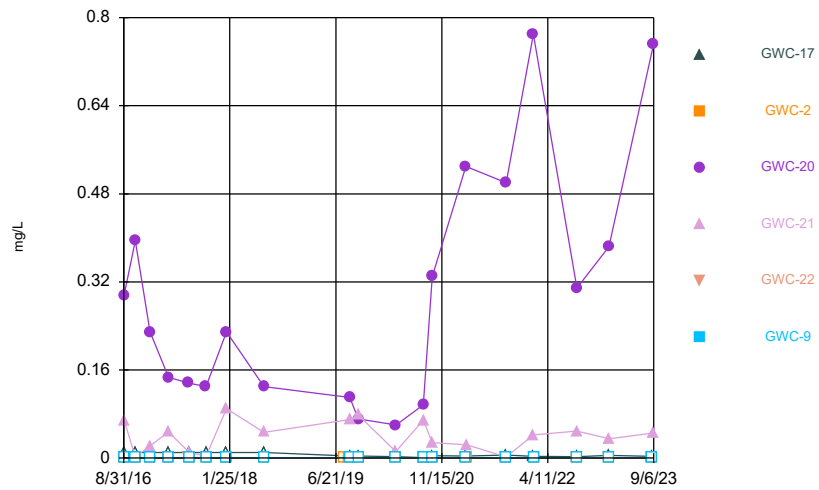
Constituent: Molybdenum Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



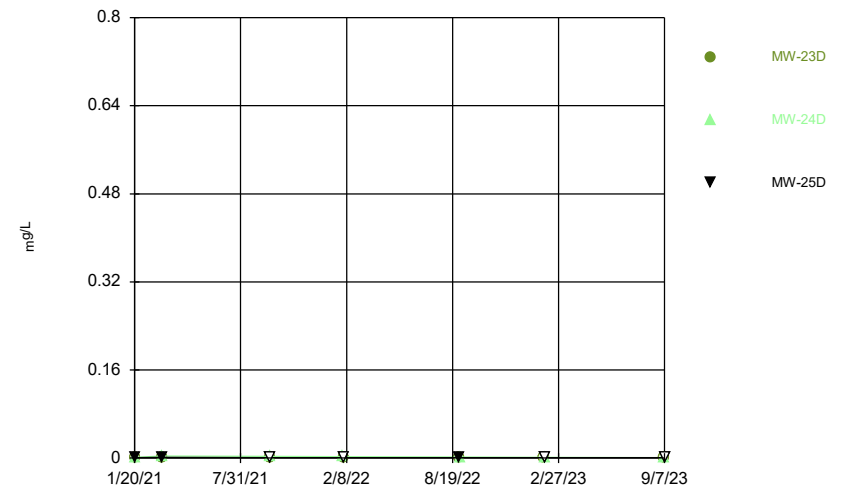
Constituent: Molybdenum Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



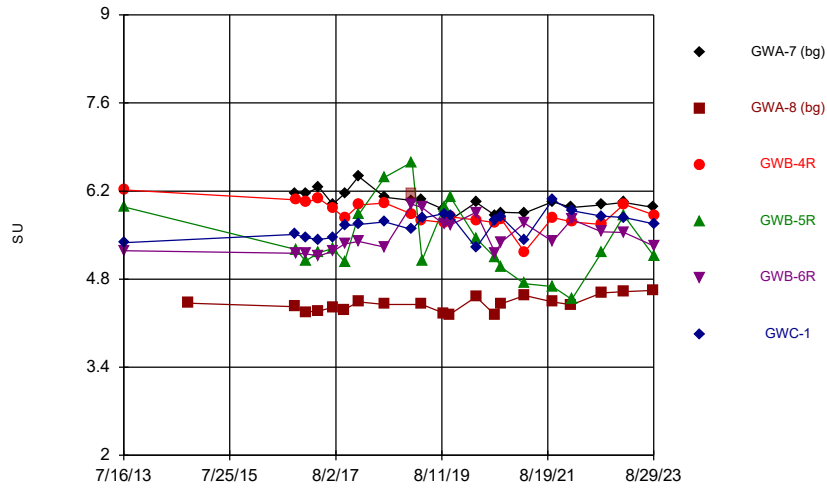
Constituent: Molybdenum Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



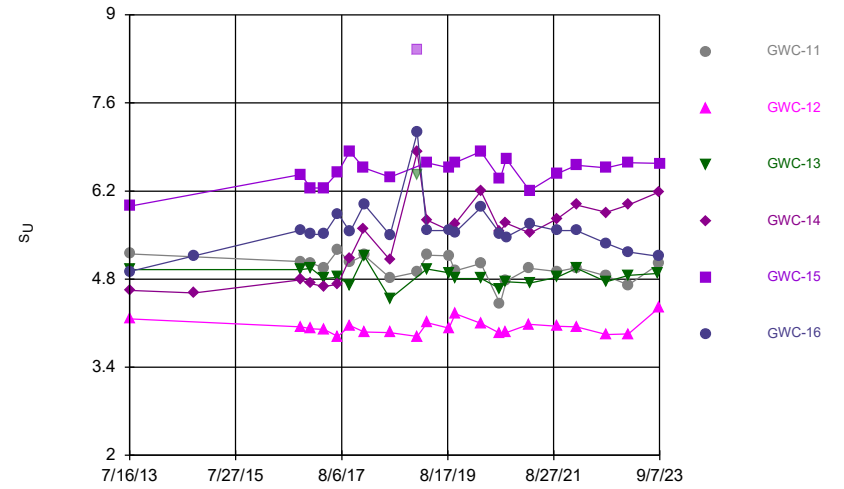
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



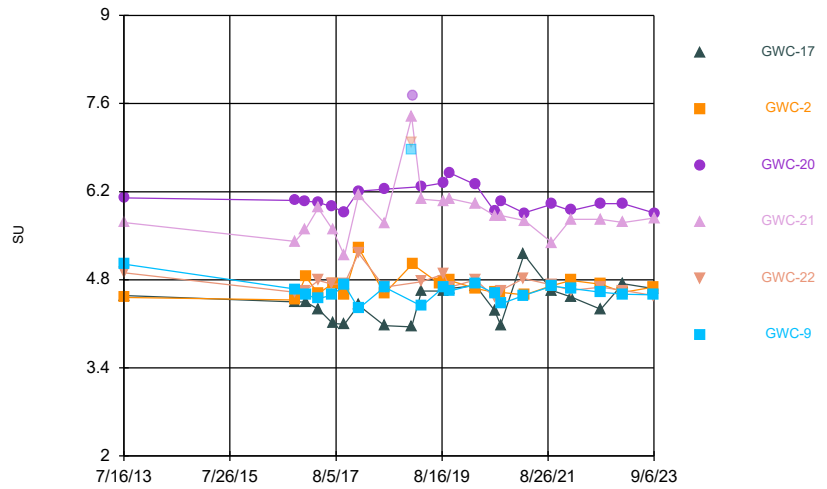
Constituent: pH Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



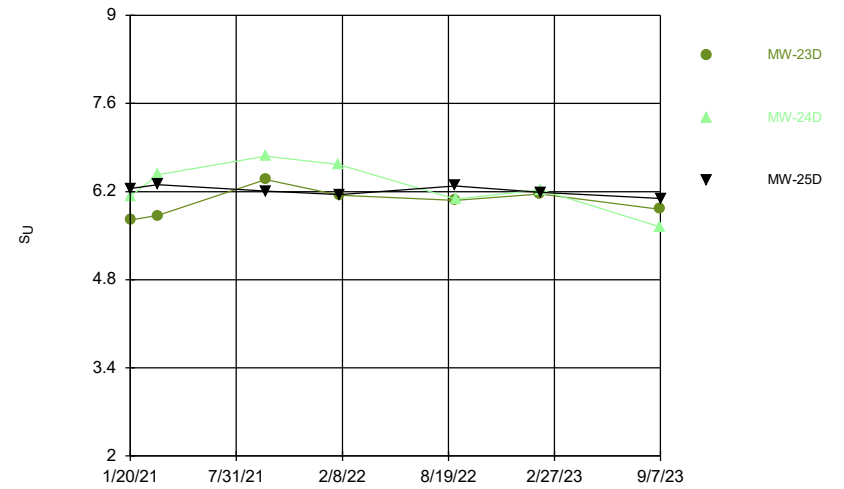
Constituent: pH Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



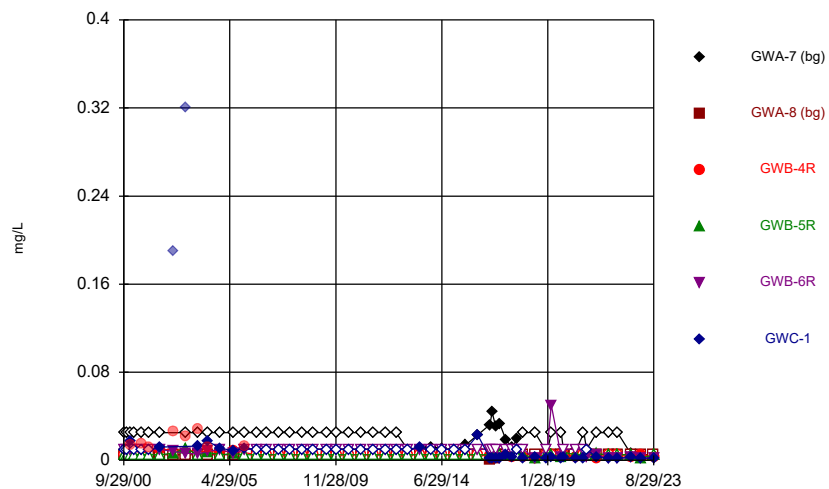
Constituent: pH Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



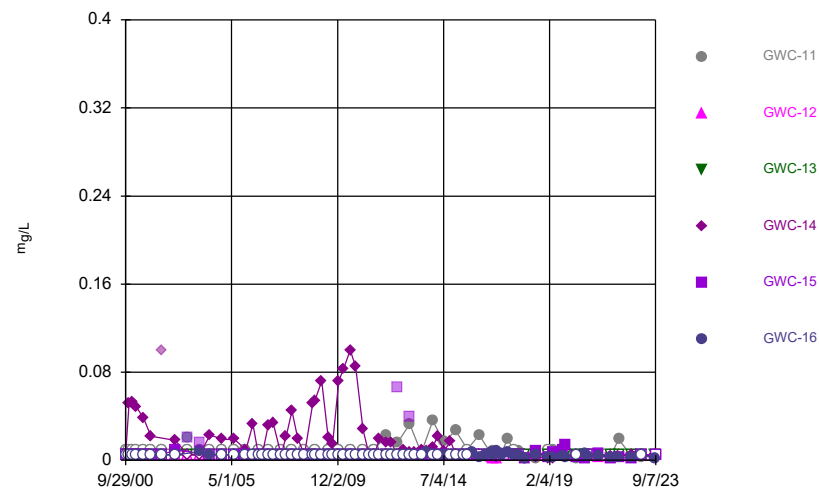
Constituent: pH Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



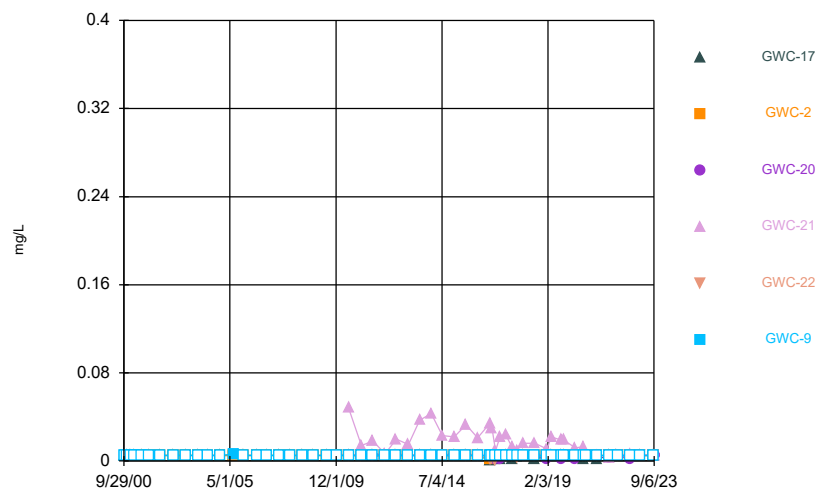
Constituent: Selenium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



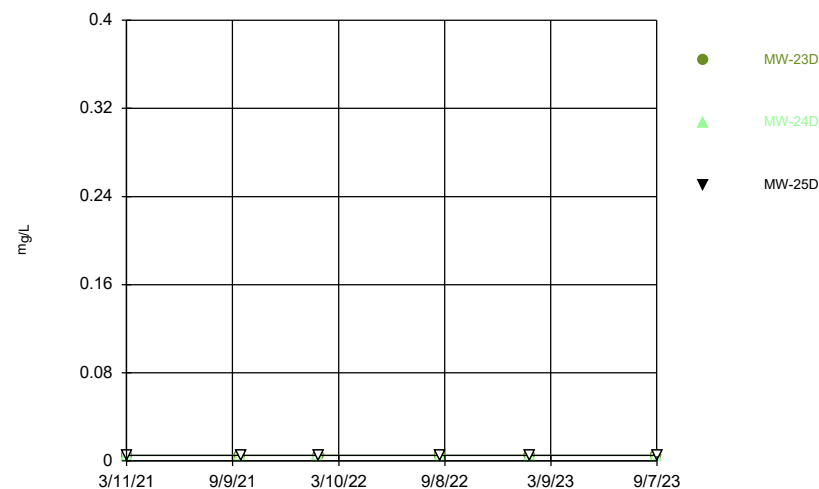
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



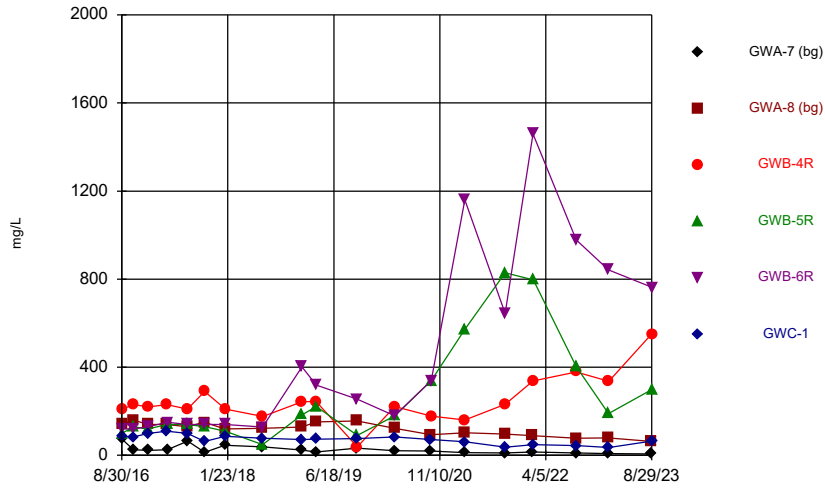
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



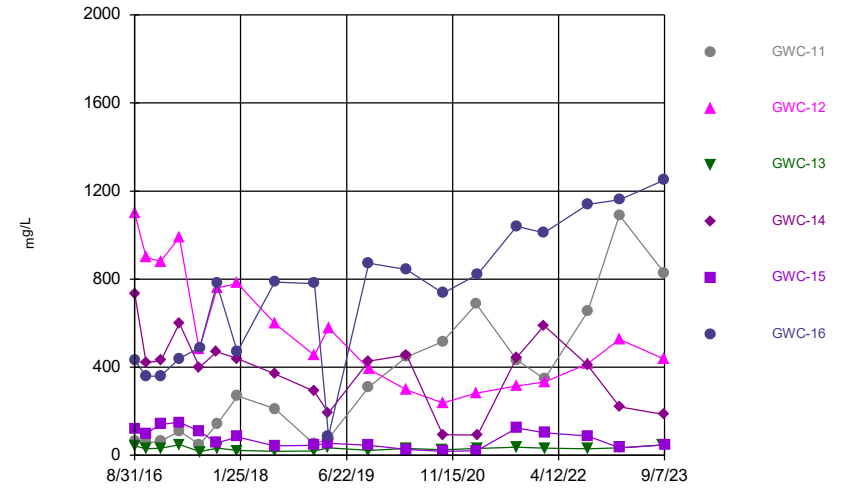
Constituent: Selenium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



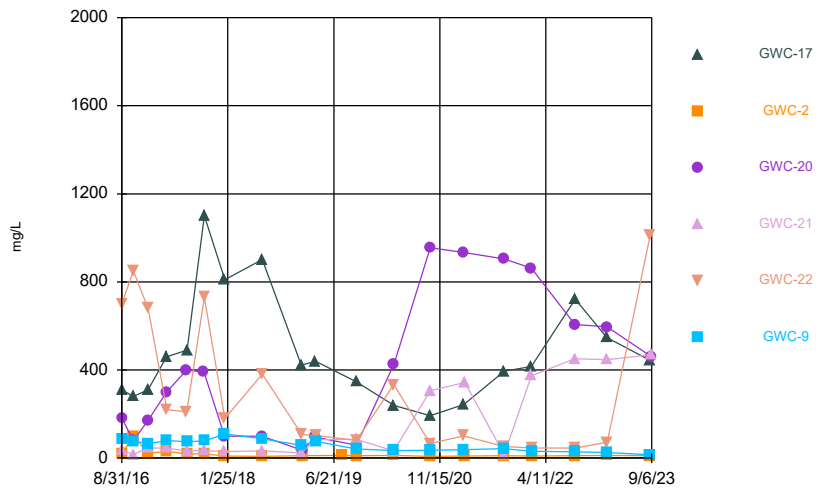
Constituent: Sulfate Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Sulfate Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

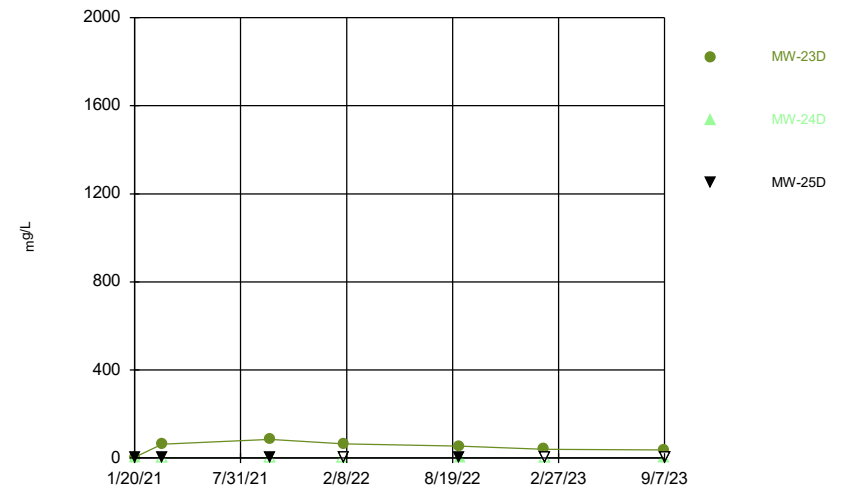
Time Series



Constituent: Sulfate Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

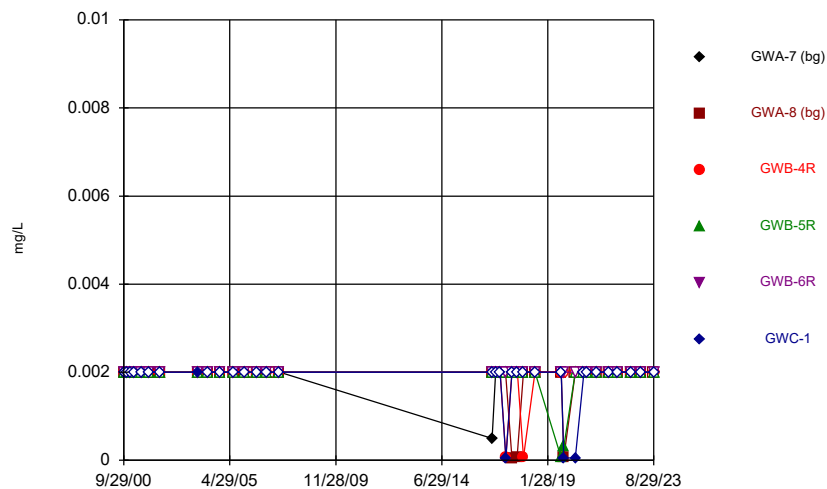
Hollow symbols indicate censored values.

Time Series



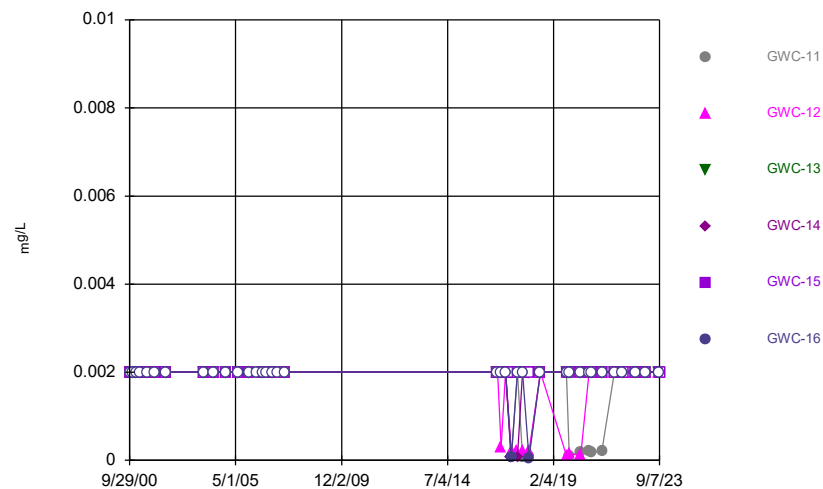
Constituent: Sulfate Analysis Run 11/17/2023 3:38 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



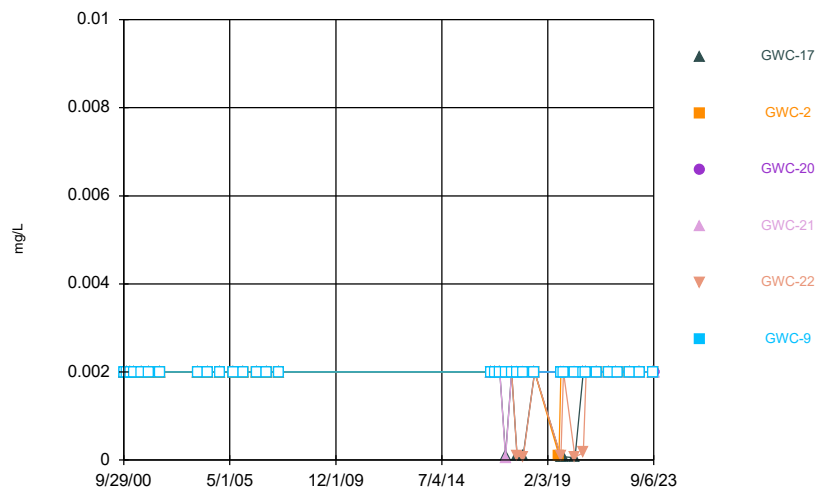
Constituent: Thallium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



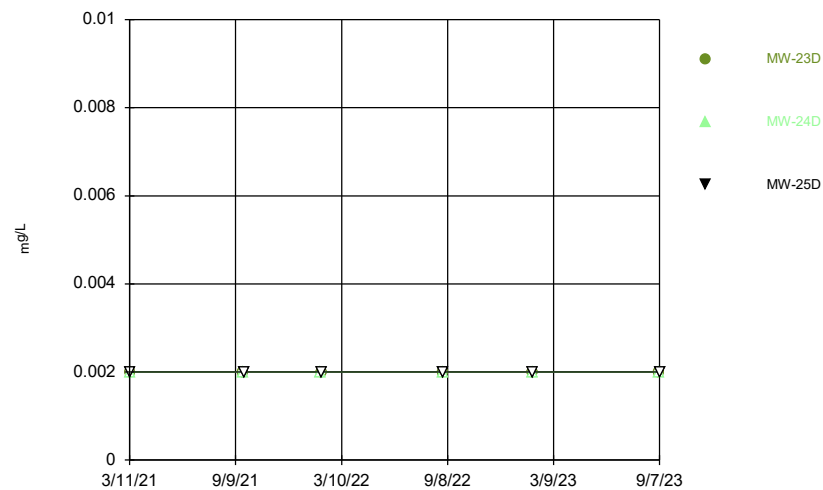
Constituent: Thallium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



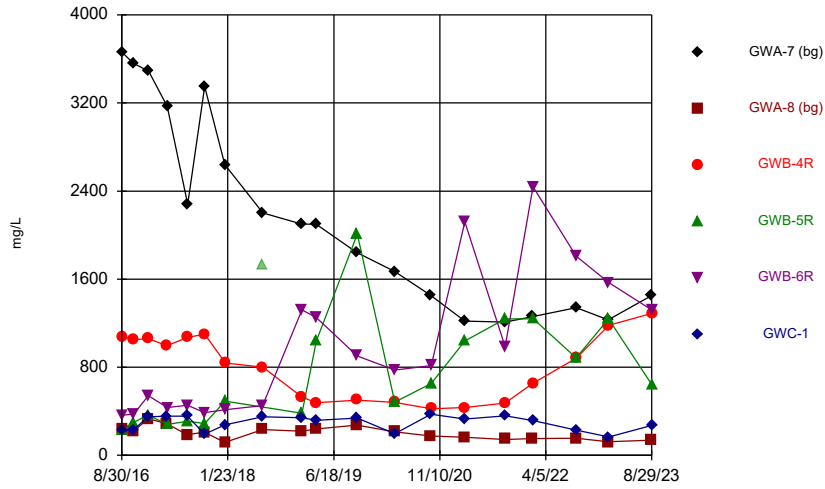
Constituent: Thallium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Thallium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

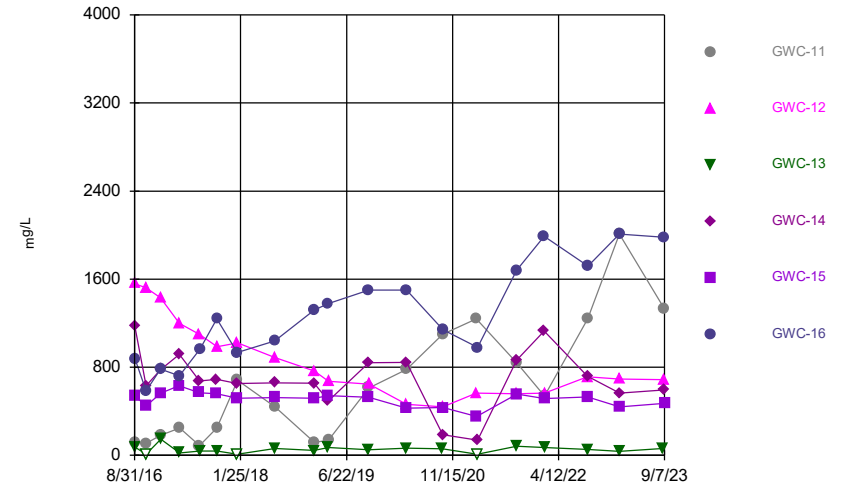
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

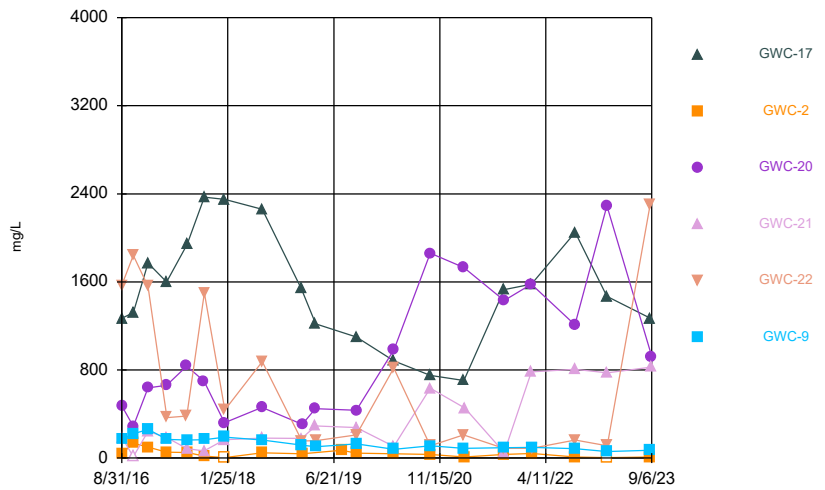
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

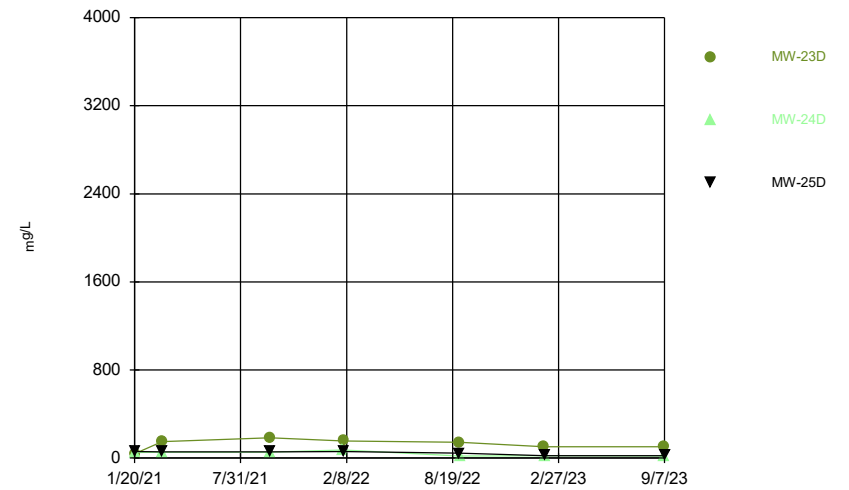
Hollow symbols indicate censored values.

Time Series



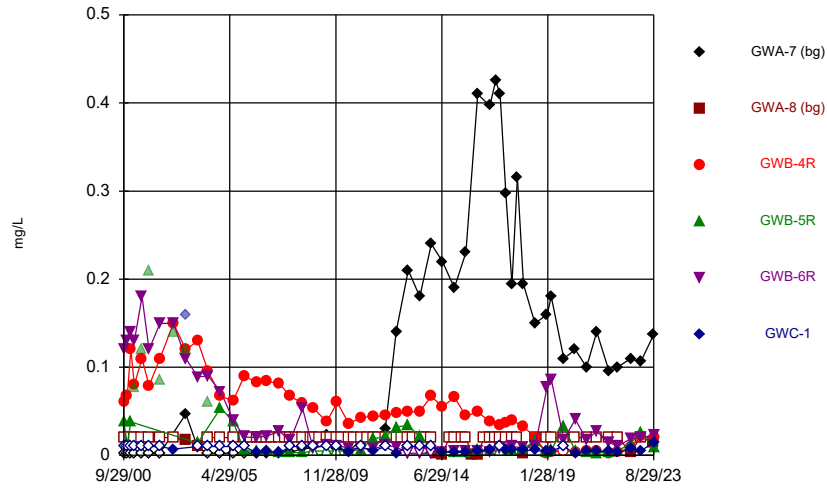
Constituent: Total Dissolved Solids Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



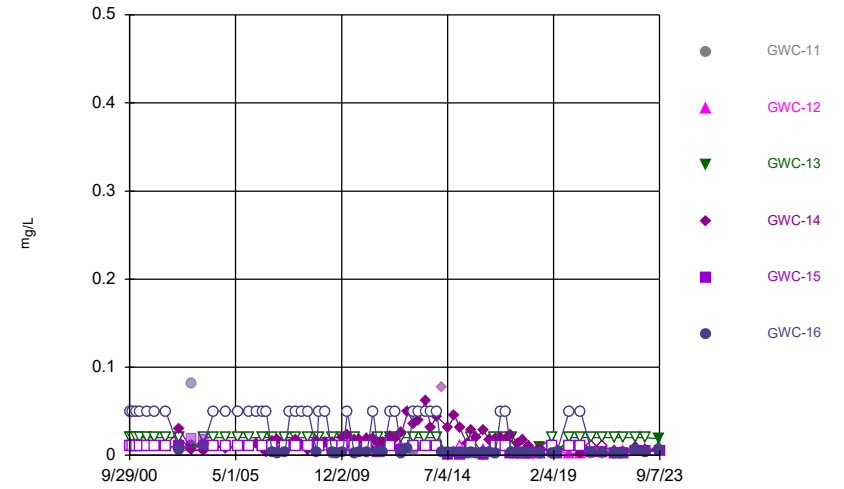
Constituent: Total Dissolved Solids Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



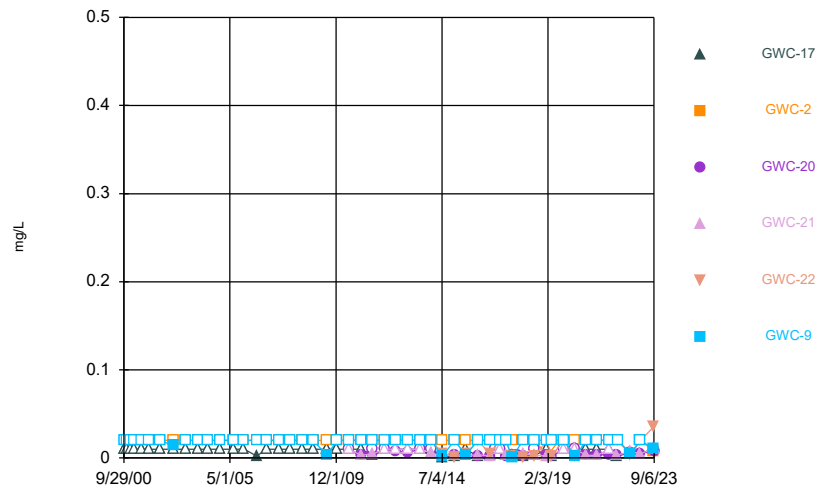
Constituent: Vanadium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



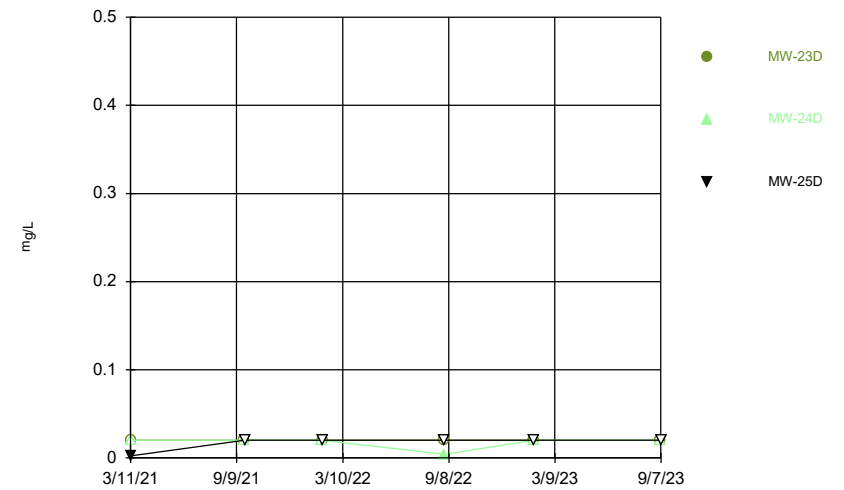
Constituent: Vanadium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



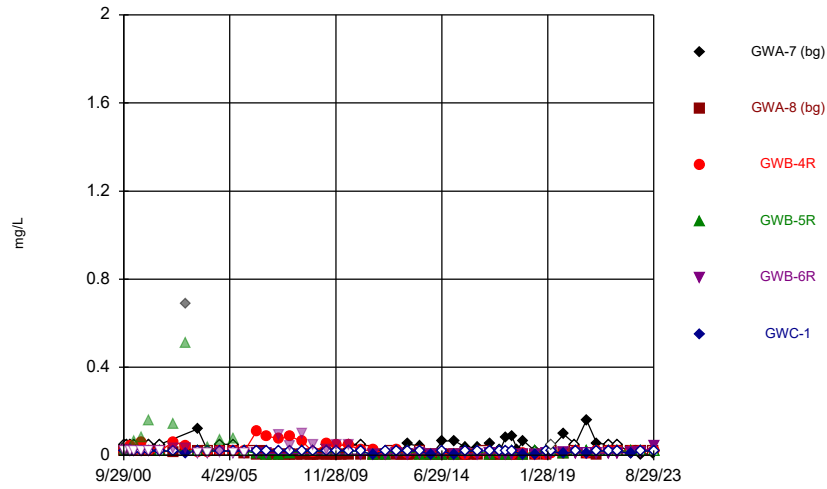
Constituent: Vanadium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



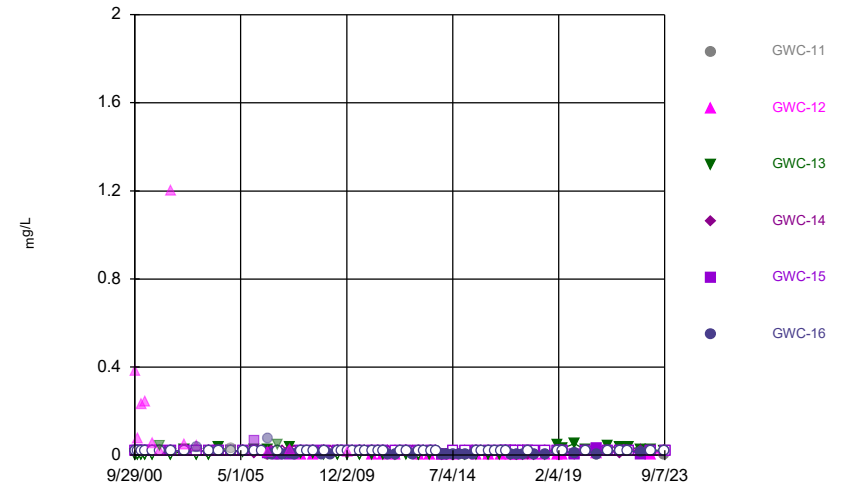
Constituent: Vanadium Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



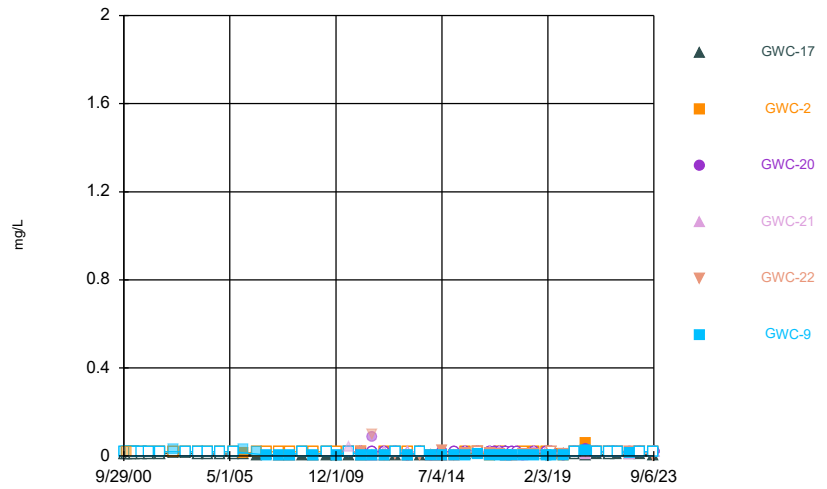
Constituent: Zinc Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



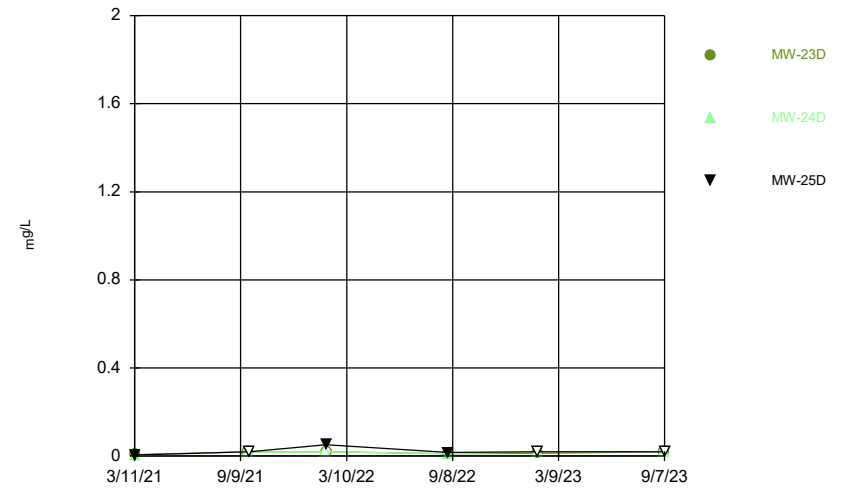
Constituent: Zinc Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 11/17/2023 3:38 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series



Constituent: Zinc Analysis Run 11/17/2023 3:39 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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
8/28/2023	<0.003	<0.003				
8/29/2023			<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023			<0.003			
9/6/2023	<0.003	<0.003		<0.003		<0.003
9/7/2023					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.003	<0.003			<0.003	<0.003
9/6/2023			<0.003	<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.003	<0.003	
9/7/2023			<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:39 PM

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	<0.025	<0.005
11/21/2000	<0.025		<0.005	<0.005	<0.025	<0.005
1/20/2001	<0.025	<0.005	0.01	<0.005	0.014	<0.005
3/14/2001	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
7/16/2001	<0.025	<0.005	<0.005	0.014	<0.025	<0.005
11/1/2001	<0.025	<0.005	<0.005	0.023	<0.025	<0.005
4/25/2002	<0.025	<0.005	<0.005	<0.005	<0.025	<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	<0.025	<0.005	0.0058	<0.005	<0.025	<0.005
5/26/2004	<0.025	<0.005	0.0068	0.0074	0.0082	<0.005
12/7/2004	<0.025	<0.005	0.0066	0.017	0.0062	<0.005
6/21/2005	<0.025	<0.005	<0.005	0.013	<0.025	<0.005
12/12/2005	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
4/4/2006		<0.005				
6/27/2006	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
8/30/2006		<0.005				
12/4/2006	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
2/15/2007		<0.005				
6/23/2007	<0.025	<0.005	<0.005	<0.005	0.0053	<0.005
9/11/2007		<0.005				
12/11/2007	<0.025	<0.005	<0.005	<0.005	0.0057	<0.005
3/11/2008		<0.005				
6/23/2008	<0.025	<0.005				
6/24/2008			0.005	<0.005	0.012	<0.005
11/3/2008		<0.005				
12/4/2008	<0.025	<0.005				
12/5/2008			<0.005	<0.005	0.0064	<0.005
3/25/2009		<0.005				
7/7/2009	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
9/14/2009		<0.005				
12/20/2009	<0.025	<0.005				<0.005
12/21/2009			<0.005	<0.005	<0.025	
3/4/2010		<0.005				
6/20/2010	<0.025	<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	<0.025	<0.005	<0.005		<0.025	
4/15/2011		<0.005				
7/7/2011	<0.025	<0.005		<0.005	<0.025	<0.005
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.025	<0.005		<0.005		0.0071
1/18/2012			<0.005		<0.025	
4/4/2012		<0.005				
7/9/2012	0.0052			<0.005		0.0076
7/10/2012		<0.005	0.0052		<0.025	
10/9/2012		<0.005				
1/17/2013				<0.005		0.0086
1/18/2013	0.0087	<0.005	<0.005		<0.025	
4/5/2013		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:39 PM
 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		<0.025	
10/11/2013		<0.005				
1/13/2014	0.009			<0.005		<0.005
1/14/2014		<0.005	<0.005		<0.025	
4/3/2014		<0.005				
7/9/2014	0.008	<0.005	0.0023 (J)	<0.005	<0.025	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			<0.025	
5/10/2015		<0.005				
7/16/2015	0.0077		<0.005	<0.005		0.0037 (J)
7/17/2015		<0.005			<0.025	
10/6/2015		<0.005				
1/17/2016						0.024 (O)
1/18/2016	0.014	<0.005	<0.005	<0.005	<0.025	
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	<0.025	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	<0.025	
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	<0.025		0.00095 (J)			
1/16/2019	<0.025	<0.005	0.0024 (J)	0.0011 (J)	<0.025	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 11/17/2023 3:39 PM
 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	<0.025	0.00045 (J)				
4/7/2020			0.0027 (J)	0.0011 (J)	<0.025	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	<0.025	<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	<0.025	<0.005	0.0027 (J)	<0.005	0.0054	
9/23/2021						0.0048 (J)
1/31/2022	<0.025	<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)
8/28/2023	0.0039 (J)	<0.005				
8/29/2023			0.0057	0.00239 (J)	0.00724	0.00668

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:39 PM

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	<0.01	0.094
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.01	0.059
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.087
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.075
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.11
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.01	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 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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	
8/29/2023			<0.005			
9/6/2023	0.00254 (J)	<0.005		0.00244 (J)		0.12
9/7/2023					0.287	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.005	<0.005			0.00216 (J)	<0.005
9/6/2023			0.258	0.0323		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.005	<0.005	
9/7/2023			<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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
8/28/2023	0.177	0.0483				
8/29/2023			0.16	0.0643	0.0196	0.0637

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023			0.0712			
9/6/2023	0.192	0.0273		0.0833		0.143
9/7/2023					0.0573	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023	0.0295	0.0452			0.127	0.138
9/6/2023			0.178	0.232		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	0.0732	0.034	
9/7/2023			0.029

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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
8/28/2023	<0.0005	<0.0005				
8/29/2023			<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023			<0.0005			
9/6/2023	<0.0005	0.000521		<0.0005		<0.0005
9/7/2023					<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	0.00174	<0.0005			<0.0005	<0.0005
9/6/2023			<0.0005	<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.0005	<0.0005	
9/7/2023			<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2023 3:39 PM
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
8/28/2023	7.01	0.194				
8/29/2023			4.35	3.69	5.92	0.653

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2023 3:39 PM
 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	
8/29/2023			0.296			
9/6/2023	4.44	9.02		0.0433		20.4
9/7/2023					0.747	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	1.77	0.0163			9.28	0.016
9/6/2023			11.3	5.6		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	0.0276	0.0168	
9/7/2023			0.015 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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
8/28/2023	<0.001	<0.001				
8/29/2023			0.000304 (J)	<0.001	<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023			<0.001			
9/6/2023	0.000563 (J)	<0.001		<0.001		<0.001
9/7/2023					<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.001	<0.001			<0.001	<0.001
9/6/2023			0.000823 (J)	<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.001	<0.001	
9/7/2023			<0.001

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
8/28/2023	3.72	13.6				
8/29/2023			133	46.8	120	53.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			3.64			
9/6/2023	160	77.4		145		311
9/7/2023					142	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM

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	
8/29/2023	86.5	0.165 (J)			147	4.38
9/6/2023			151	142		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	8.49	2.96	
9/7/2023			3.17

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2023 3:39 PM

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
8/28/2023	91.9	10.1				
8/29/2023			66	61.8	53.2	7.48

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			7.34			
9/6/2023	98	74.1		22.7		45.9
9/7/2023					4.46	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM

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	
8/29/2023	476	4.97			521	21.1
9/6/2023			12.2	24.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	7.65	5.82	
9/7/2023			6.19

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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
8/28/2023	0.0139	<0.01				
8/29/2023			0.00389 (J)	<0.01	0.00349 (J)	0.00337 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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	
8/29/2023			<0.01			
9/6/2023	<0.01	<0.01		<0.01		<0.01
9/7/2023					<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.01	<0.01			<0.01	<0.01
9/6/2023			<0.01	<0.01		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:39 PM
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
9/6/2023	<0.01	<0.01	
9/7/2023			<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2023 3:39 PM

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	<0.001	<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	<0.001	<0.005	<0.005	<0.005	<0.001
3/14/2001	<0.025	<0.001	<0.005	<0.005	<0.005	<0.001
7/16/2001	<0.025	<0.001	<0.005	<0.005	<0.005	<0.001
11/1/2001	<0.025	<0.001	<0.005	0.012	<0.005	<0.001
4/25/2002	<0.025	<0.001	<0.005	<0.005	<0.005	<0.001
8/30/2016		<0.001		<0.005	<0.005	<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)	<0.005	<0.005	
1/3/2017		<0.001		<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		<0.001				
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		<0.001				
8/19/2020	0.0021 (J)		0.00072 (J)	<0.005	<0.005	<0.001
9/28/2020	<0.025	<0.001				<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	<0.001	<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 11/17/2023 3:39 PM
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
8/28/2023	0.00156	<0.001				
8/29/2023			0.0122	0.00139	0.0709	<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023			<0.001			
9/6/2023	0.000794 (J)	0.000732 (J)		<0.001		<0.001
9/7/2023					<0.001	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023	0.00268	<0.001			0.000817 (J)	0.000744 (J)
9/6/2023			<0.001	<0.001		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.001	<0.001	
9/7/2023			<0.001

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2023 3:39 PM
 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
8/28/2023	1.69	1.84				
8/29/2023			3.86	1.63	8.19	2.65

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			2.36			
9/6/2023	9.23	2.02		0.609		3.42
9/7/2023					2.28	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023	2.77	2.49			11.3	1.44
9/6/2023			2.12	4.2		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2023 3:39 PM
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
9/6/2023	3.47	1.73	
9/7/2023			1.75

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2023 3:39 PM

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
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 11/17/2023 3:39 PM
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			<0.1			<0.1
8/28/2023	<0.1	0.0498 (J)				
8/29/2023			<0.1	<0.1	0.0523 (J)	0.0596 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2023 3:39 PM

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			<0.5
1/11/2018	<0.5	1.4				
7/9/2018				<0.1		
7/10/2018					0.15 (J)	<0.5
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	<0.5
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						<0.5
10/8/2019	<0.5		<0.1	<0.1	<0.1	<0.5
10/9/2019		<0.3				
4/7/2020	<0.5	0.27 (J)		<0.1	<0.1	<0.5
4/8/2020			<0.1			
8/17/2020		0.19	<0.1			
8/18/2020	<0.5			<0.1	<0.1	<0.5
9/28/2020			<0.1			
9/29/2020	<0.5	0.16		<0.1		
9/30/2020					<0.1	<0.5
3/10/2021	<0.5	0.14				
3/12/2021					<0.1	
3/15/2021			<0.1			
3/16/2021				<0.1		<0.5
9/21/2021	<0.5	0.31	<0.1			
9/22/2021				<0.1		<0.5
9/23/2021					<0.1	
2/1/2022						<0.5
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 11/17/2023 3:39 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/29/2023			<0.1			
9/6/2023	<0.5	0.238		<0.1		<0.5
9/7/2023					<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2023 3:39 PM

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		<0.2	<0.2		
10/25/2016			<0.2	<0.2		
10/26/2016	0.68	0.62			0.12 (J)	
10/27/2016						0.26 (J)
1/4/2017			0.04 (J)	<0.2	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)	<0.2		
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)		<0.2		
10/2/2017			<0.2			
10/3/2017		0.06 (J)		<0.2		
10/4/2017	1.8				0.12 (J)	0.22 (J)
1/9/2018				<0.2		
1/10/2018		<0.1	<0.2			
1/11/2018	1.5				<0.1	0.98
7/9/2018			<0.2			
7/10/2018		<0.1		<0.2		
7/11/2018	1.8				<0.1	0.14 (J)
1/16/2019	1.4					
1/17/2019				<0.2		
1/18/2019					<0.1	0.24 (J)
1/21/2019		<0.1	<0.2			
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		<0.2	<0.2		0.088 (J)
10/8/2019				<0.2		
10/9/2019	<0.3	<0.1	<0.2		<0.1	0.068 (J)
4/7/2020				<0.2	<0.1	
4/8/2020	0.55	<0.1	<0.2			0.058 (J)
8/18/2020	0.51	<0.1	<0.2	<0.2	<0.1	
8/19/2020						0.092 (J)
9/29/2020		<0.1				
9/30/2020	0.15		<0.2	<0.2	<0.1	
10/1/2020						<0.1
3/10/2021					<0.1	0.066 (J)
3/11/2021	0.42					
3/12/2021			<0.2			
3/15/2021		<0.1				
3/16/2021				<0.2		
9/21/2021					<0.1	
9/22/2021	0.79	<0.1	<0.2	<0.2		0.13
2/1/2022	0.68		<0.2	<0.2		
2/2/2022		<0.1				<0.1
2/3/2022					<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2023 3:39 PM
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			<0.2	<0.2		
8/31/2022	0.442				<0.1	
9/1/2022		<0.1				0.0783 (J)
2/1/2023	0.604		<0.2			0.0994 (J)
2/2/2023		<0.1		<0.2	<0.1	
8/29/2023	0.572	<0.1			0.0758 (J)	0.115
9/6/2023			<0.2	<0.2		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	0.13	0.147	
9/7/2023			0.198

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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
8/28/2023	0.0017 (J)	0.000566 (J)				
8/29/2023			<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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	
8/29/2023			<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002
9/7/2023					<0.002	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.002	<0.002			0.000511 (J)	<0.002
9/6/2023			<0.002	<0.002		

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.002	<0.002	
9/7/2023			<0.002

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
1/31/2023	<0.03	<0.03				
2/1/2023				<0.03	<0.03	
2/2/2023			0.0184			<0.03
8/28/2023	<0.03	<0.03				
8/29/2023			0.0191	<0.03	<0.03	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
2/1/2023	<0.03	<0.03	<0.03			<0.03
2/2/2023				<0.03	<0.03	
8/29/2023			<0.03			
9/6/2023	<0.03	<0.03		<0.03		<0.03
9/7/2023					<0.03	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
2/1/2023	0.00532 (J)		<0.03			<0.03
2/2/2023		<0.03		<0.03	<0.03	
8/29/2023	0.00502 (J)	<0.03			<0.03	<0.03
9/6/2023			<0.03	<0.03		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
2/1/2023	<0.03		
2/2/2023		<0.03	<0.03
9/6/2023	<0.03	<0.03	
9/7/2023			<0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2023 3:39 PM

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
8/28/2023	<0.0002	<0.0002				
8/29/2023			<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			<0.0002			
9/6/2023	<0.0002	<0.0002		<0.0002		<0.0002
9/7/2023					<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023	<0.0002	<0.0002			<0.0002	<0.0002
9/6/2023			<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.0002	<0.0002	
9/7/2023			<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2023 3:39 PM
 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
8/28/2023	0.000543 (J)	<0.001				
8/29/2023			0.136	<0.001	0.000729 (J)	0.0293

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			<0.001			
9/6/2023	0.000804 (J)	<0.001		0.0199		0.0886
9/7/2023					0.0588	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2023 3:39 PM
 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)	
8/29/2023	0.00312	<0.001			<0.001	<0.001
9/6/2023			0.753	0.0458		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2023 3:39 PM
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
9/6/2023	<0.001	0.000882 (J)	
9/7/2023			<0.001

Time Series

Constituent: pH (SU) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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
8/28/2023	5.94	4.62				
8/29/2023			5.82	5.17	5.33	5.68

Time Series

Constituent: pH (SU) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/29/2023			4.89			
9/6/2023	5.05	4.35		6.19		5.16
9/7/2023					6.64	

Time Series

Constituent: pH (SU) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	4.66	4.68			4.55	4.56
9/6/2023			5.86	5.78		

Time Series

Constituent: pH (SU) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	5.92	5.64	
9/7/2023			6.09

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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)
8/28/2023	0.00544	<0.005				
8/29/2023			0.00261 (J)	<0.005	0.00204 (J)	0.00182 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023			<0.005			
9/6/2023	0.0036 (J)	<0.005		0.00516		0.00161 (J)
9/7/2023					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	<0.005	<0.005			<0.005	<0.005
9/6/2023			<0.005	0.00554		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.005	<0.005	
9/7/2023			<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2023 3:39 PM

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				
2/1/2023				190	842	
2/2/2023			337			35.3
8/28/2023	6.57	62.9				
8/29/2023			551	299	763	64.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2023 3:39 PM

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	
8/29/2023			47.5			
9/6/2023	827	437		185		1250
9/7/2023					46.8	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM

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	
8/29/2023	444	10.5			1010	15.7
9/6/2023			460	470		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	37.5	0.176 (J)	
9/7/2023			<0.4

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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
8/28/2023	<0.002	<0.002				
8/29/2023			<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023			<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002
9/7/2023					<0.002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
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	
8/29/2023	<0.002	<0.002			<0.002	<0.002
9/6/2023			<0.002	<0.002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2023 3:39 PM

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
9/6/2023	<0.002	<0.002	
9/7/2023			<0.002

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2023 3:39 PM
 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
8/28/2023	1450	138				
8/29/2023			1290	644	1320	272

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2023 3:39 PM
 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	
8/29/2023			62			
9/6/2023	1330	686		594		1980
9/7/2023					471	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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	
8/29/2023	1270	9 (J)			2300	70
9/6/2023			924	826		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2023 3:39 PM
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
9/6/2023	103	20	
9/7/2023			23

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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			<0.01		
1/3/2017		<0.02				
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 11/17/2023 3:39 PM
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)
8/28/2023	0.137	0.0148 (J)				
8/29/2023			0.0201	0.00917 (J)	0.0226	0.0146 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
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)	
8/29/2023			0.0188 (J)			
9/6/2023	0.00685 (J)	0.0101 (J)		0.00671 (J)		0.00631 (J)
9/7/2023					0.00462 (J)	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:39 PM
 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 11/17/2023 3:39 PM
 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	
8/29/2023	0.0108 (J)	0.00777 (J)			0.0353	0.0103 (J)
9/6/2023			0.00768 (J)	0.0101 (J)		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:39 PM
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
9/6/2023	<0.02	<0.02	
9/7/2023			<0.02

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM

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 11/17/2023 3:39 PM
 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)			

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM

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
8/28/2023	0.00851 (J)	<0.02				
8/29/2023			<0.02	<0.02	0.0406	<0.02

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM

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	<0.02	<0.0025	<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	<0.0025	<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	<0.02	<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	<0.02	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	<0.0025			
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			

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM
 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				

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM
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)
2/1/2023	<0.02	0.00334 (J)	0.025			<0.02
2/2/2023				<0.02	<0.02	
8/29/2023			0.0194 (J)			
9/6/2023	0.00479 (J)	<0.02		<0.02		<0.02
9/7/2023					<0.02	

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM

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)

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Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:39 PM
 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	
8/29/2023	0.00535 (J)	<0.02			0.0054 (J)	<0.02
9/6/2023			<0.02	<0.02		

Time Series

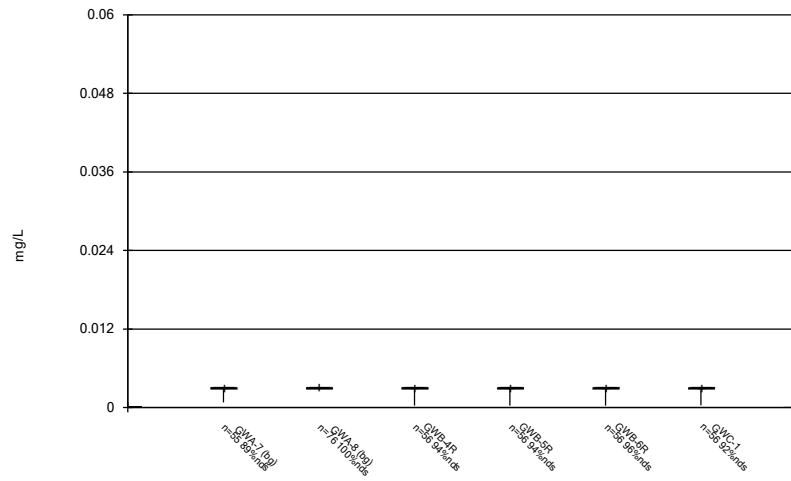
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	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)	
2/1/2023	0.0121 (J)		
2/2/2023		<0.02	<0.02
9/6/2023	<0.02	<0.02	
9/7/2023			<0.02

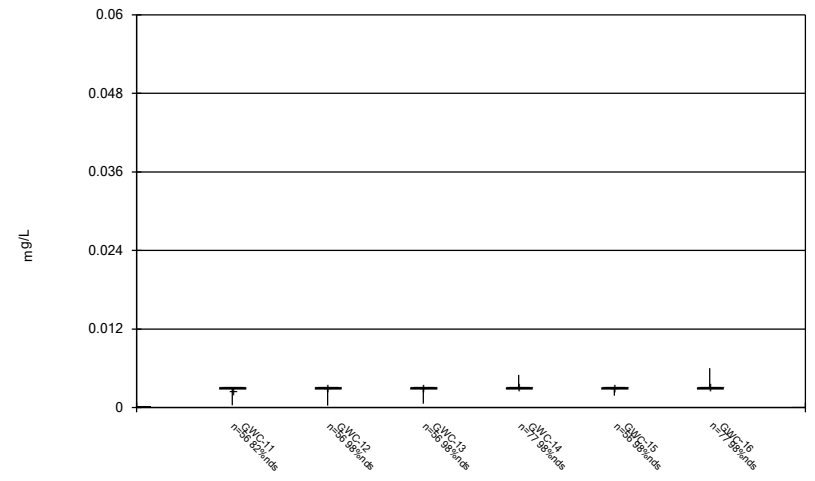
FIGURE B.

Box & Whiskers Plot



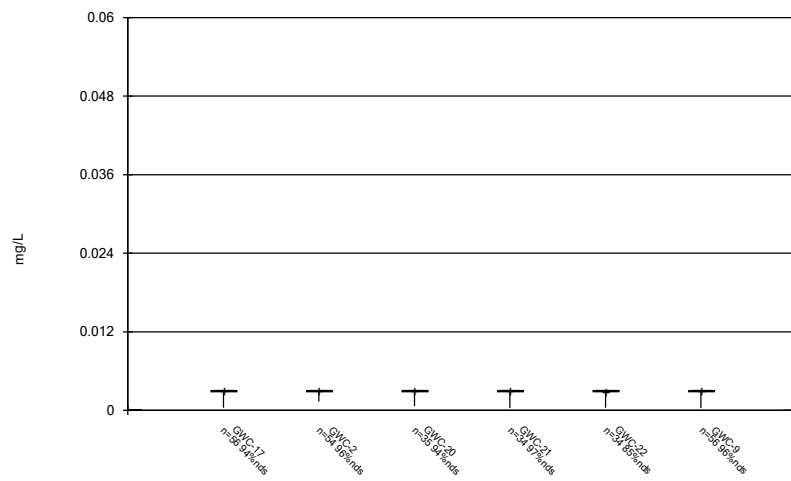
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



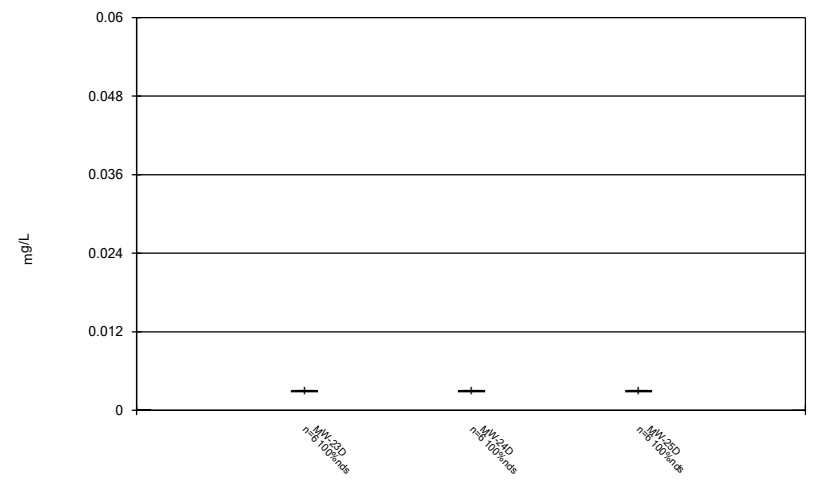
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



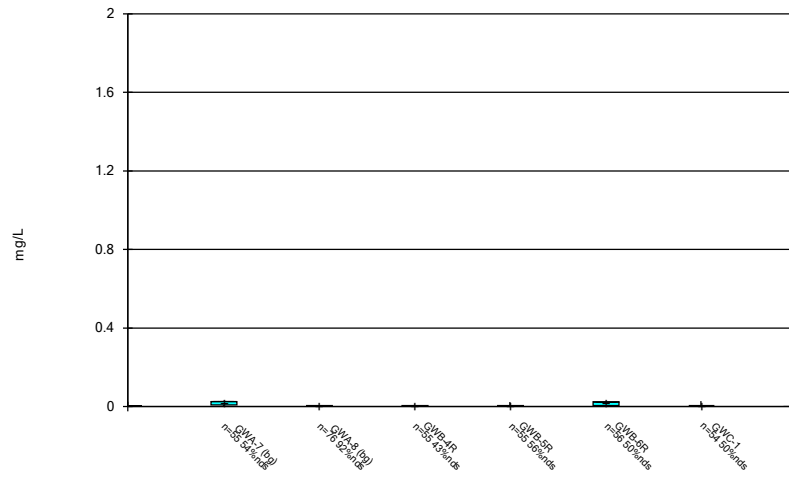
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



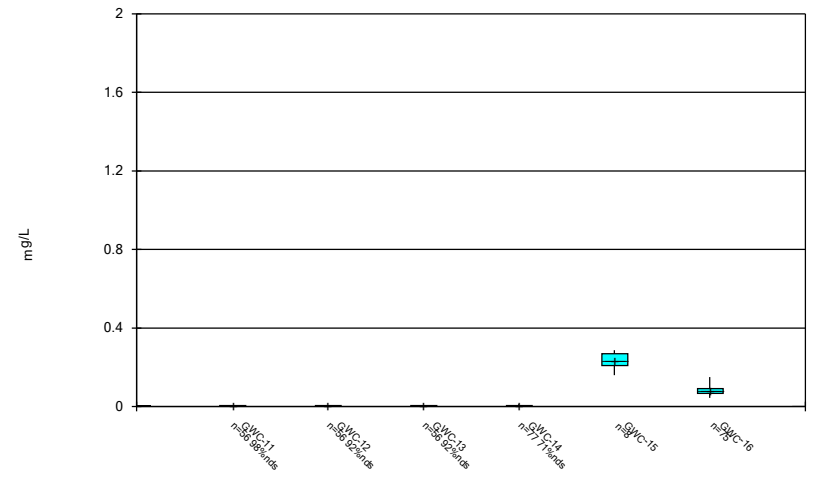
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



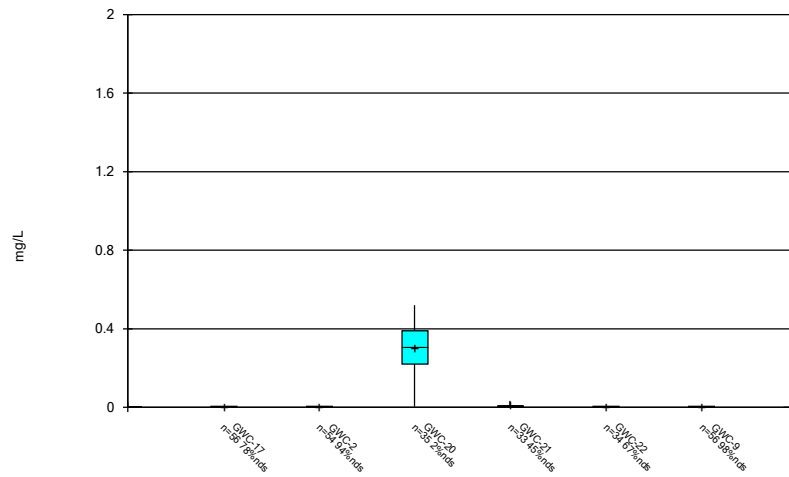
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



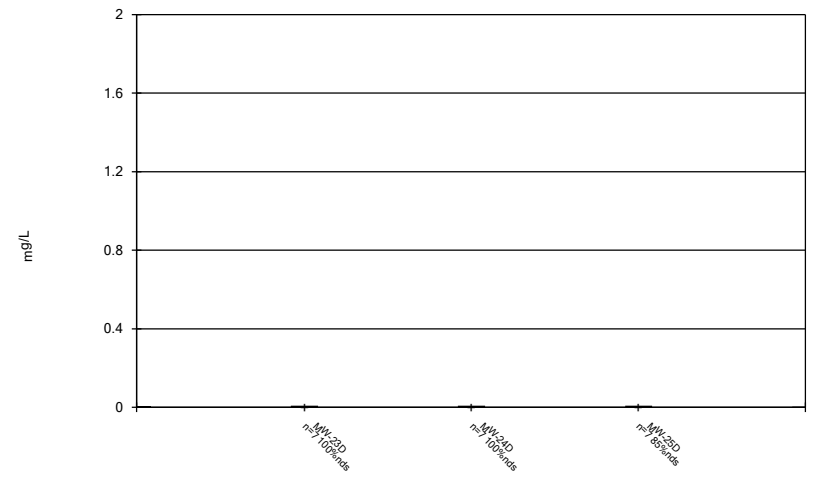
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Box & Whiskers Plot



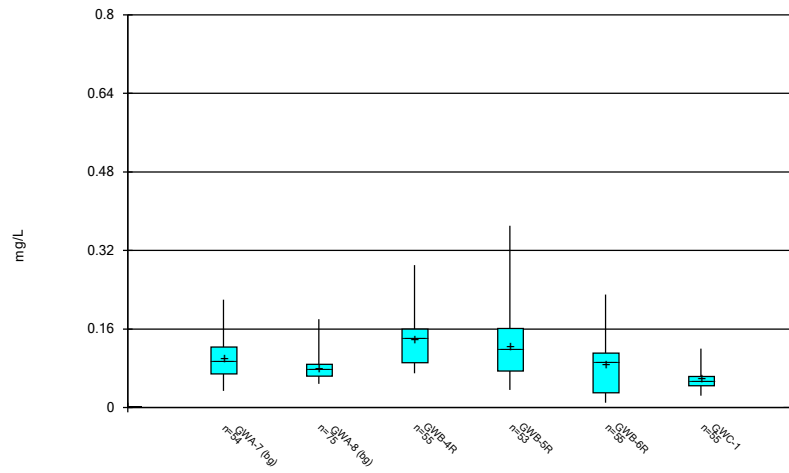
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Box & Whiskers Plot



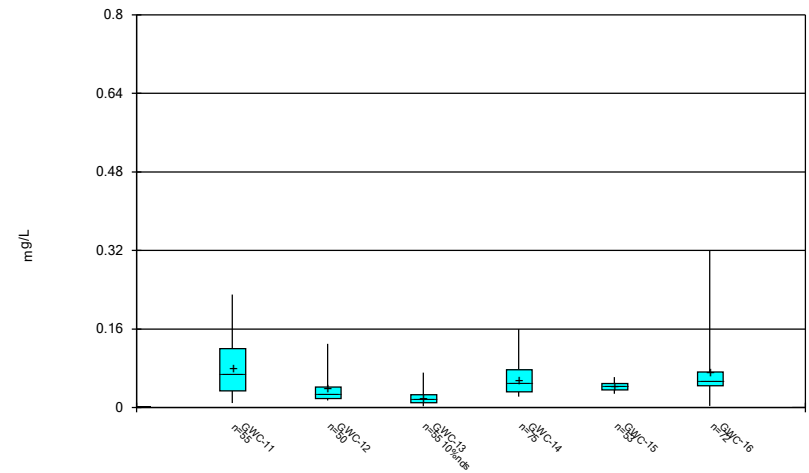
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Box & Whiskers Plot



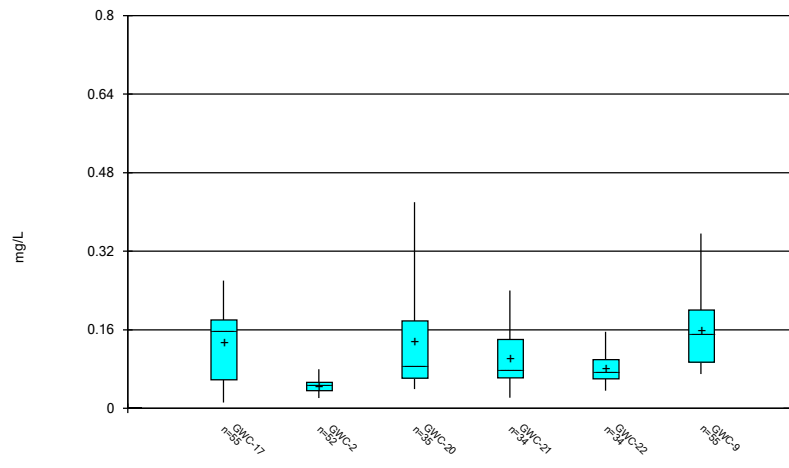
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Box & Whiskers Plot



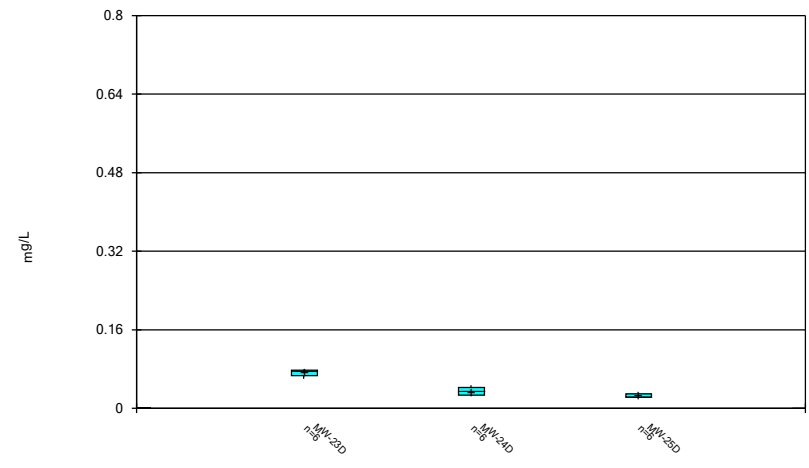
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Box & Whiskers Plot



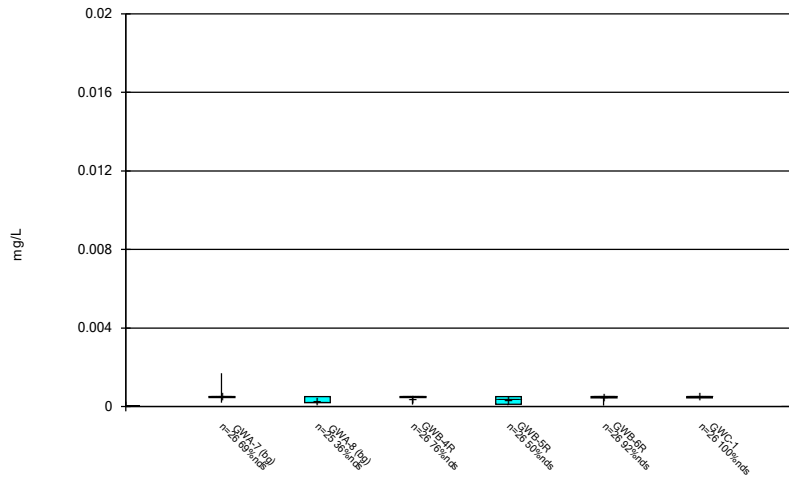
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



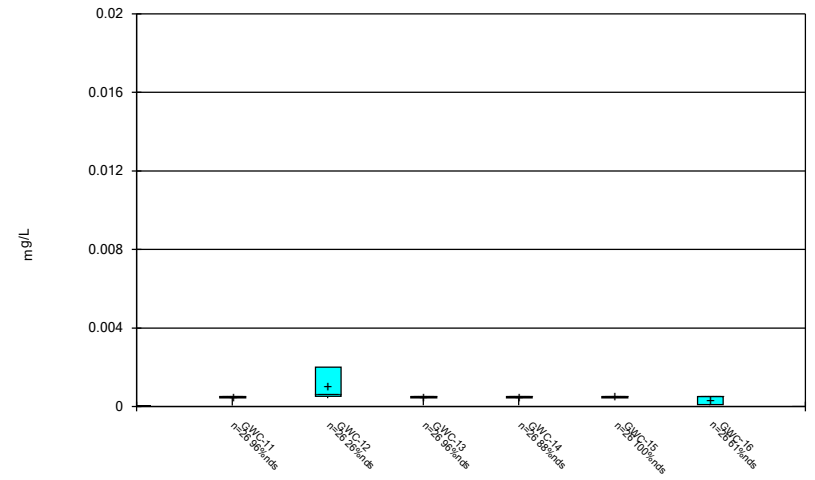
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



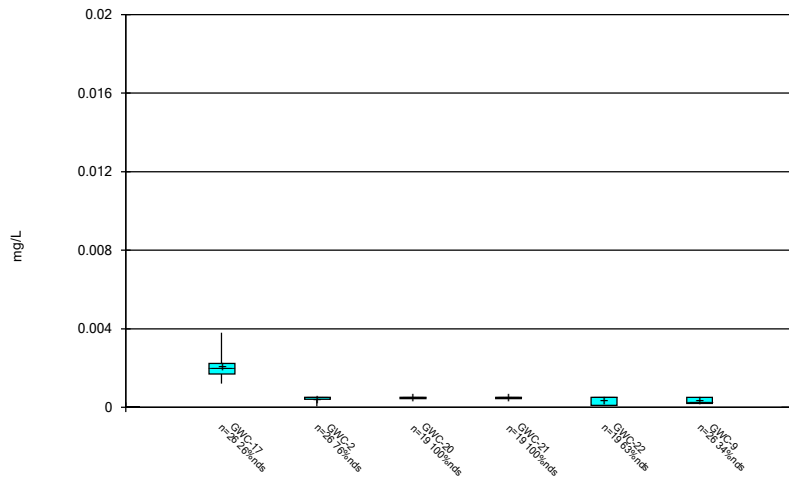
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Box & Whiskers Plot



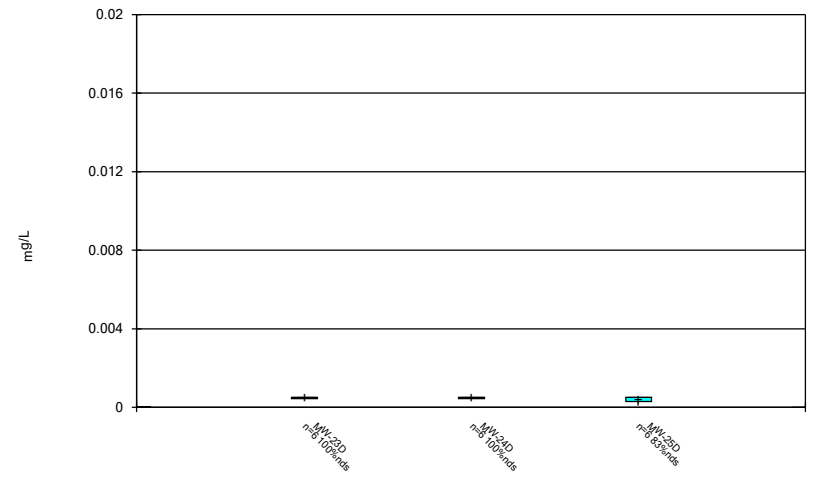
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Box & Whiskers Plot



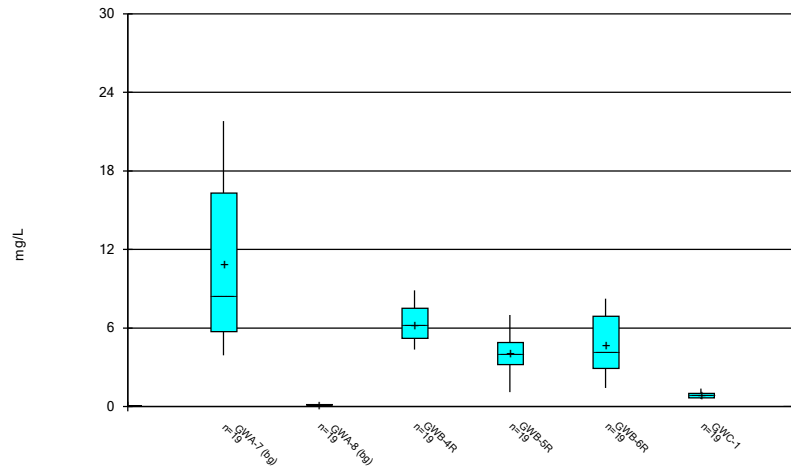
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



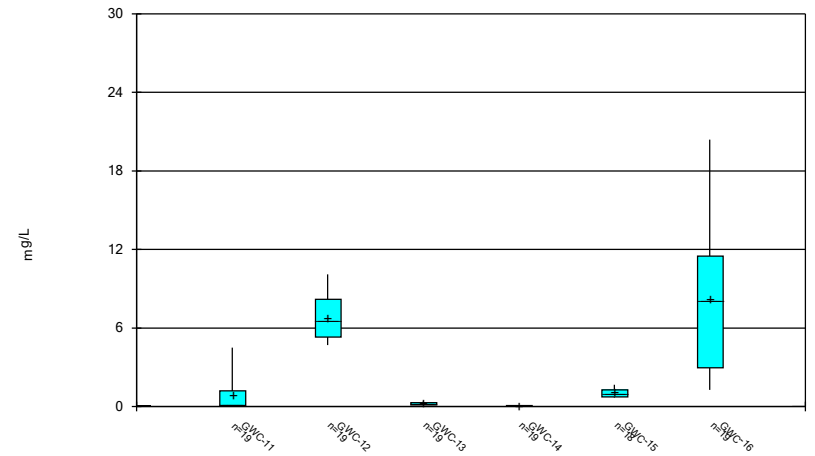
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



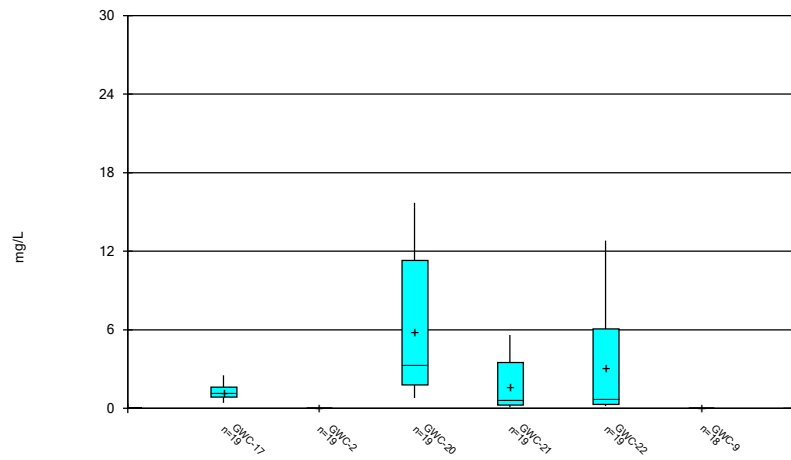
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Box & Whiskers Plot



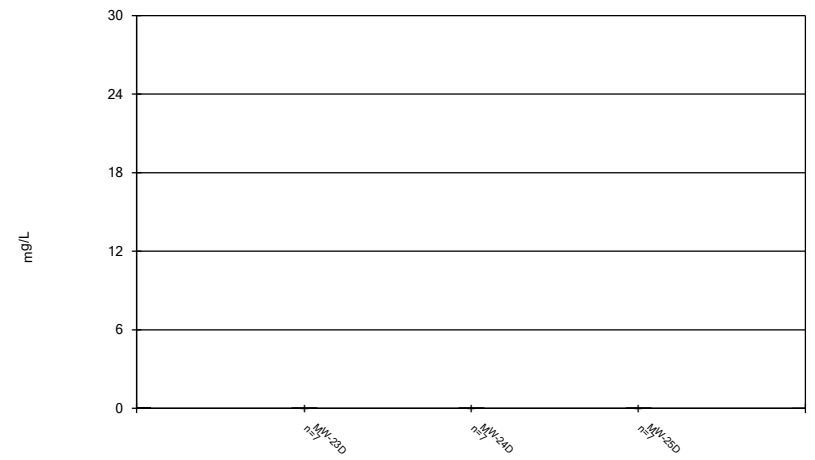
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Box & Whiskers Plot



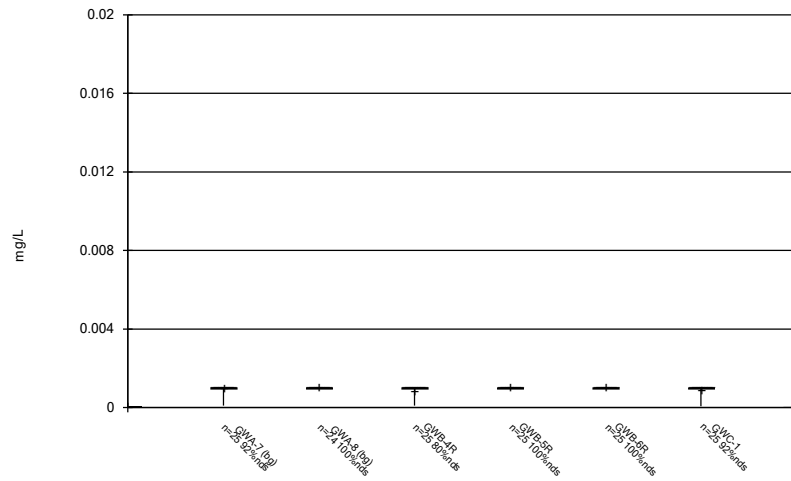
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Box & Whiskers Plot



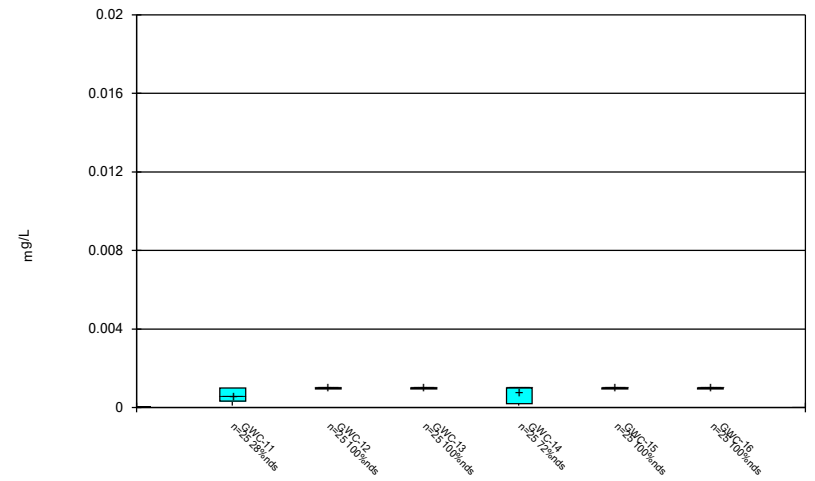
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Box & Whiskers Plot



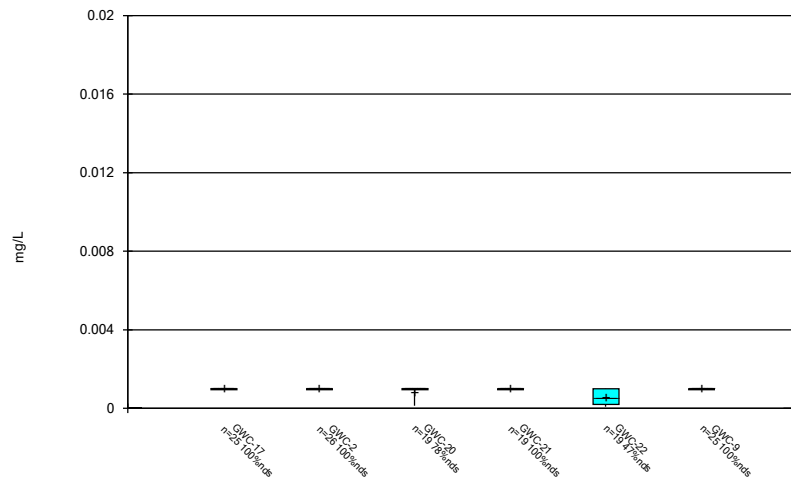
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Box & Whiskers Plot



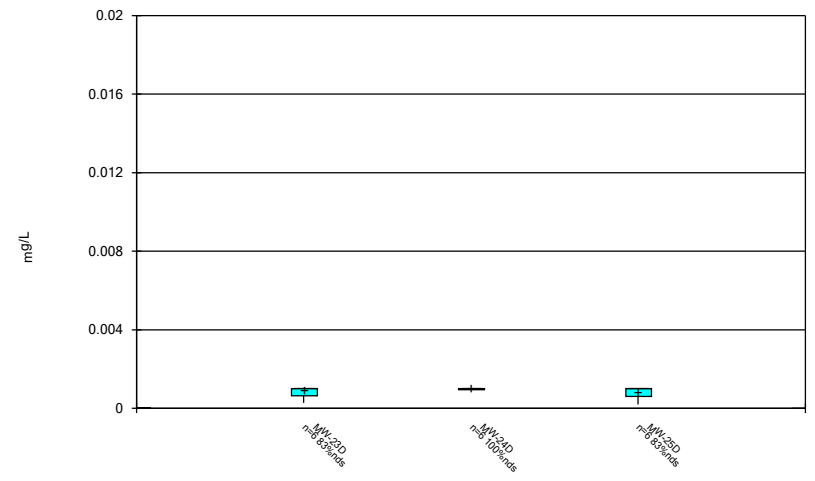
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Box & Whiskers Plot



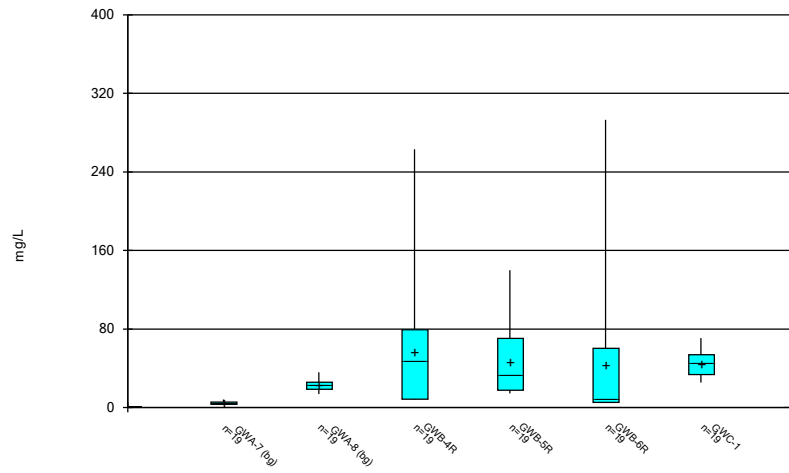
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Box & Whiskers Plot



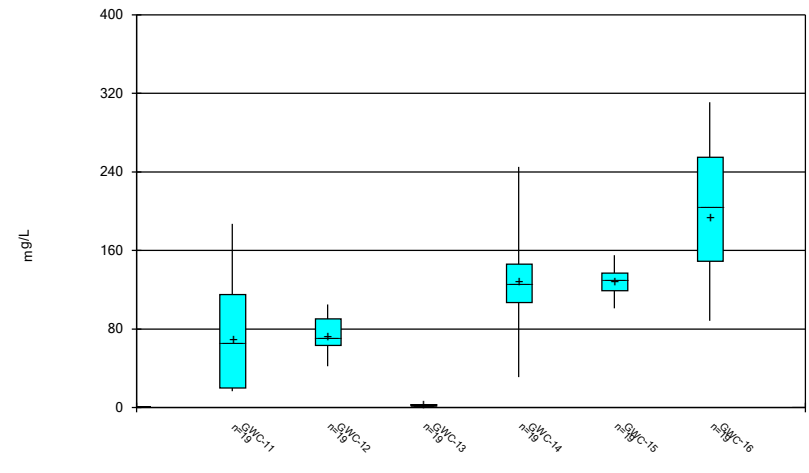
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Box & Whiskers Plot



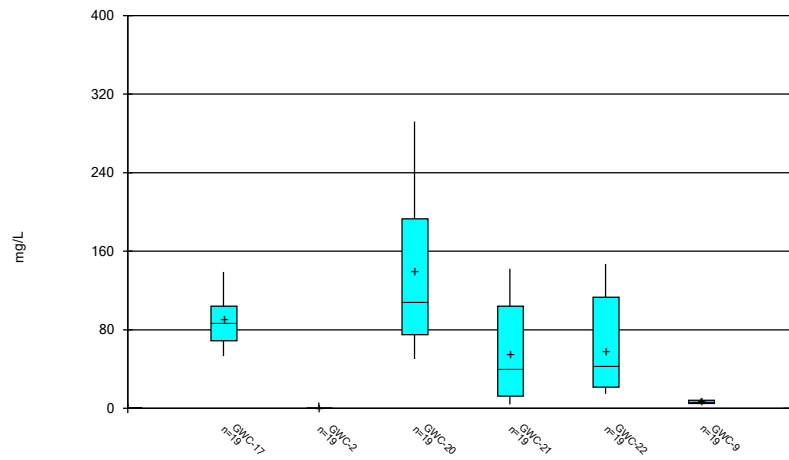
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Box & Whiskers Plot



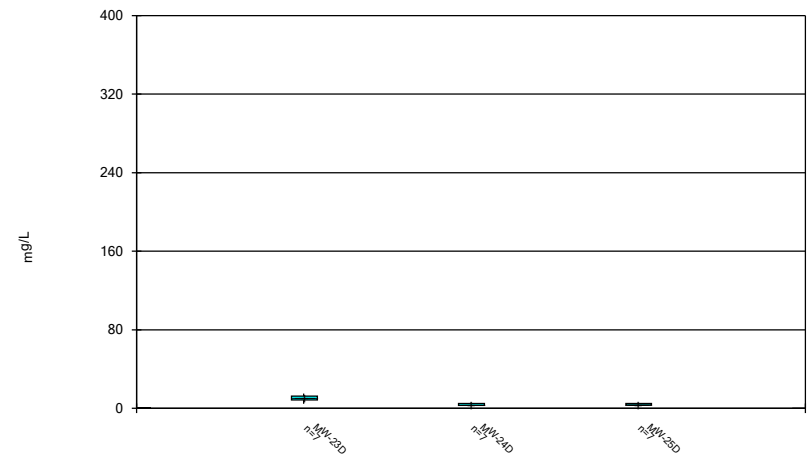
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Box & Whiskers Plot



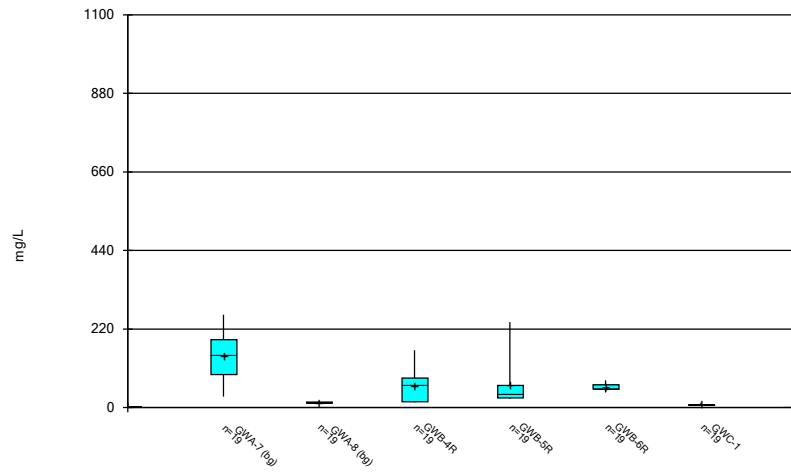
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Box & Whiskers Plot



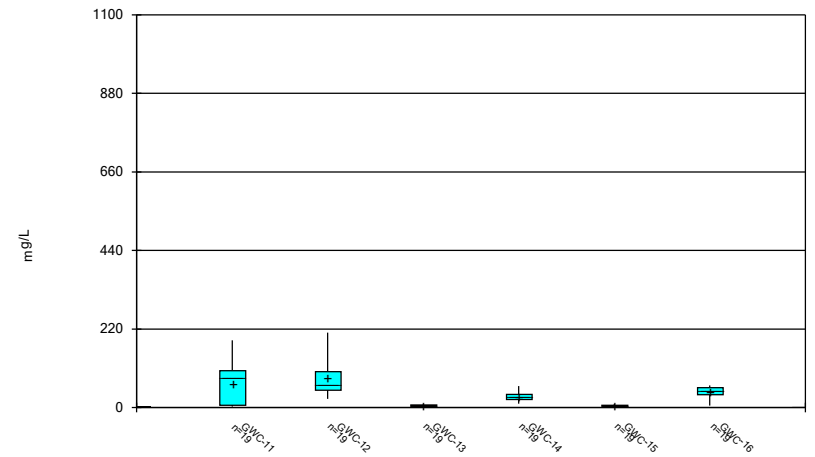
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Box & Whiskers Plot



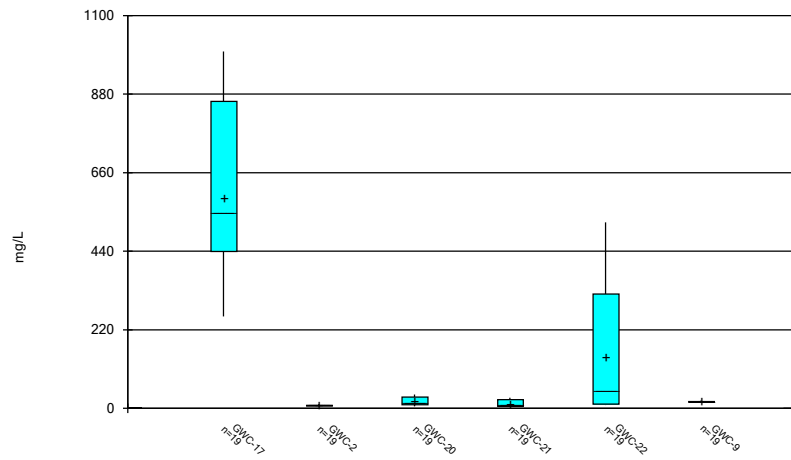
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



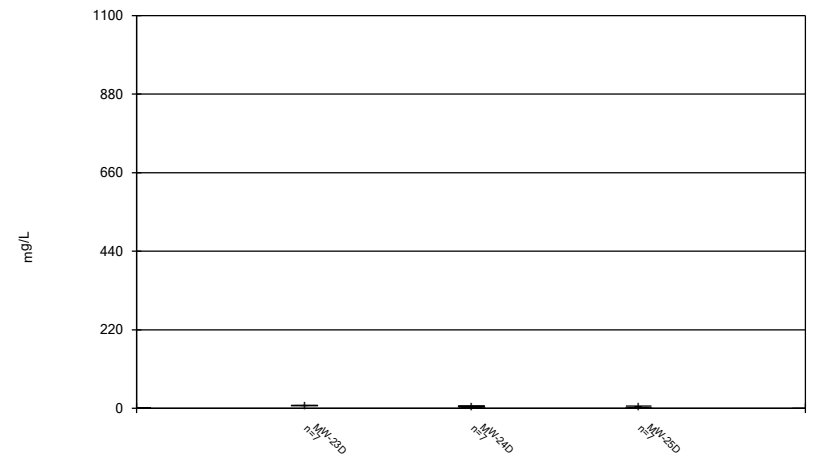
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Box & Whiskers Plot



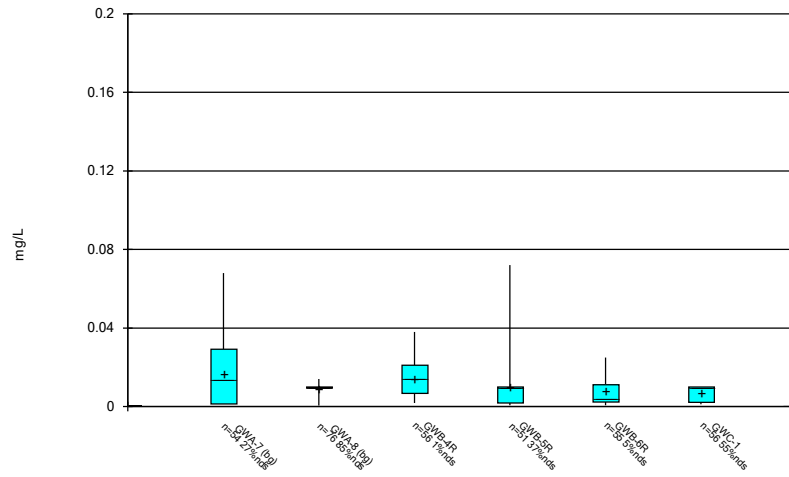
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



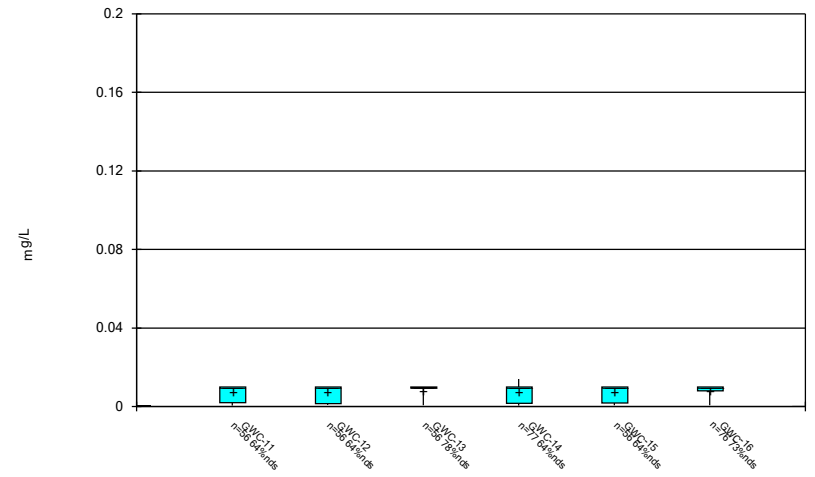
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Box & Whiskers Plot



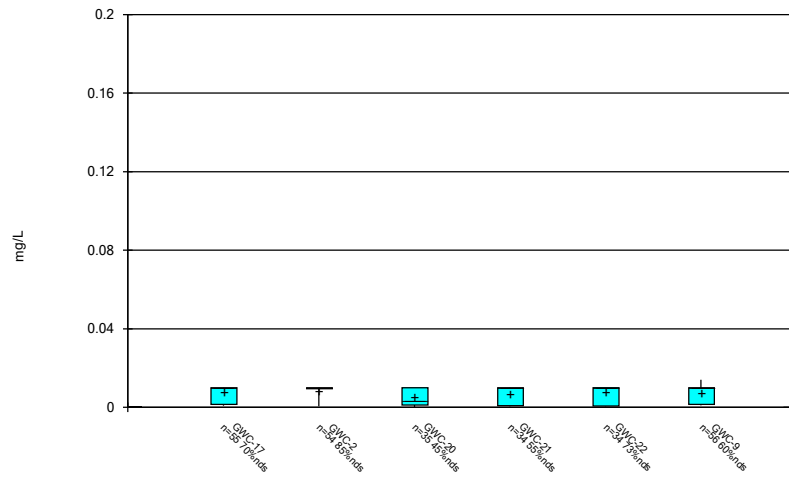
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



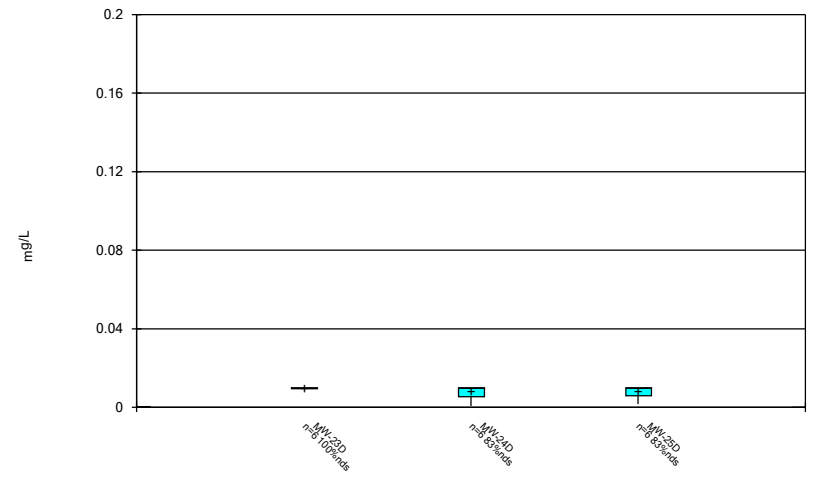
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



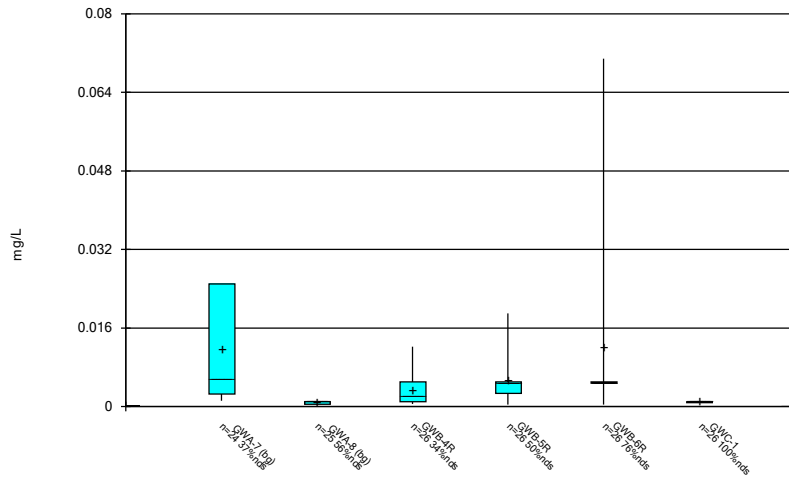
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Box & Whiskers Plot



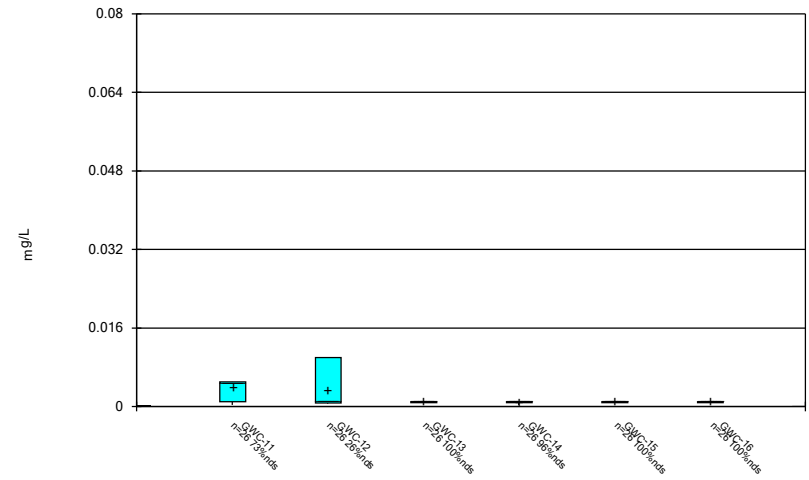
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Box & Whiskers Plot



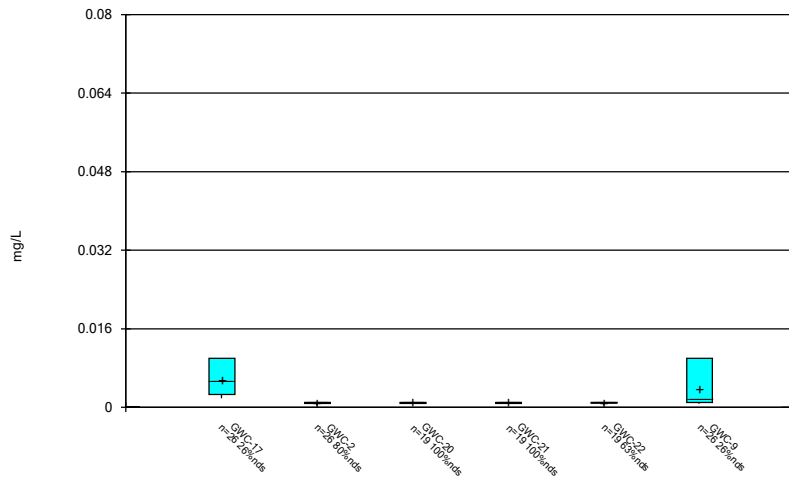
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Box & Whiskers Plot



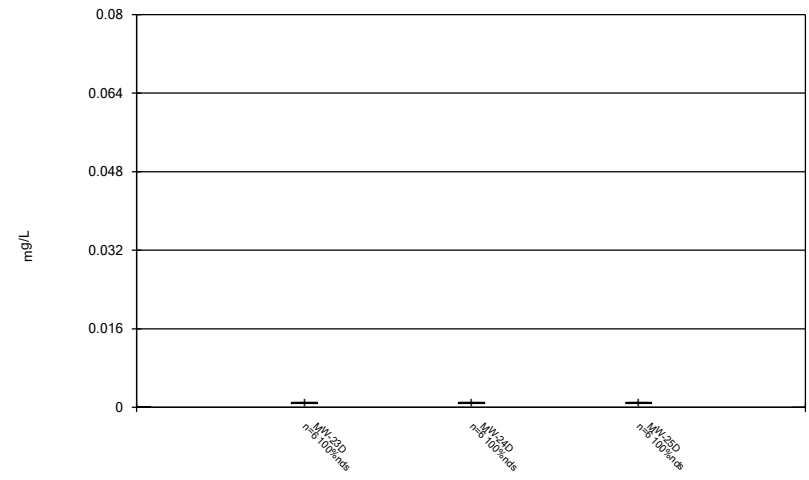
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Box & Whiskers Plot



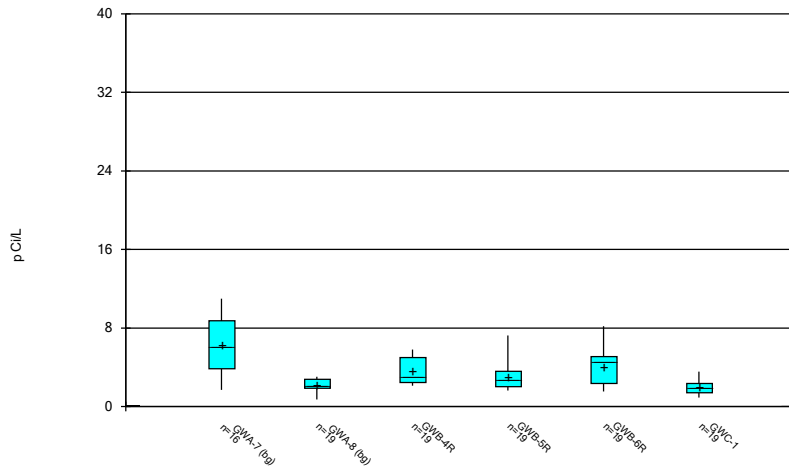
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Box & Whiskers Plot



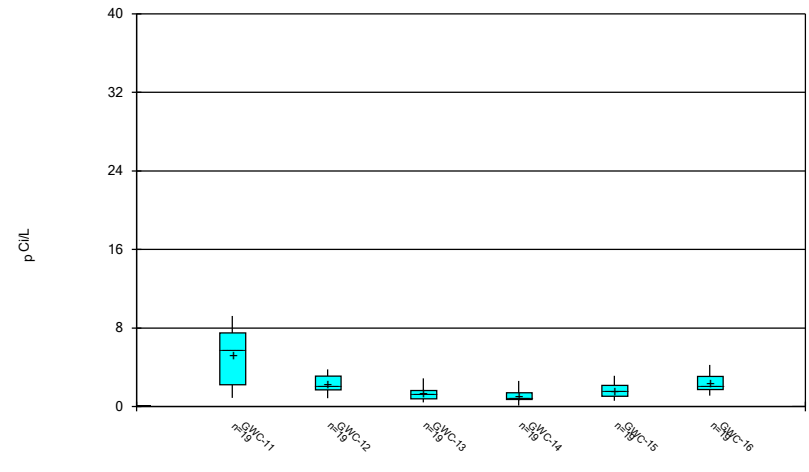
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Box & Whiskers Plot



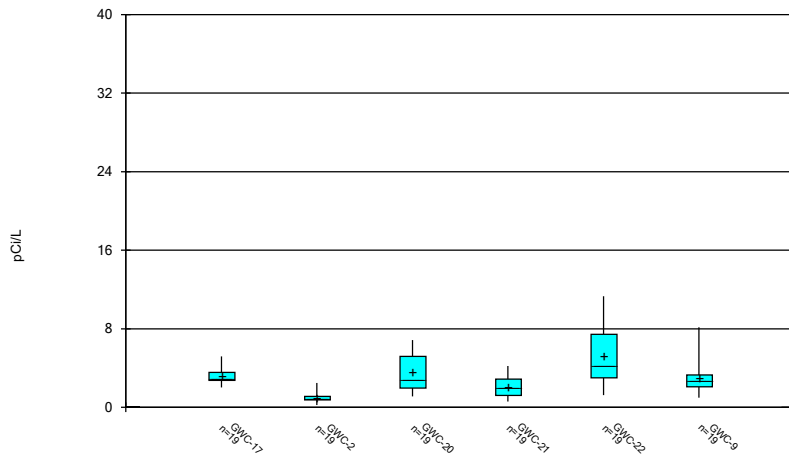
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



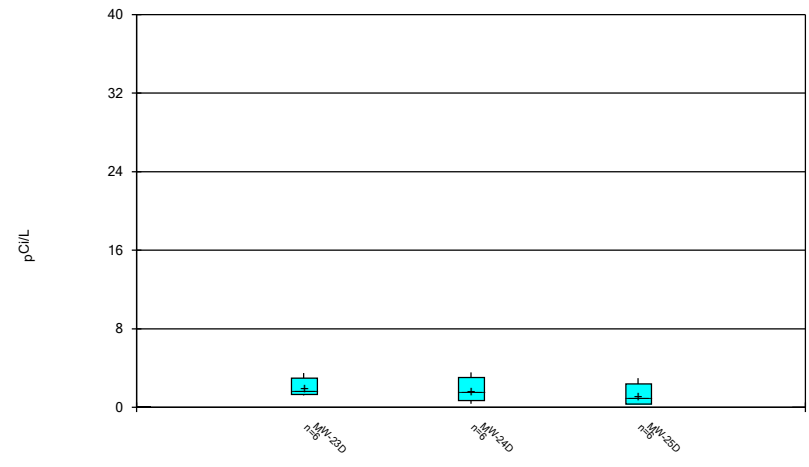
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



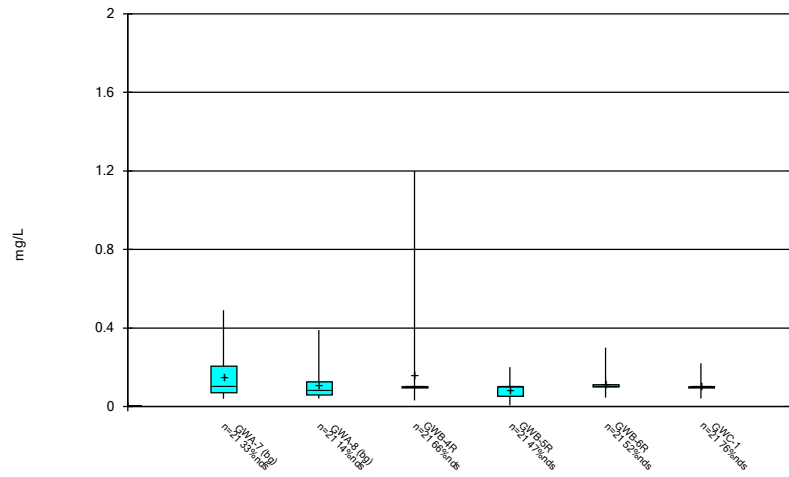
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



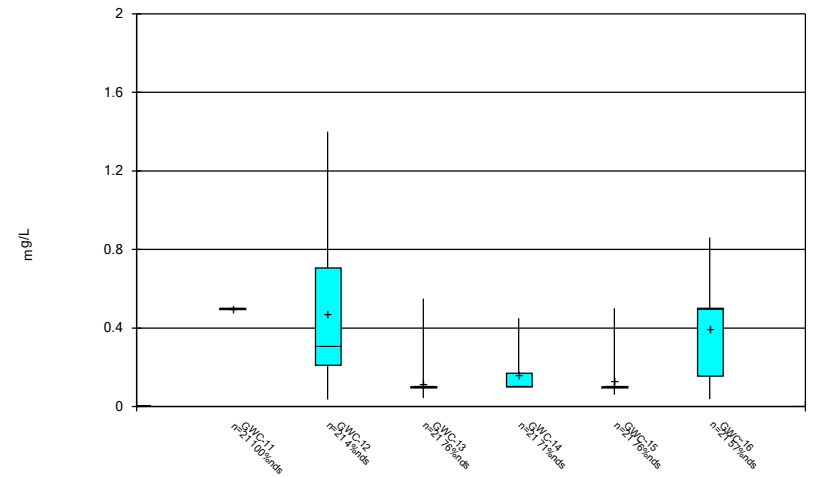
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



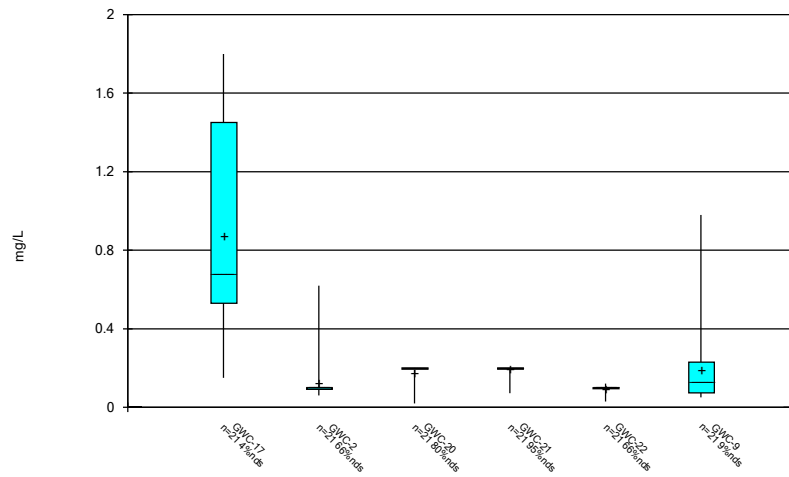
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



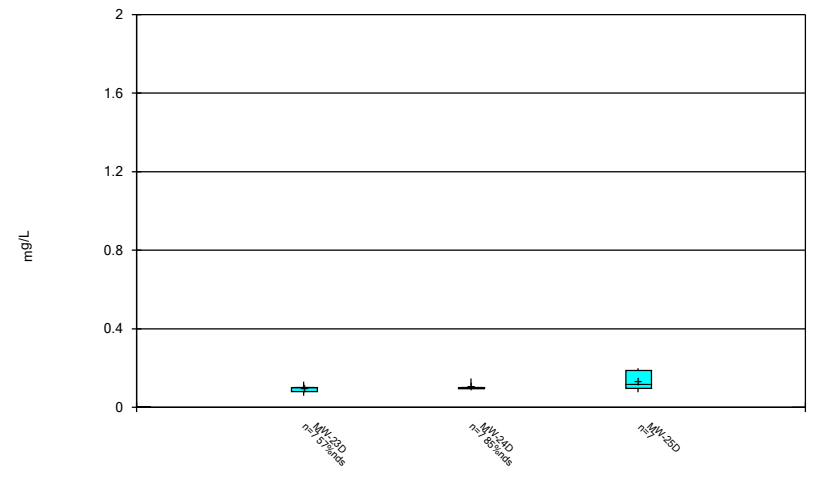
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Box & Whiskers Plot



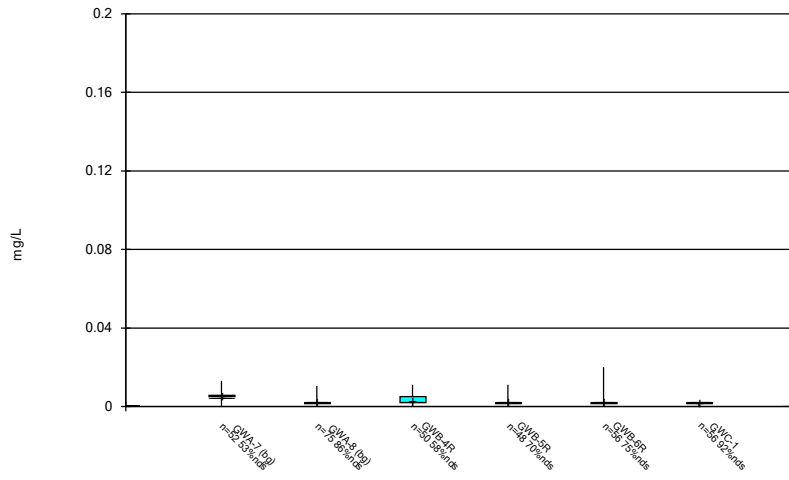
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



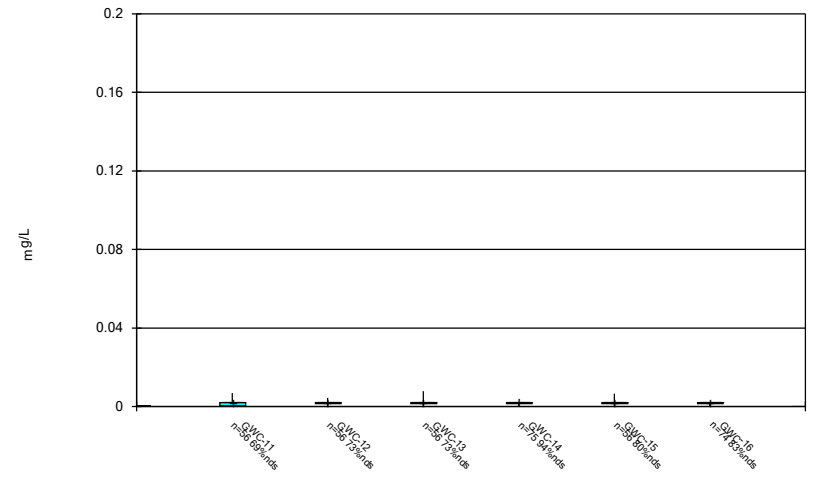
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



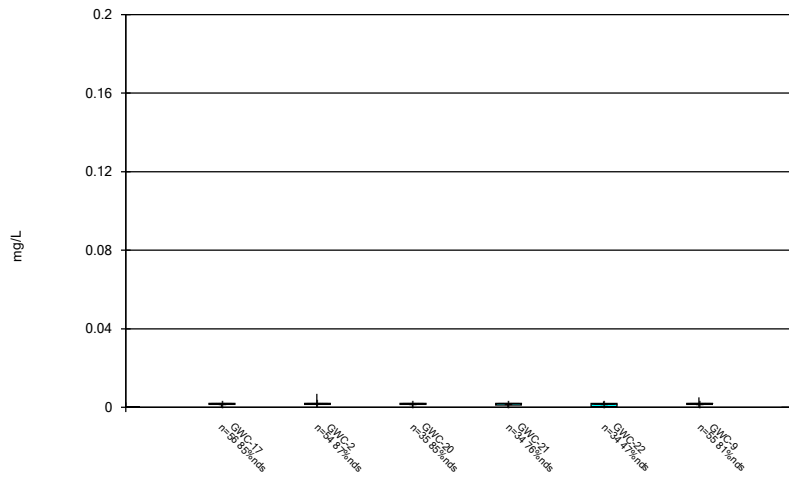
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Box & Whiskers Plot



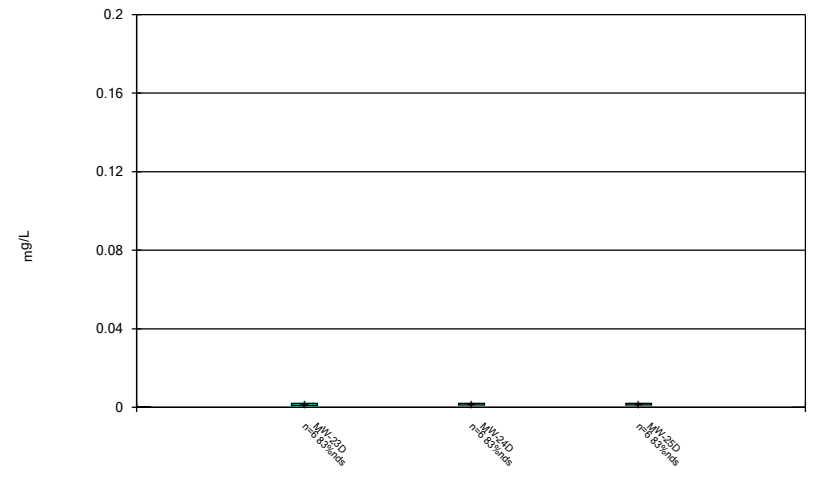
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



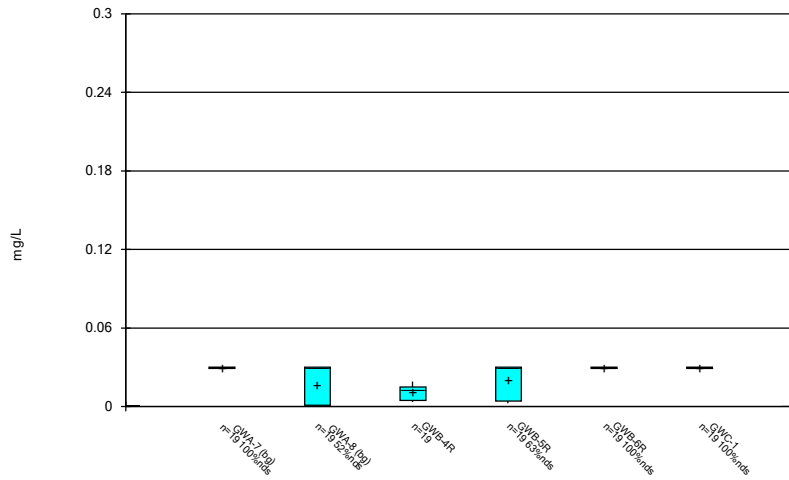
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



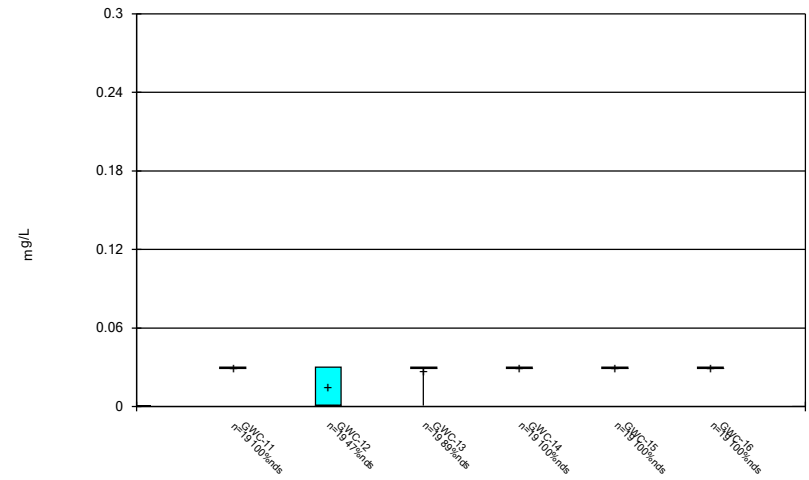
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



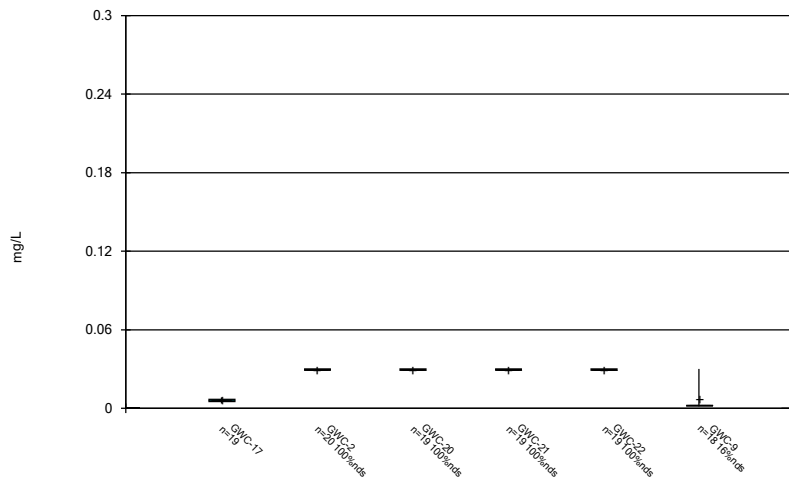
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



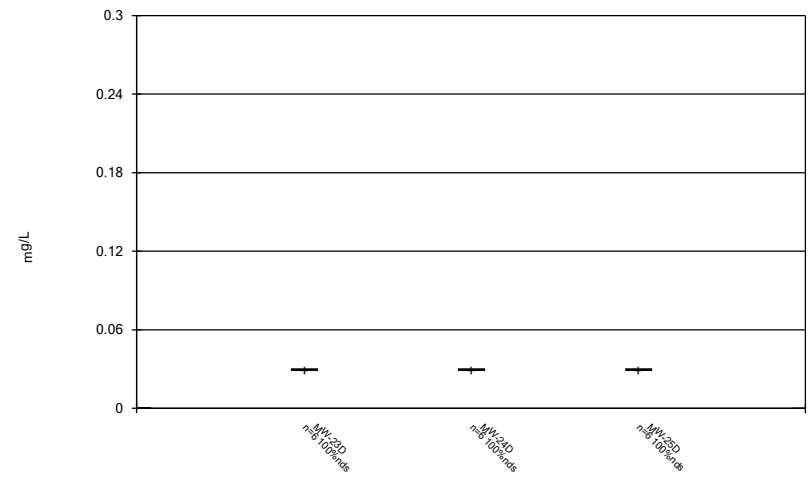
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Box & Whiskers Plot



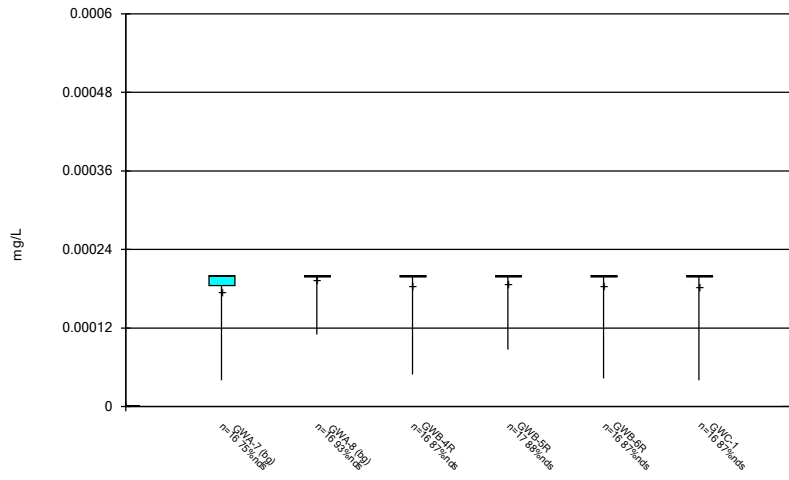
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



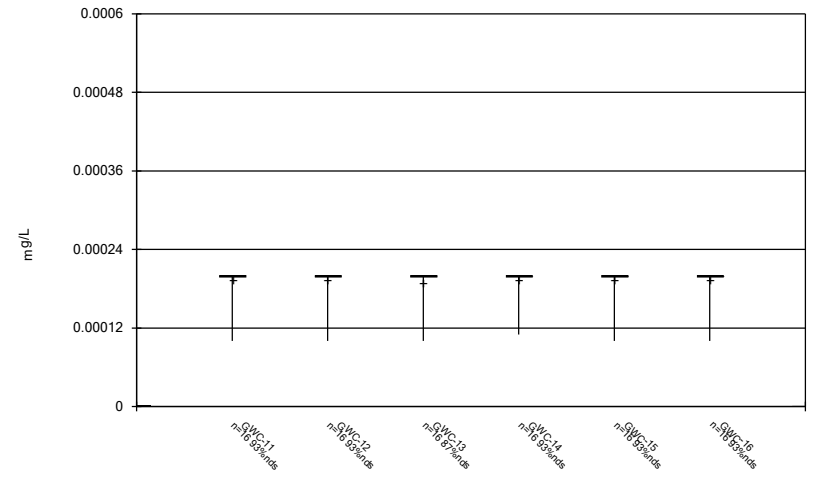
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



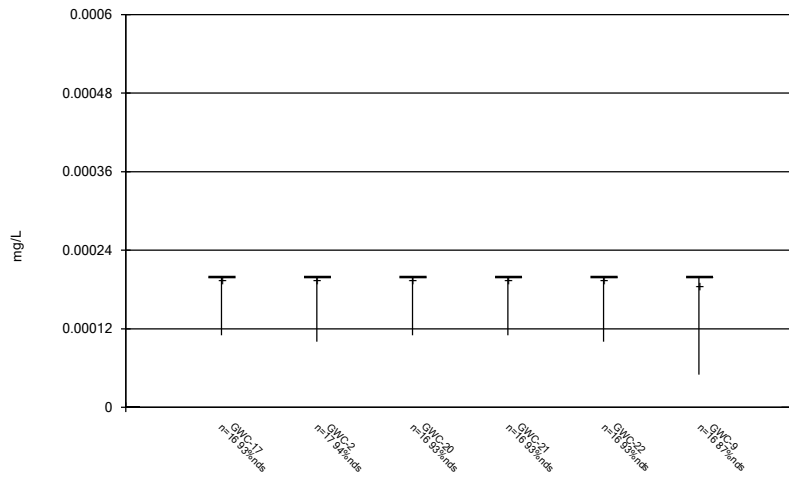
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



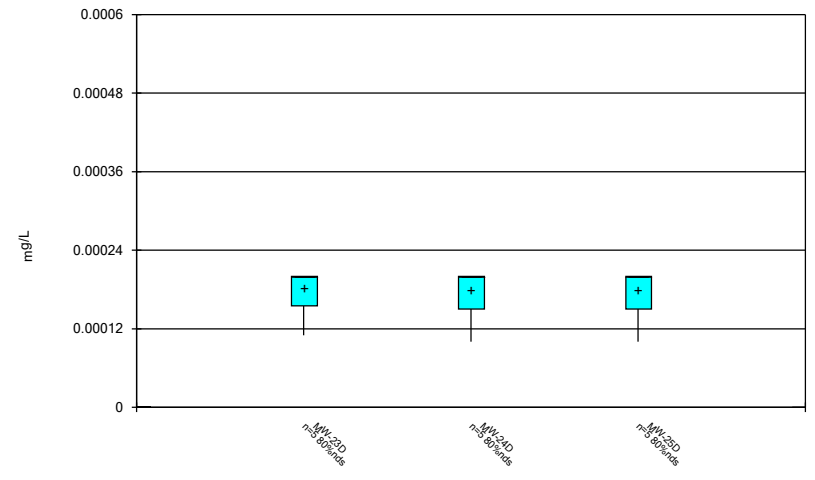
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Box & Whiskers Plot



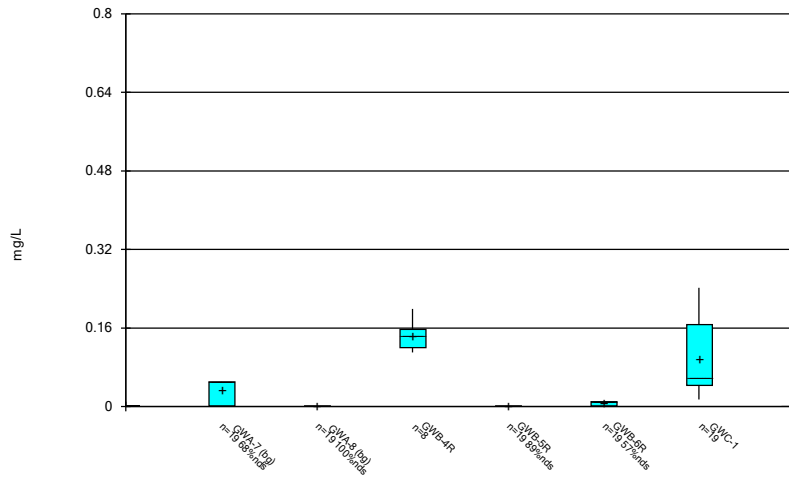
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Box & Whiskers Plot



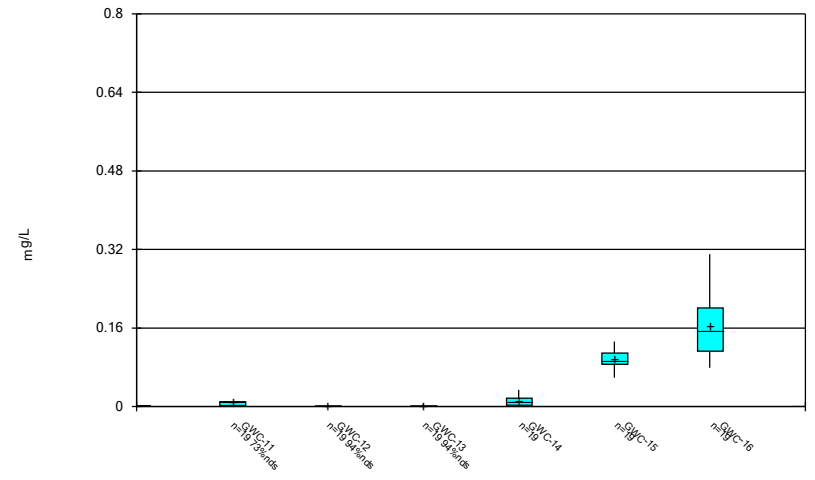
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Box & Whiskers Plot



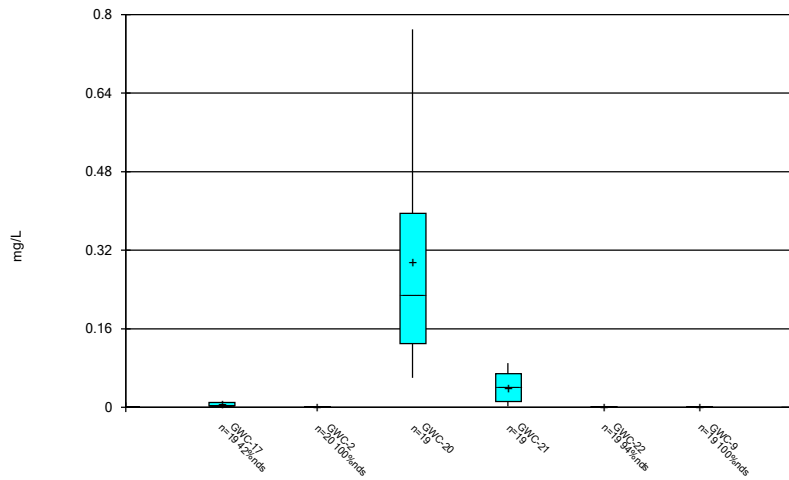
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Box & Whiskers Plot



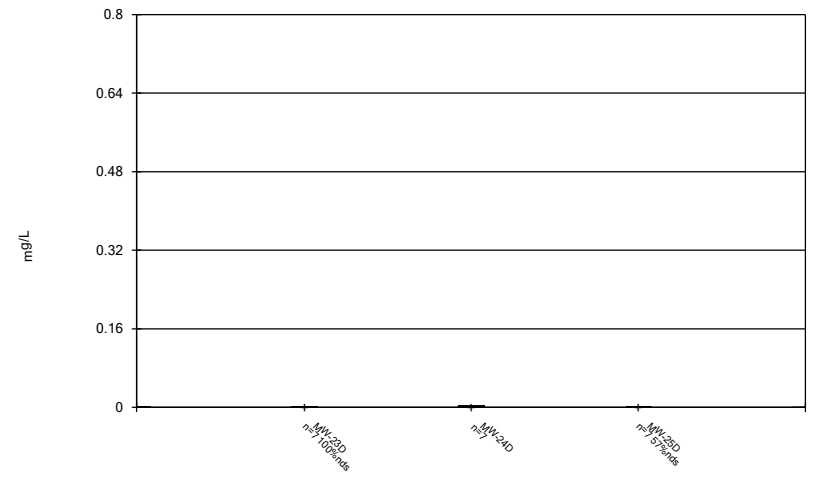
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Box & Whiskers Plot



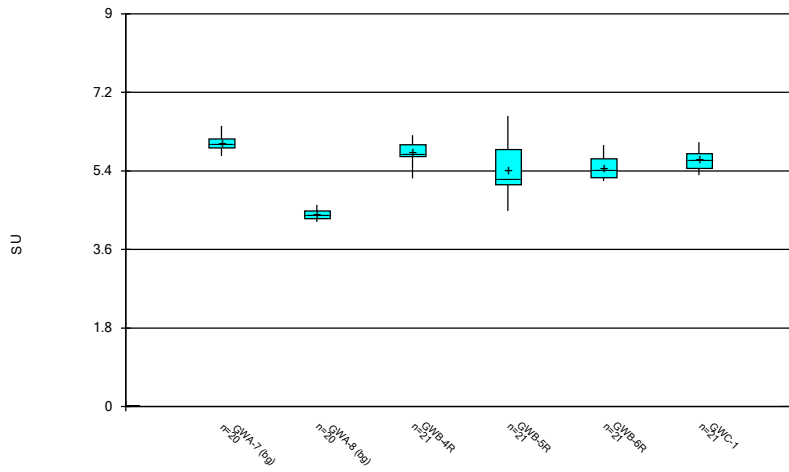
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Box & Whiskers Plot



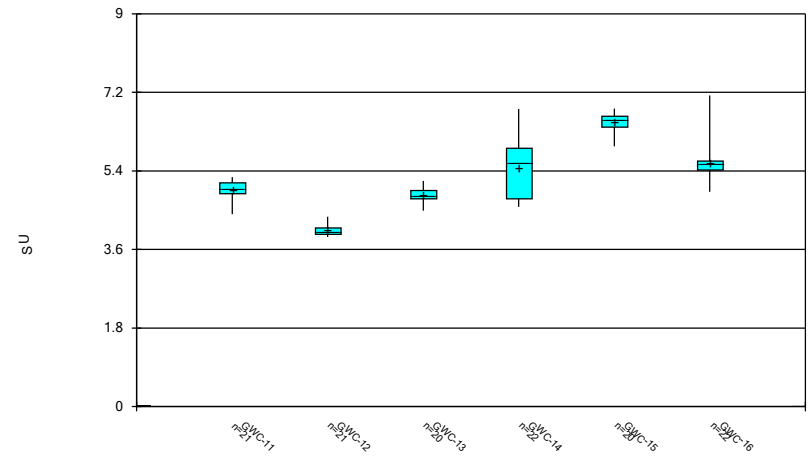
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Box & Whiskers Plot



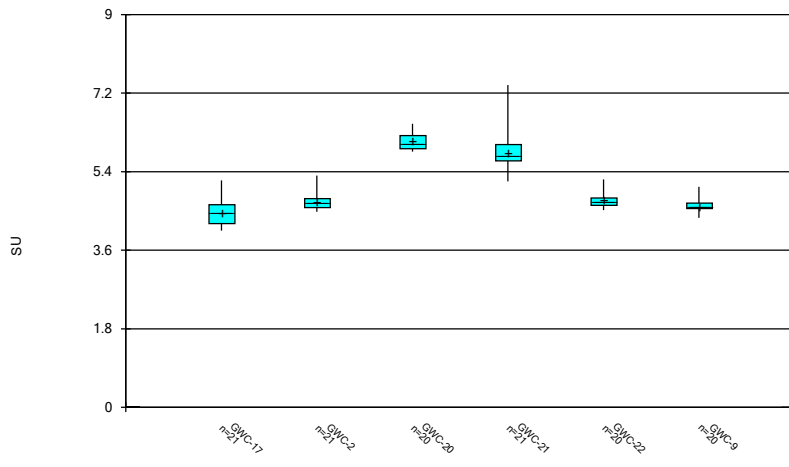
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Box & Whiskers Plot



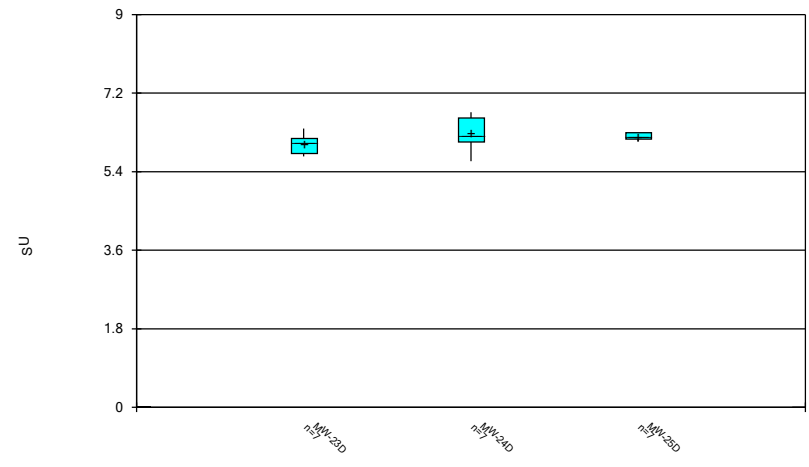
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Box & Whiskers Plot



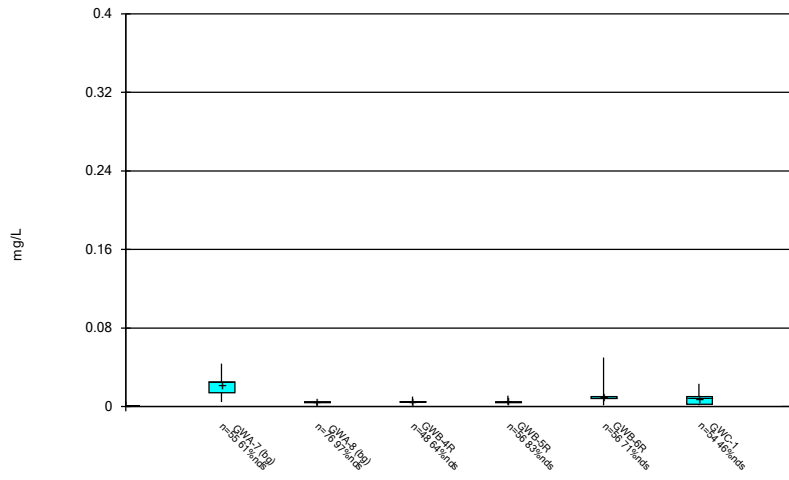
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Box & Whiskers Plot



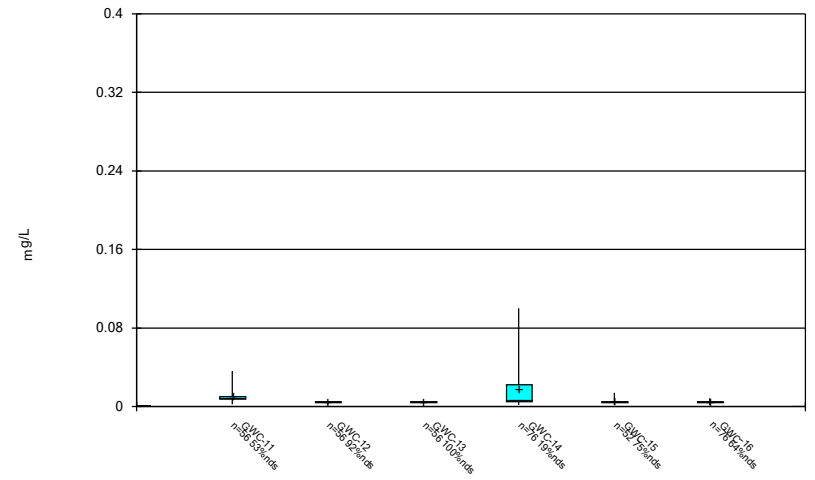
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Box & Whiskers Plot



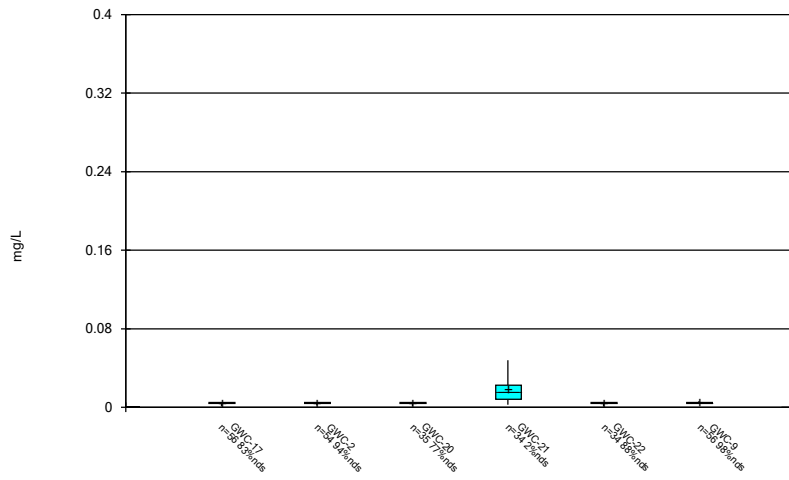
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Box & Whiskers Plot



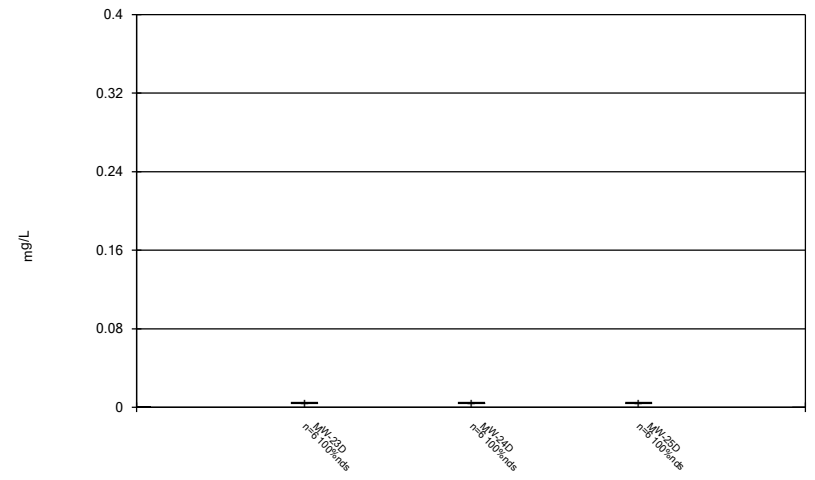
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Box & Whiskers Plot



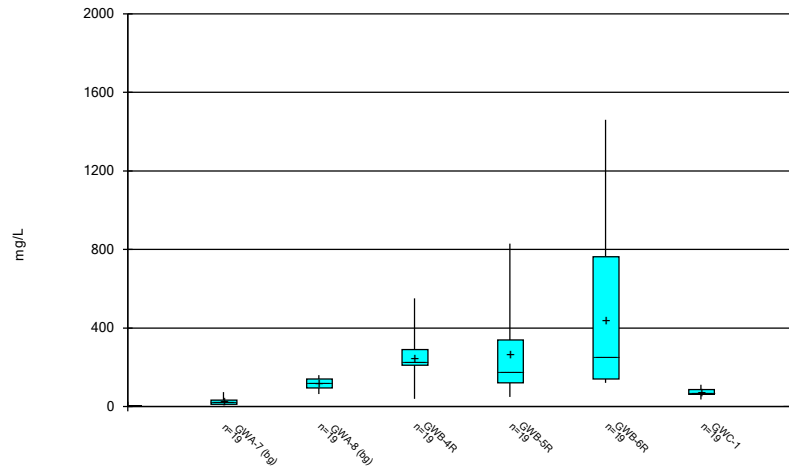
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Box & Whiskers Plot



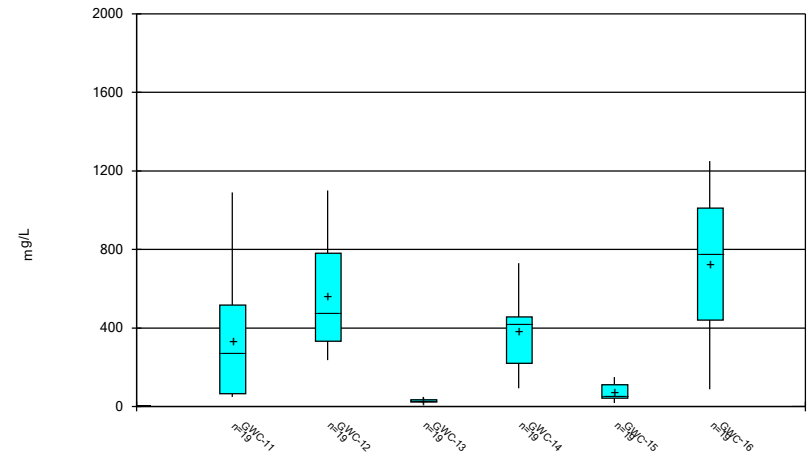
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Box & Whiskers Plot



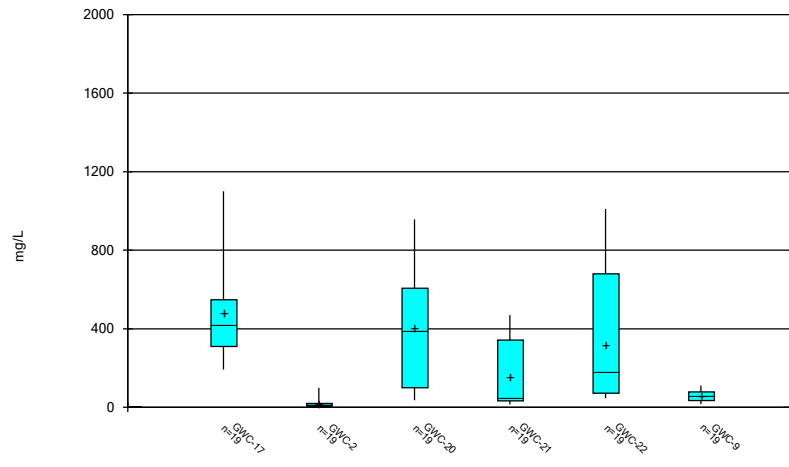
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Box & Whiskers Plot



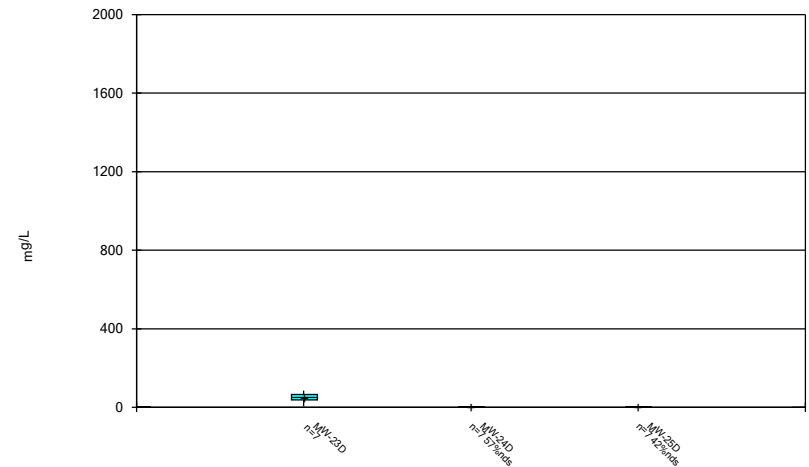
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Box & Whiskers Plot



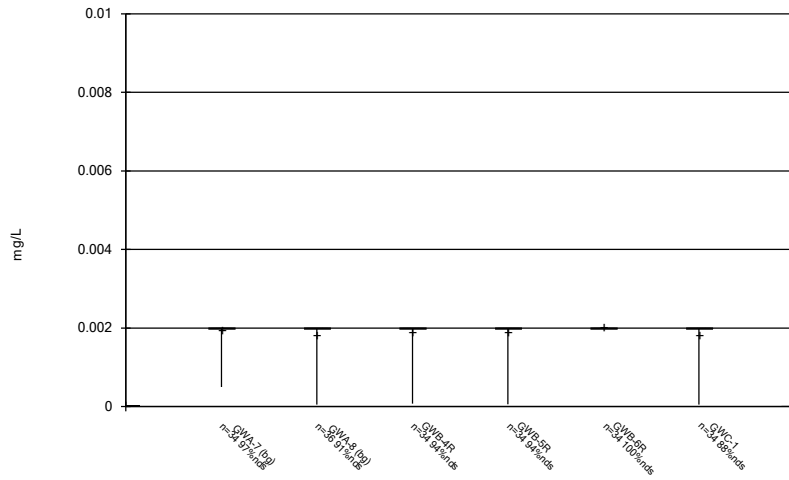
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Box & Whiskers Plot



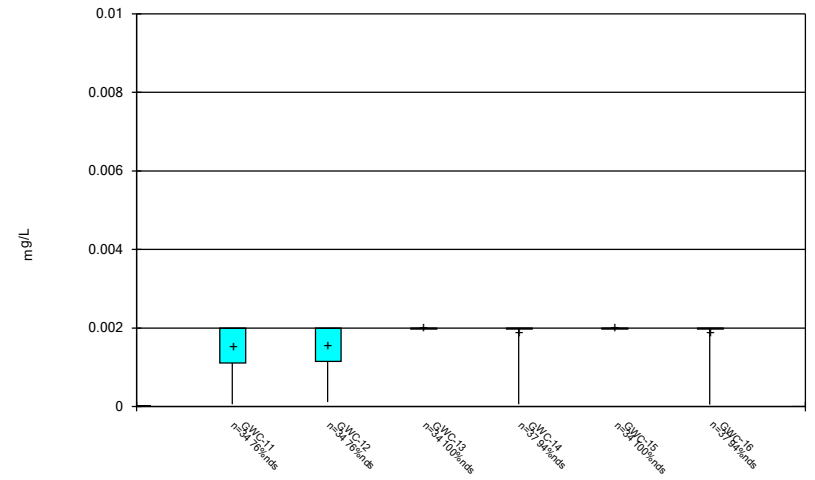
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Box & Whiskers Plot



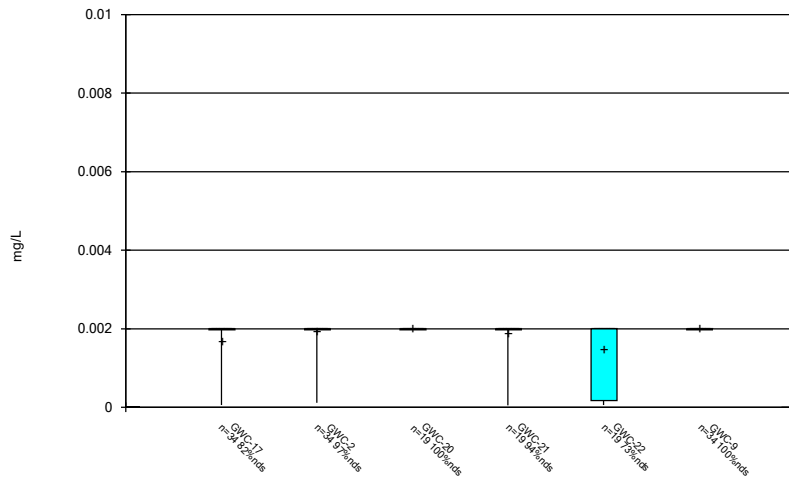
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Box & Whiskers Plot



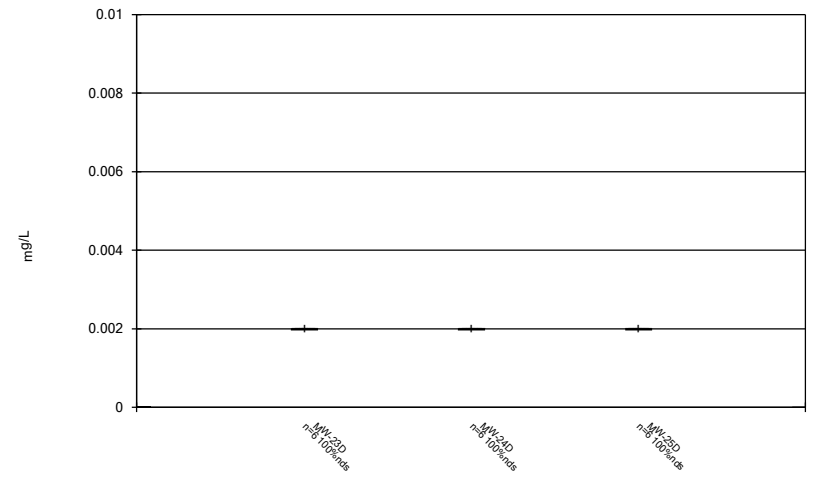
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Box & Whiskers Plot



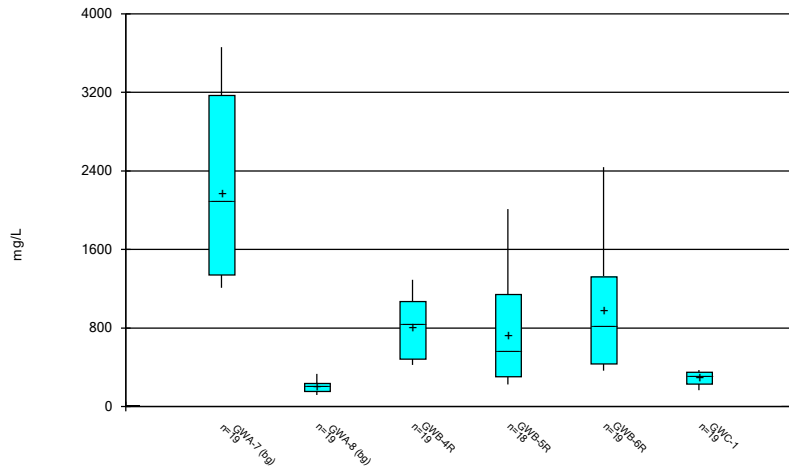
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Box & Whiskers Plot



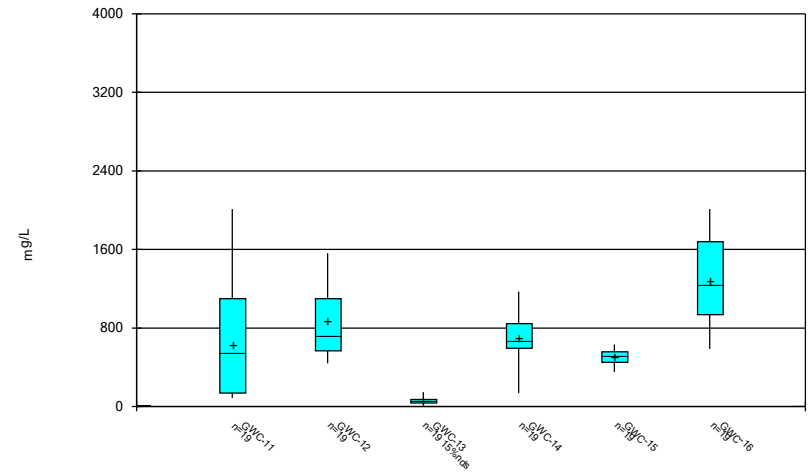
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Box & Whiskers Plot



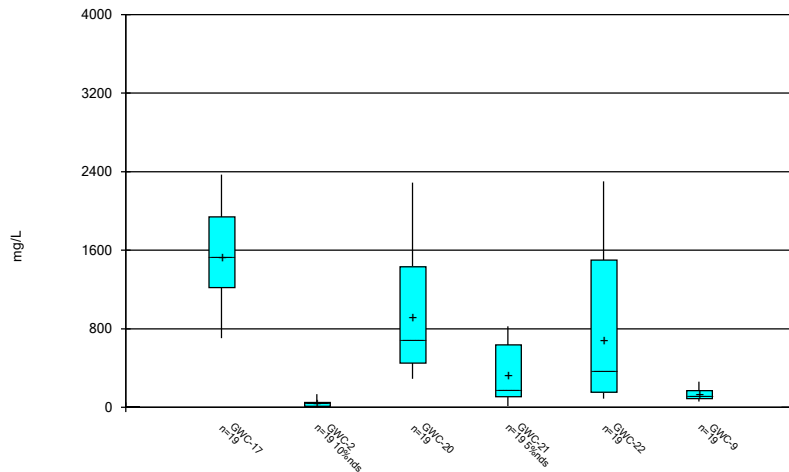
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Box & Whiskers Plot



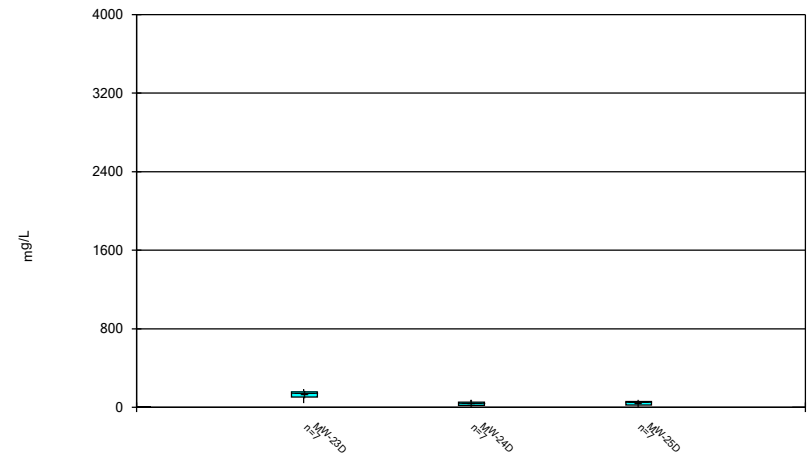
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Box & Whiskers Plot



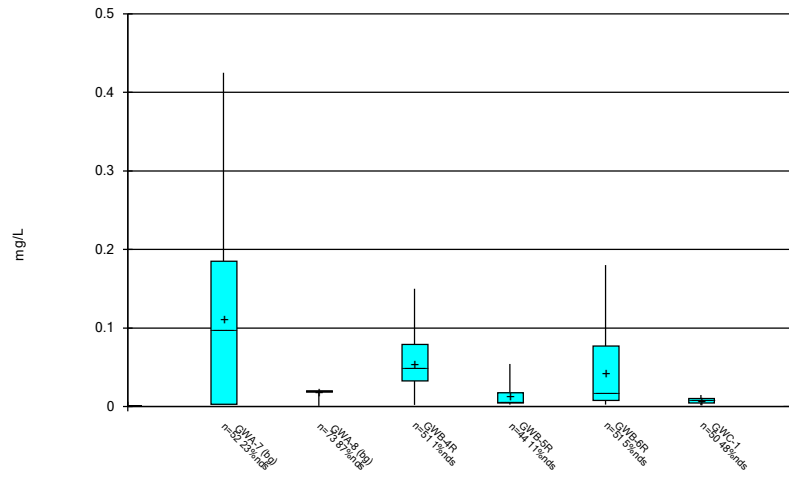
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Box & Whiskers Plot



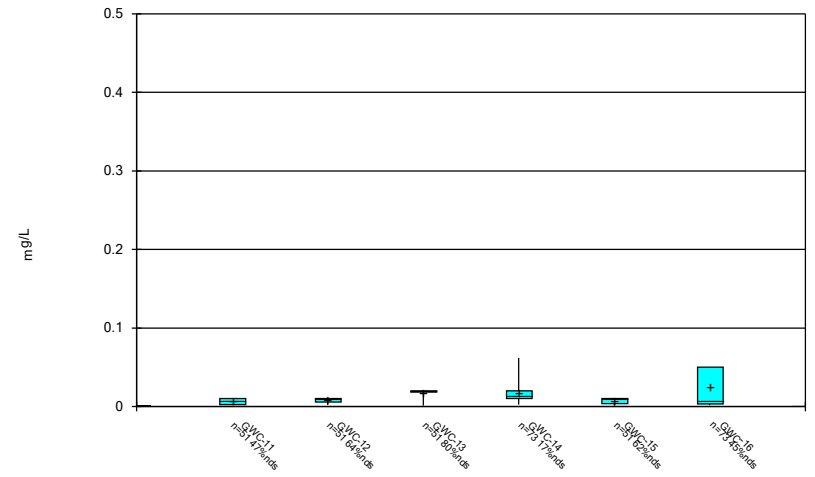
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



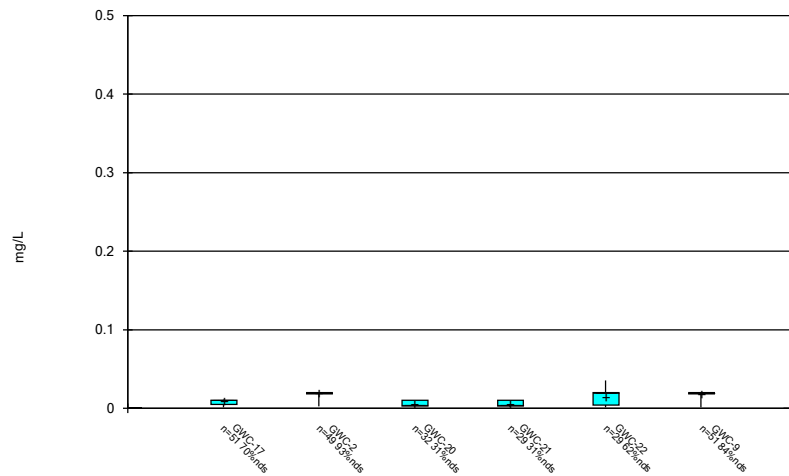
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Box & Whiskers Plot



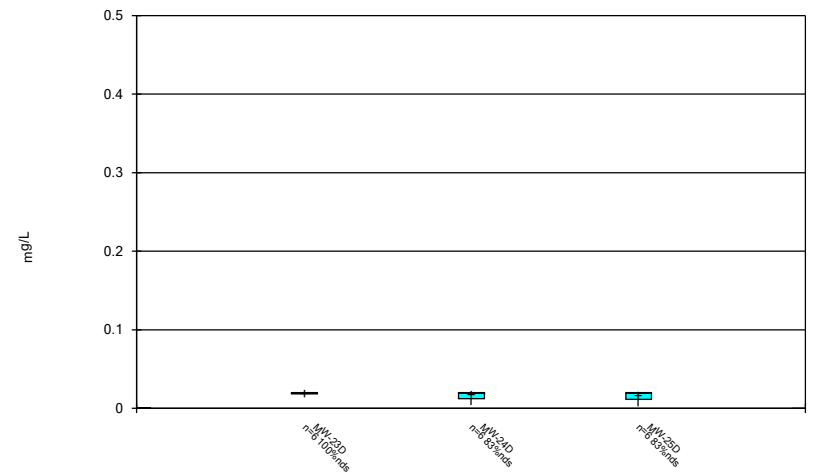
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Box & Whiskers Plot



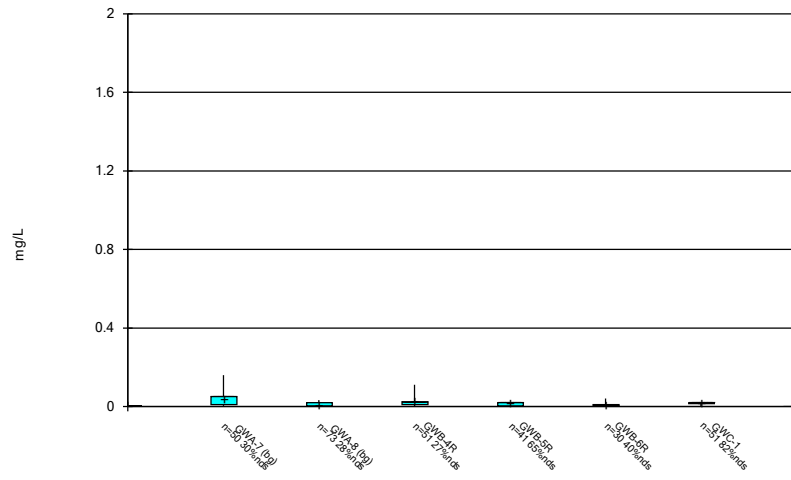
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Box & Whiskers Plot



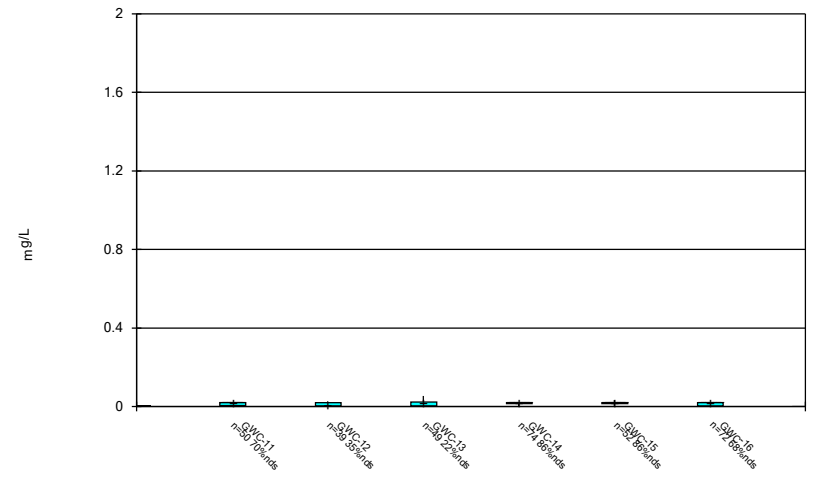
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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



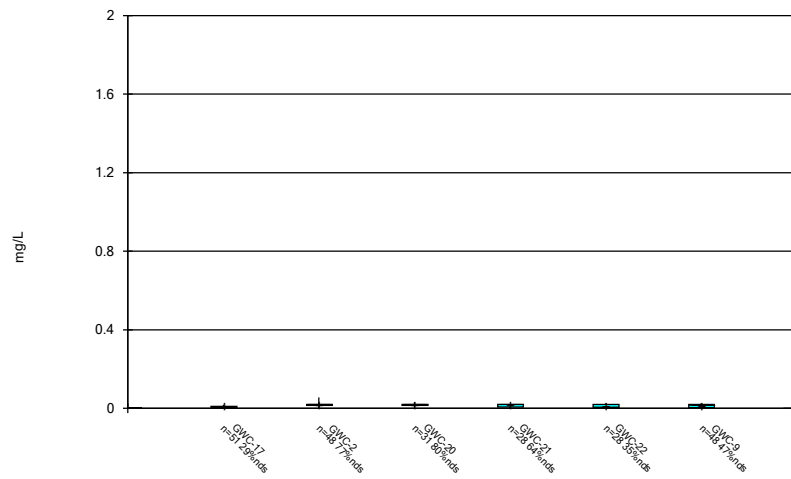
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Box & Whiskers Plot



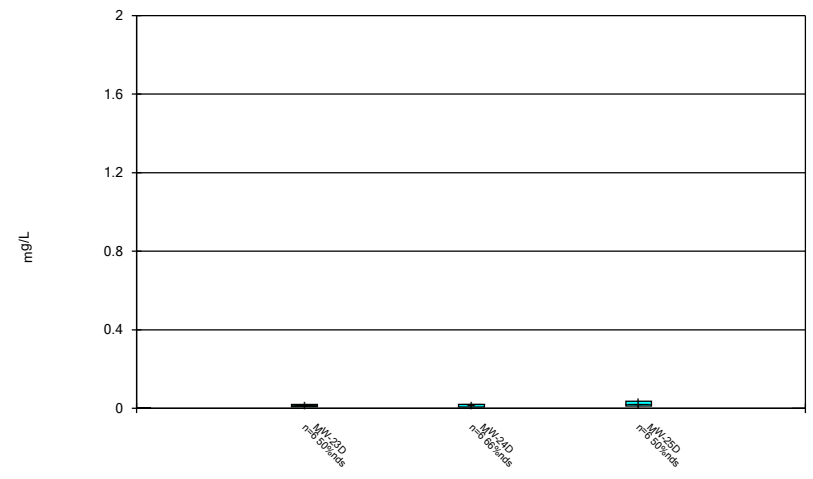
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/17/2023 3:45 PM
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/17/2023 3:45 PM
 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 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.0287	n/a	9/7/2023	0.287	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/6/2023	0.12	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	9/6/2023	0.258	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	9/6/2023	0.0323	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWC-11	0.1793	n/a	9/6/2023	0.192	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1793	n/a	9/6/2023	0.232	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2

Appendix I - Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	9/7/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	9/6/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	8/29/2023	0.003ND	No	131	n/a	n/a	95.42	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/29/2023	0.0057	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/29/2023	0.00239J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/29/2023	0.00724	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	8/29/2023	0.00668	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.0287	n/a	9/6/2023	0.00254J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	9/6/2023	0.00244J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.0287	n/a	9/7/2023	0.287	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.0287	n/a	9/6/2023	0.12	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.0287	n/a	9/6/2023	0.258	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.0287	n/a	9/6/2023	0.0323	Yes	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/29/2023	0.00216J	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	76.34	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.1793	n/a	8/29/2023	0.16	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWB-5R	0.1793	n/a	8/29/2023	0.0643	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWB-6R	0.1793	n/a	8/29/2023	0.0196	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-1	0.1793	n/a	8/29/2023	0.0637	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-11	0.1793	n/a	9/6/2023	0.192	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-12	0.1793	n/a	9/6/2023	0.0273	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-13	0.1793	n/a	8/29/2023	0.0712	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-14	0.1793	n/a	9/6/2023	0.0833	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-15	0.1793	n/a	9/7/2023	0.0573	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-16	0.1793	n/a	9/6/2023	0.143	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-17	0.1793	n/a	8/29/2023	0.0295	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-2	0.1793	n/a	8/29/2023	0.0452	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-20	0.1793	n/a	9/6/2023	0.178	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-21	0.1793	n/a	9/6/2023	0.232	Yes	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-22	0.1793	n/a	8/29/2023	0.127	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Barium (mg/L)	GWC-9	0.1793	n/a	8/29/2023	0.138	No	129	-2.484	0.371	0	None	ln(x)	0.0004702	Param Inter 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/29/2023	0.00389J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/29/2023	0.00349J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	8/29/2023	0.00337J	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	9/7/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	9/6/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	8/29/2023	0.01ND	No	130	n/a	n/a	61.54	n/a	n/a	0.0001166	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2

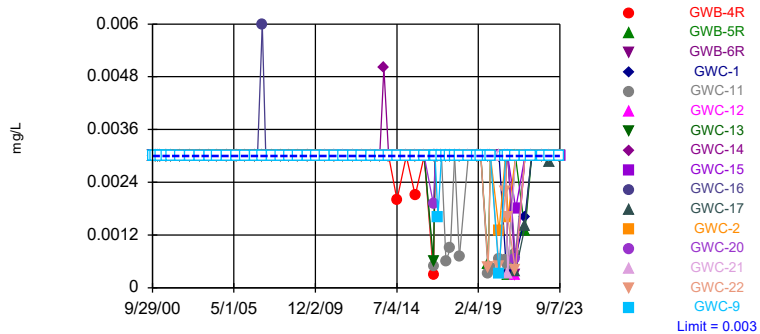
Appendix I - Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/17/2023, 3:50 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	9/7/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	9/6/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/29/2023	0.000511J	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	8/29/2023	0.002ND	No	127	n/a	n/a	73.23	n/a	n/a	0.0001219	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/29/2023	0.00261J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/29/2023	0.00204J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	8/29/2023	0.00182J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	9/6/2023	0.0036J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	9/6/2023	0.00516	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	9/7/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	9/6/2023	0.00161J	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	9/6/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	9/6/2023	0.00554	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	8/29/2023	0.005ND	No	131	n/a	n/a	82.44	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.425	n/a	8/29/2023	0.0201	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.425	n/a	8/29/2023	0.00917J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.425	n/a	8/29/2023	0.0226	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.425	n/a	8/29/2023	0.0146J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.425	n/a	9/6/2023	0.00685J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.425	n/a	9/6/2023	0.0101J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.425	n/a	8/29/2023	0.0188J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.425	n/a	9/6/2023	0.00671J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.425	n/a	9/7/2023	0.00462J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.425	n/a	9/6/2023	0.00631J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.425	n/a	8/29/2023	0.0108J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.425	n/a	8/29/2023	0.00777J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.425	n/a	9/6/2023	0.00768J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.425	n/a	9/6/2023	0.0101J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.425	n/a	8/29/2023	0.0353	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.425	n/a	8/29/2023	0.0103J	No	125	n/a	n/a	60.8	n/a	n/a	0.0001254	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/29/2023	0.0406	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	9/6/2023	0.00479J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/29/2023	0.0194J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	9/7/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/29/2023	0.00535J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	9/6/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/29/2023	0.0054J	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	8/29/2023	0.02ND	No	123	n/a	n/a	29.27	n/a	n/a	0.0001289	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

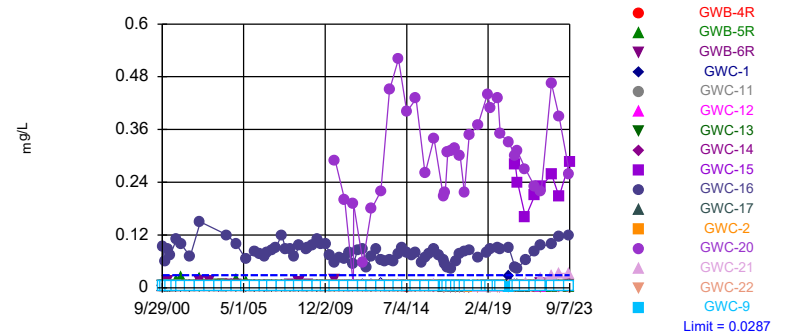


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 131 background values. 95.42% NDs. Annual per-constituent alpha = 0.00367. Individual comparison alpha = 0.0001149 (1 of 2). Comparing 16 points to limit.

Constituent: Antimony Analysis Run 11/17/2023 3:48 PM View: Appendix 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

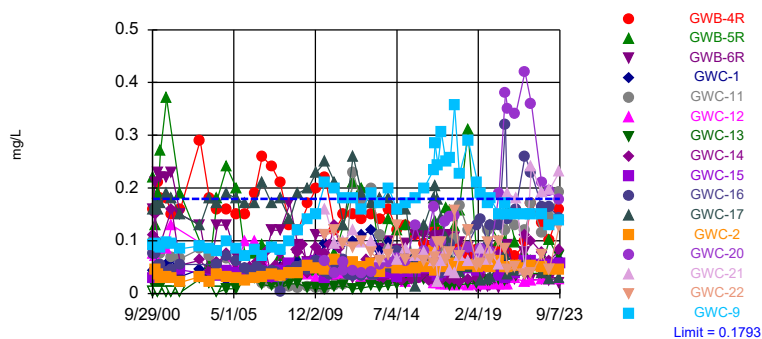


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 131 background values. 76.34% NDs. Annual per-constituent alpha = 0.00367. Individual comparison alpha = 0.0001149 (1 of 2). Comparing 16 points to limit.

Constituent: Arsenic Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Exceeds Limit: GWC-11, GWC-21

Prediction Limit
Interwell Parametric

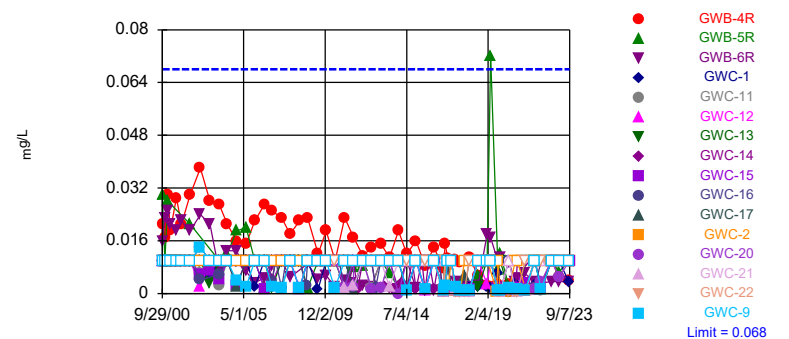


Background Data Summary (based on natural log transformation): Mean=-2.484, Std. Dev.=0.371, n=129. Normality test: Chi Squared @alpha = 0.01, calculated = 11.85, critical = 14.07. Kappa = 2.062 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Barium Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Within Limit

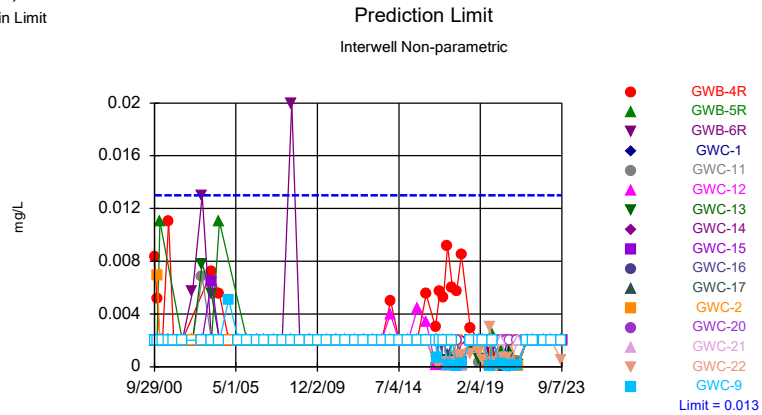
Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 130 background values. 61.54% NDs. Annual per-constituent alpha = 0.003726. Individual comparison alpha = 0.0001166 (1 of 2). Comparing 16 points to limit.

Constituent: Chromium Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

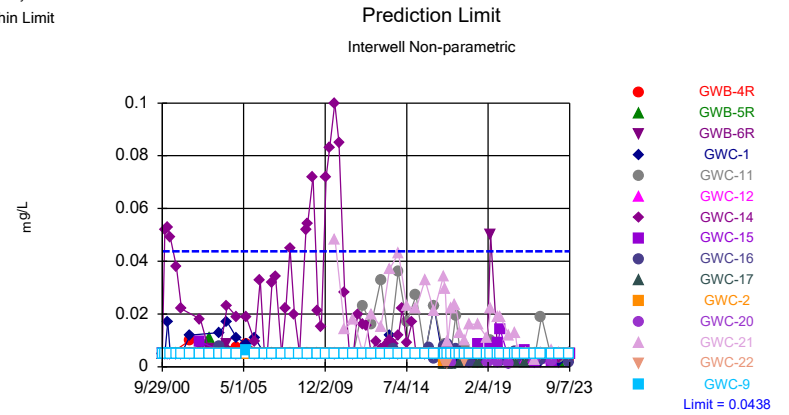
Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 73.23% NDs. Annual per-constituent alpha = 0.003893. Individual comparison alpha = 0.0001219 (1 of 2). Comparing 16 points to limit.

Constituent: Lead Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

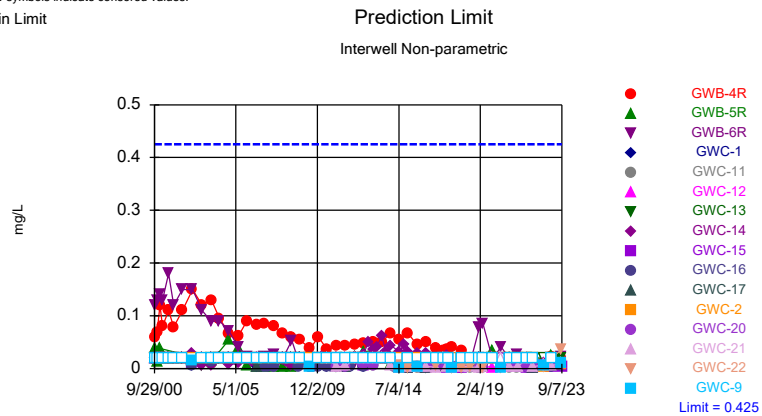
Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 131 background values. 82.44% NDs. Annual per-constituent alpha = 0.00367. Individual comparison alpha = 0.0001149 (1 of 2). Comparing 15 points to limit. Assumes 1 future value.

Constituent: Selenium Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

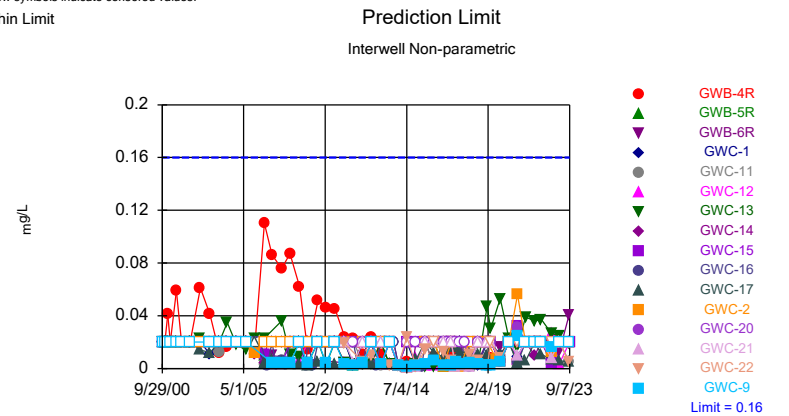
Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 125 background values. 60.8% NDs. Annual per-constituent alpha = 0.004005. Individual comparison alpha = 0.0001254 (1 of 2). Comparing 16 points to limit.

Constituent: Vanadium Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.13 . UG
Hollow symbols indicate censored values.
Within Limit



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 123 background values. 29.27% NDs. Annual per-constituent alpha = 0.004116. Individual comparison alpha = 0.0001289 (1 of 2). Comparing 16 points to limit.

Constituent: Zinc Analysis Run 11/17/2023 3:48 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	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	0.006	<0.003	<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 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	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 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-14	GWC-16	GWC-13	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	
8/28/2023	<0.003								
8/29/2023				<0.003			<0.003	<0.003	<0.003
9/6/2023		<0.003	<0.003		<0.003	<0.003			
9/7/2023									

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 11/17/2023 3:50 PM 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-21	GWC-20
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			
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 11/17/2023 3:50 PM 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-21	GWC-20
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				<0.003	0.0019 (J)
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 11/17/2023 3:50 PM 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-21	GWC-20
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)	0.00033 (J)	<0.003
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	
8/28/2023				<0.003					
8/29/2023	<0.003	<0.003	<0.003			<0.003	<0.003		
9/6/2023								<0.003	<0.003
9/7/2023					<0.003				

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWA-8 (bg)
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	0.01	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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	<0.005	<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		0.0096	0.014	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
6/6/2003	0.02	0.0076	0.014	0.03 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2003	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005
5/26/2004	<0.005	0.0068	0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2004	<0.005	0.0066	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2005	<0.005	<0.005	<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	<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	<0.005
12/5/2008		<0.005	0.0064	<0.005				<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	<0.005	
9/14/2009								<0.005	<0.005
12/20/2009	<0.005			<0.005				<0.005	<0.005
12/21/2009		<0.005	<0.005		<0.005	<0.005	<0.005		
3/4/2010								<0.005	<0.005
6/20/2010	<0.005		0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2010		0.018 (O)							
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
7/8/2011		<0.005							
9/25/2011								<0.005	<0.005
1/17/2012	<0.005			0.0071	<0.005	<0.005	<0.005	<0.005	<0.005
1/18/2012		<0.005	<0.005						
4/4/2012								<0.005	<0.005
7/9/2012	0.0052			0.0076	<0.005	<0.005	<0.005	<0.005	
7/10/2012		0.0052	<0.005					<0.005	<0.005
10/9/2012								<0.005	<0.005
1/17/2013				0.0086	<0.005	<0.005	<0.005		
1/18/2013	0.0087	<0.005	<0.005					<0.005	<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWA-8 (bg)
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	<0.005
10/11/2013								0.005	<0.005
1/13/2014	0.009			<0.005	<0.005	<0.005	<0.005		
1/14/2014		<0.005	<0.005					<0.005	<0.005
4/3/2014								<0.005	<0.005
7/8/2014					<0.005	<0.005	<0.005		
7/9/2014	0.008	0.0023 (J)	<0.005	0.0022 (J)				<0.005	<0.005
7/10/2014									
10/24/2014								<0.005	<0.005
1/12/2015		0.0028 (J)							
1/13/2015	0.0077			<0.005	<0.005	<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	0.0077	<0.005		0.0037 (J)	<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				0.024 (O)				0.002 (J)	
1/18/2016	0.014	<0.005	<0.005			<0.005	<0.005		<0.005
1/19/2016					<0.005				
4/26/2016								0.00183 (J)	0.0011 (J)
7/26/2016					<0.005		<0.005		
7/27/2016	0.0111			0.0046 (J)		<0.005		0.0021 (J)	
7/28/2016			0.0009 (J)						<0.005
7/29/2016		0.0014 (J)							
8/30/2016			<0.005	0.0023 (J)					<0.005
8/31/2016					<0.005	<0.005	<0.005		
9/1/2016	0.0287	0.0033 (J)						0.0024 (J)	
10/24/2016									<0.005
10/25/2016	0.0069			0.0035 (J)				<0.005	
10/26/2016		0.0016 (J)	<0.005		<0.005	<0.005	<0.005		
10/27/2016									
1/3/2017									<0.005
1/4/2017				0.0018 (J)	<0.005	<0.005			
1/5/2017			0.0021 (J)				<0.005	0.0024 (J)	
1/6/2017	0.0097	<0.005							
4/3/2017									0.0006 (J)
4/4/2017		0.0021 (J)		0.0015 (J)				0.003 (J)	
4/5/2017						0.0006 (J)			
4/6/2017	0.0104		0.0011 (J)		<0.005		<0.005		
7/10/2017						0.0008 (J)			
7/11/2017					<0.005			0.0019 (J)	0.0006 (J)
7/12/2017		0.0015 (J)	0.0014 (J)	0.0015 (J)			<0.005		
7/13/2017	0.0064								
10/2/2017								0.0026 (J)	0.0006 (J)
10/3/2017			0.0014 (J)	0.0013 (J)	<0.005				
10/4/2017	0.0078	0.0018 (J)				0.0009 (J)	<0.005		
1/9/2018	0.0091 (J)		0.0017 (J)					0.0021 (J)	0.0009 (J)
1/10/2018				0.0023 (J)			0.0006 (J)		

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-4R	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWA-8 (bg)
1/11/2018		0.0015 (J)			<0.005	<0.005			
7/9/2018								0.0019 (J)	<0.005
7/10/2018			0.00063 (J)	0.0031 (J)					
7/11/2018	<0.005	0.00095 (J)			<0.005	<0.005	<0.005		
1/16/2019	<0.005	0.0024 (J)	<0.005	0.0023 (J)			<0.005	0.0016 (J)	<0.005
1/17/2019					<0.005	<0.005			
1/18/2019									
1/21/2019									
3/25/2019	0.0029 (J)	0.0029 (J)							<0.005
3/26/2019			0.0029 (J)	0.0032 (J)			0.00058 (J)	0.0023 (J)	
3/27/2019					<0.005	<0.005			
7/30/2019									
8/26/2019	0.0041 (J)								<0.005
8/27/2019		0.0023 (J)	0.0035 (J)	0.0022 (J)	<0.005	<0.005	<0.005	0.0017 (J)	
8/28/2019									
10/7/2019									<0.005
10/8/2019	0.003 (J)				<0.005		<0.005	0.0017 (J)	
10/9/2019		0.0024 (J)	0.0018 (J)	0.0042 (J)		<0.005			
4/6/2020	<0.005								0.00045 (J)
4/7/2020		0.0027 (J)	<0.005	0.027	<0.005	<0.005		0.0018 (J)	
4/8/2020							<0.005		
8/17/2020						<0.005	<0.005		<0.005
8/18/2020					<0.005			0.0012 (J)	
8/19/2020	0.006 (J)	0.0033 (J)	0.0036 (J)	0.007					
9/28/2020	<0.005			0.0058			<0.005		<0.005
9/29/2020					<0.005	<0.005		<0.005	
9/30/2020			0.004 (J)						
10/1/2020		0.0027 (J)							
3/10/2021		0.0025 (J)	0.0054	0.0055	<0.005	<0.005			
3/11/2021	0.0047 (J)								
3/12/2021									<0.005
3/15/2021							<0.005		
3/16/2021								<0.005	
9/21/2021	<0.005	0.0027 (J)	0.0054		<0.005	<0.005	<0.005		<0.005
9/22/2021								0.0014 (J)	
9/23/2021				0.0048 (J)					
1/31/2022	<0.005								<0.005
2/1/2022									
2/2/2022		0.0036 (J)	0.01					0.0036 (J)	
2/3/2022				0.0057	<0.005	0.0016 (J)	0.0025 (J)		
8/30/2022	0.00321 (J)	0.0049 (J)	0.00716			<0.005		<0.005	<0.005
8/31/2022					<0.005		<0.005		
9/1/2022				0.00568					
1/31/2023	0.0025 (J)								<0.005
2/1/2023			0.0042 (J)		<0.005	<0.005	<0.005		
2/2/2023		0.00556		0.00433 (J)				0.00261 (J)	
8/28/2023	0.0039 (J)								<0.005
8/29/2023		0.0057	0.00724	0.00668			<0.005		
9/6/2023					0.00254 (J)	<0.005		0.00244 (J)	
9/7/2023									

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21	GWC-15
9/29/2000	0.094	<0.005	<0.005	<0.005					<0.01
11/21/2000	0.059	<0.005	<0.005	<0.005	<0.005				<0.01
1/20/2001	0.087	<0.005	<0.005	<0.005	<0.005				<0.01
3/14/2001	0.075	<0.005	<0.005	<0.005	<0.005				<0.01
7/16/2001	0.11	<0.005	<0.005	0.014	<0.005				<0.01
11/1/2001	0.098	<0.005	<0.005	0.023	<0.005				<0.01
4/25/2002	0.071	<0.005	<0.005	<0.005	<0.005				<0.005
11/20/2002	0.15	<0.005	<0.005	0.022	<0.005				<0.005
6/6/2003	1.2 (O)	<0.005	<0.005	0.07 (O)	<0.005				<0.005
12/12/2003	0.27 (O)	<0.005	<0.005	<0.005	<0.005				<0.005
5/26/2004	0.12	<0.005	<0.005	0.0074	<0.005				<0.005
12/7/2004	0.098	<0.005	<0.005	0.017	<0.005				<0.005
6/21/2005	0.065	<0.005	<0.005	0.013	<0.005				<0.005
12/12/2005	0.081	<0.005	<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				<0.005
8/30/2006	0.08								
12/4/2006	0.085	<0.005	<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				<0.005
9/11/2007	0.088								
12/11/2007	0.088	<0.005	<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				<0.005
11/3/2008	0.089								
12/4/2008			<0.005		<0.005				
12/5/2008	0.092	<0.005		<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				0.0052
9/14/2009	0.099								
12/20/2009	0.1				<0.005				<0.005
12/21/2009		<0.005	<0.005	<0.005					
3/4/2010	0.074								
6/20/2010			<0.005	<0.005	<0.005				0.0068
6/21/2010	0.056	<0.005				0.29	<0.005	0.013 (O)	
9/14/2010	0.067								
1/6/2011				<0.005	<0.005				
1/7/2011	0.066	<0.005	<0.005			0.2	<0.005	<0.005	<0.005
4/15/2011	0.08								
7/7/2011	0.054			<0.005		<0.005			<0.005
7/8/2011		<0.005	<0.005			0.19	<0.005	<0.005	
9/25/2011	0.085								
1/17/2012				<0.005	<0.005				<0.005
1/18/2012	0.089	<0.005	<0.005			0.058	<0.005	<0.005	
4/4/2012	0.0473								
7/9/2012				<0.005	<0.005				<0.005
7/10/2012	0.07	<0.005	<0.005			0.18	<0.005	<0.005	
10/9/2012	0.088								
1/17/2013				<0.005	<0.005				
1/18/2013	0.063	<0.005	<0.005			0.22	<0.005	0.0061	0.0089

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21	GWC-15
4/5/2013	0.06								
7/16/2013				<0.005					
7/17/2013	0.063	<0.005	<0.005		<0.005	0.45	<0.005	<0.005	0.011
10/11/2013	0.059								
1/13/2014				<0.005	<0.005				0.017
1/14/2014	0.077	<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	<0.005	<0.005	<0.005			<0.005	0.014
7/10/2014						0.4	0.0027 (J)		
10/24/2014	0.073								
1/12/2015						0.43			
1/13/2015				<0.005	<0.005				0.011
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				0.02
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	0.014
1/18/2016		<0.005	<0.005	<0.005			<0.005		
1/19/2016									
4/26/2016	0.0731								
7/26/2016									
7/27/2016				0.0008 (J)	<0.005				0.0303
7/28/2016	0.0627		<0.005			0.209		<0.005	
7/29/2016		0.0009 (J)					0.002 (J)		
8/30/2016				<0.005					
8/31/2016			<0.005		<0.005		0.0017 (J)		
9/1/2016	0.0551	<0.005				0.215		0.0039 (J)	0.0533
10/24/2016									
10/25/2016	0.0466					0.307		<0.005	0.0551
10/26/2016		<0.005		<0.005	<0.005		<0.005		
10/27/2016			<0.005						
1/3/2017				<0.005					
1/4/2017	0.0444					0.311	<0.005	<0.005	
1/5/2017		<0.005			<0.005				0.0437
1/6/2017			<0.005						
4/3/2017									0.0713
4/4/2017					<0.005	0.317		0.0031 (J)	
4/5/2017	0.0591	0.0011 (J)							
4/6/2017			<0.005	0.0006 (J)			0.0006 (J)		
7/10/2017									
7/11/2017						0.299	0.0012 (J)		0.0745
7/12/2017	0.0776		<0.005	0.0009 (J)					
7/13/2017		0.0016 (J)			<0.005			<0.005	
10/2/2017						0.216			0.0723
10/3/2017	0.0813			0.001 (J)	<0.005			<0.005	
10/4/2017		0.0019 (J)	<0.005				0.0025 (J)		
1/9/2018								0.0033 (J)	0.0731
1/10/2018	0.085			0.0012 (J)	0.0006 (J)	0.347			

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-5R	GWC-2	GWC-20	GWC-22	GWC-21	GWC-15
1/11/2018		0.0015 (J)	<0.005				0.0006 (J)		
7/9/2018						0.37			
7/10/2018	0.067			0.0016 (J)	<0.005			0.0027 (J)	0.09
7/11/2018		0.00082 (J)	<0.005				0.0011 (J)		
1/16/2019		<0.005		0.0011 (J)					
1/17/2019	0.079							0.0022 (J)	0.13
1/18/2019			<0.005				<0.005		
1/21/2019					<0.005	0.44			
3/25/2019						0.41			
3/26/2019	0.089	0.0015 (J)		0.0014 (J)				0.0045 (J)	0.1
3/27/2019			<0.005				<0.005		
7/30/2019					0.00039 (J)				
8/26/2019									
8/27/2019					<0.005		0.00044 (J)		0.17
8/28/2019	0.091	0.0011 (J)	<0.005	0.0023 (J)		0.43		0.002 (J)	
10/7/2019									
10/8/2019	0.088							0.0028 (J)	0.13
10/9/2019		0.0011 (J)	<0.005	0.0053 (J)	<0.005	0.35	<0.005		
4/6/2020									
4/7/2020	0.091			0.0011 (J)			0.00043 (J)	<0.005	0.24
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	0.28
8/19/2020			<0.005	0.0019 (J)					
9/28/2020									
9/29/2020					<0.005				
9/30/2020	0.044	0.0012 (J)		0.0017 (J)		0.31	<0.005	0.0029 (J)	0.24
10/1/2020			<0.005						
3/10/2021			<0.005	0.0019 (J)			<0.005		
3/11/2021		0.0009 (J)							
3/12/2021						0.27			0.16
3/15/2021					<0.005				
3/16/2021	0.064							0.0098	
9/21/2021				<0.005			<0.005		
9/22/2021	0.081	<0.005	<0.005		<0.005	0.23		<0.005	
9/23/2021									0.21
1/31/2022									
2/1/2022	0.095	<0.005				0.22		0.02	
2/2/2022			<0.005		<0.005				
2/3/2022				0.0029 (J)			<0.005		0.23
8/30/2022				0.00253 (J)		0.465		0.0271	
8/31/2022		<0.005					<0.005		0.259
9/1/2022	0.0987		<0.005		<0.005				
1/31/2023									
2/1/2023	0.115	<0.005	<0.005	0.00295 (J)		0.389			
2/2/2023					<0.005		<0.005	0.0323	0.207
8/28/2023									
8/29/2023		<0.005	<0.005	0.00239 (J)	<0.005		0.00216 (J)		
9/6/2023	0.12					0.258		0.0323	
9/7/2023									0.287

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix 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 11/17/2023 3:50 PM View: Appendix 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 11/17/2023 3:50 PM 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-21	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					0.11	0.16	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		0.12	0.095	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				0.094	0.1	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				0.087	0.12	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			0.1	0.097	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		0.078	0.1	0.04
4/5/2013				0.078					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 11/17/2023 3:50 PM 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-21	GWC-20
7/16/2013	0.076								
7/17/2013		0.14	0.17	0.083	0.039	0.041	0.062	0.069	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			0.073	0.086	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			0.065	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		0.079	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							0.0975	0.0617	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 11/17/2023 3:50 PM 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-21	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		0.1	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	0.18	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		0.045	0.19	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			
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	
8/28/2023				0.0483					
8/29/2023	0.0643	0.16	0.138			0.0452	0.127		
9/6/2023								0.232	0.178
9/7/2023					0.0573				

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix 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 11/17/2023 3:50 PM View: Appendix 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 11/17/2023 3:50 PM View: Appendix 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	
8/28/2023	0.0139								
8/29/2023				<0.01	<0.01			0.00337 (J)	0.00349 (J)
9/6/2023			<0.01			<0.01	<0.01		
9/7/2023		<0.01							

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix 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-20	GWC-22	GWC-21
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		<0.01	<0.01	0.0019
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		0.0018	<0.01	0.0017
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				0.0019	<0.01	0.0023
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		0.0013	<0.01	<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		0.0015	<0.01	<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix 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-20	GWC-22	GWC-21
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	<0.01	<0.01	0.0019
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	<0.01	<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)		0.0007 (J)		0.0005 (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)	0.0011 (J)		0.0008 (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 11/17/2023 3:50 PM View: Appendix 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-20	GWC-22	GWC-21
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)		0.00089 (J)		0.00087 (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			0.00049 (J)	<0.01
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	0.0011 (J)	0.00056 (J)	0.0012 (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)		0.0013 (J)	0.00064 (J)	0.00067 (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	0.0013 (J)		<0.01
9/23/2021									
1/31/2022				<0.01					
2/1/2022					<0.01		0.0036 (J)		<0.01
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
8/28/2023				<0.01					
8/29/2023	<0.01	0.00389 (J)	<0.01			<0.01		<0.01	
9/6/2023					<0.01		<0.01		<0.01
9/7/2023									

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-15	GWC-9	GWC-13	GWB-6R	GWC-17	GWC-1	GWA-8 (bg)
9/29/2000	<0.002	<0.002	<0.002	<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	<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	<0.002	<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		<0.002	<0.002	0.0086 (O)	<0.002	0.0057 (J)	<0.002	<0.002	<0.002
6/6/2003	0.037 (O)	0.0068	<0.002	<0.002	0.0078	0.013	<0.002	<0.002	0.016 (O)
12/12/2003	0.008	<0.002	0.0065	<0.002	0.0055	<0.002	<0.002	<0.002	0.0095
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	0.0051	<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	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006									<0.002
12/4/2006	<0.002	<0.002	<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
6/24/2008			<0.002			0.02	<0.002	<0.002	
11/3/2008									<0.002
12/4/2008	<0.002	<0.002		<0.002	<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
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	<0.002
12/21/2009		<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	
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	
1/18/2013	<0.002		<0.002	<0.002		<0.002	<0.002		<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-15	GWC-9	GWC-13	GWB-6R	GWC-17	GWC-1	GWA-8 (bg)
4/5/2013									<0.002
7/16/2013		<0.002			<0.002			<0.002	
7/17/2013	<0.002		<0.002	<0.002		<0.002	<0.002		<0.002
10/11/2013									<0.002
1/13/2014	0.013	<0.002	<0.002		<0.002			<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	0.0076 (J)		<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
7/10/2014									
10/24/2014									<0.002
1/12/2015									
1/13/2015	0.0057 (J)	<0.002	<0.002		<0.002			<0.002	
1/14/2015				<0.002		<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			<0.002	
7/17/2015				<0.002		<0.002			<0.002
7/18/2015							<0.002		
10/6/2015									<0.002
1/17/2016			<0.002					<0.002	
1/18/2016	0.0094 (J)			<0.002	<0.002	<0.002	<0.002		<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					<0.002	
7/28/2016				<0.002		<0.002			<0.002
7/29/2016							<0.002		
8/30/2016						<0.002		<0.002	<0.002
8/31/2016		0.0002 (J)		0.0007 (J)	<0.002				
9/1/2016	0.0663 (O)		<0.002				<0.002		
10/24/2016									<0.002
10/25/2016	0.0003 (J)		<0.002					<0.002	
10/26/2016		0.0001 (J)			<0.002	<0.002	<0.002		
10/27/2016				<0.002					
1/3/2017									0.0001 (J)
1/4/2017		0.0002 (J)						<0.002	
1/5/2017			<0.002		0.0002 (J)	0.0003 (J)	<0.002		
1/6/2017	0.006			<0.002					
4/3/2017			0.0003 (J)						0.0002 (J)
4/4/2017								<0.002	
4/5/2017							0.0009 (J)		
4/6/2017	0.0109	0.0003 (J)		0.0001 (J)	0.0005 (J)	0.0002 (J)			
7/10/2017									
7/11/2017		0.0002 (J)	0.0001 (J)						0.0001 (J)
7/12/2017				<0.002	0.0005 (J)	0.0002 (J)		<0.002	
7/13/2017	0.007						<0.002		
10/2/2017			0.0002 (J)						0.0001 (J)
10/3/2017		0.0003 (J)				0.0001 (J)		<0.002	
10/4/2017	0.0042 (J)			9E-05 (J)	0.0007 (J)		0.0001 (J)		
1/9/2018	0.0098		0.0002 (J)			0.0003 (J)			0.0001 (J)
1/10/2018					0.0009 (J)			0.0001 (J)	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-15	GWC-9	GWC-13	GWB-6R	GWC-17	GWC-1	GWA-8 (bg)
1/11/2018		0.0003 (J)		0.0002 (J)			0.0001 (J)		
7/9/2018									<0.002
7/10/2018			<0.002			<0.002		<0.002	
7/11/2018	0.0028 (J)	<0.002		<0.002	0.0015 (J)		<0.002		
1/16/2019	<0.025 (O)				0.00061 (J)	<0.002	<0.002	<0.002	<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	<0.002	
3/27/2019		0.00029 (J)		<0.002					
7/30/2019									
8/26/2019	0.013 (J)								<0.002
8/27/2019		0.00021 (J)	0.00033 (J)		0.0001 (J)	0.0011 (J)		<0.002	
8/28/2019				6.1E-05 (J)			<0.002		
10/7/2019									<0.002
10/8/2019	0.0098 (J)	0.00028 (J)	0.00012 (J)		0.00013 (J)				
10/9/2019				<0.002		0.00033 (J)	0.00015 (J)	<0.002	
4/6/2020	0.0024 (J)								0.0001 (J)
4/7/2020		0.00036 (J)	8.6E-05 (J)			0.00063 (J)		0.00012 (J)	
4/8/2020				0.00021 (J)	0.00017 (J)		8.4E-05 (J)		
8/17/2020					7.6E-05 (J)				<0.002
8/18/2020		0.00035 (J)	9E-05 (J)				0.00014 (J)		
8/19/2020	0.0044 (J)			9.6E-05 (J)		0.00014 (J)		<0.002	
9/28/2020	0.0043 (J)				6.4E-05 (J)			4.3E-05 (J)	<0.002
9/29/2020		0.00032 (J)							
9/30/2020			4.7E-05 (J)			8E-05 (J)	6E-05 (J)		
10/1/2020				3.8E-05 (J)					
3/10/2021		0.00042 (J)		0.00012 (J)		9.6E-05 (J)		0.0001 (J)	
3/11/2021	0.0079						0.00019 (J)		
3/12/2021			5.3E-05 (J)						9.3E-05 (J)
3/15/2021					0.00013 (J)				
3/16/2021									
9/21/2021	<0.002	<0.002			<0.002	<0.002			<0.002
9/22/2021				<0.002			<0.002		
9/23/2021			<0.002					<0.002	
1/31/2022	<0.002								<0.002
2/1/2022							<0.002		
2/2/2022				<0.002		<0.002			
2/3/2022		<0.002	<0.002		<0.002			<0.002	
8/30/2022	0.0022					<0.002			<0.002
8/31/2022		<0.002	<0.002		<0.002		<0.002		
9/1/2022				<0.002				<0.002	
1/31/2023	0.00126 (J)								0.0104
2/1/2023		<0.002		<0.002	<0.002	<0.002	<0.002		
2/2/2023			<0.002					<0.002	
8/28/2023	0.0017 (J)			<0.002	<0.002	<0.002	<0.002	<0.002	0.000566 (J)
8/29/2023				<0.002	<0.002	<0.002	<0.002	<0.002	
9/6/2023		<0.002							
9/7/2023			<0.002						

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-12	GWC-16	GWC-14	GWC-2	GWB-5R	GWC-22	GWC-20	GWC-21
9/29/2000	0.0083	<0.002	<0.002	<0.002	<0.002	0.017 (O)			
11/21/2000	0.0052	<0.002	<0.002	<0.002	<0.002	0.0069	<0.002		
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.011		
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.026 (O)		
7/16/2001	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	0.043 (O)		
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.075 (O)		
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
11/20/2002	0.018 (O)	<0.002	<0.002	0.011 (O)	<0.002	<0.002	0.057 (O)		
6/6/2003	0.015 (O)	<0.002	0.099 (O)	<0.002	<0.002	<0.002	0.16 (O)		
12/12/2003	0.0072	<0.002	0.017 (O)	<0.002	<0.002	<0.002	<0.002		
5/26/2004	0.0055	<0.002	<0.002	<0.002	<0.002	<0.002	0.011		
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.038 (O)		
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.036 (O)		
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
4/4/2006			<0.002	<0.002	<0.002				
6/27/2006	0.024 (O)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
8/30/2006			<0.002	<0.002	<0.002				
12/4/2006	0.023 (O)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
2/15/2007			<0.002	<0.002	<0.002				
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
9/11/2007			<0.002	<0.002	<0.002				
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
3/11/2008			<0.002	<0.002	<0.002				
6/23/2008		<0.002							
6/24/2008	0.02 (O)		<0.002	<0.002	<0.002	<0.002	<0.002		
11/3/2008			<0.002	<0.002	<0.002				
12/4/2008		<0.002		<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	<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			
6/21/2010	<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
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
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
4/4/2012			<0.002	<0.002					
7/9/2012		<0.002		<0.002	<0.002	<0.002			
7/10/2012	<0.002		<0.002				<0.002	<0.002	<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			<0.002	<0.002	<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-12	GWC-16	GWC-14	GWC-2	GWB-5R	GWC-22	GWC-20	GWC-21
4/5/2013			<0.002	<0.002					
7/16/2013		<0.002				<0.002			
7/17/2013	<0.002		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
10/11/2013			<0.002	<0.002					
1/13/2014		0.004			<0.002	<0.002			
1/14/2014	0.005		<0.002	<0.002			<0.002	<0.002	<0.002
4/3/2014			<0.002	<0.002					
7/8/2014		<0.002							
7/9/2014	<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							<0.002	
1/13/2015		<0.002			<0.002	<0.002			
1/14/2015			<0.002	<0.002			<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					<0.002
7/18/2015							<0.002	<0.002	
10/6/2015									
1/17/2016			<0.002	<0.002	<0.002			<0.002	<0.002
1/18/2016	0.0055 (J)	0.0034 (J)				<0.002	<0.002		
1/19/2016									
4/26/2016			<0.002	<0.002					
7/26/2016									
7/27/2016		0.0001 (J)		<0.002	<0.002	<0.002			
7/28/2016			<0.002					<0.002	<0.002
7/29/2016	0.003 (J)						0.0004 (J)		
8/30/2016						<0.002			
8/31/2016		0.0001 (J)			<0.002		0.0003 (J)		
9/1/2016	0.0166 (O)		<0.002	<0.002				<0.002	<0.002
10/24/2016									
10/25/2016			0.0002 (J)	<0.002				0.0001 (J)	<0.002
10/26/2016	0.0057	0.0001 (J)			<0.002	0.0002 (J)	0.0003 (J)		
10/27/2016									
1/3/2017						0.0001 (J)			
1/4/2017		<0.002	0.0001 (J)				0.0003 (J)	<0.002	<0.002
1/5/2017				<0.002	<0.002				
1/6/2017	0.0053								
4/3/2017									
4/4/2017	0.0092			0.0001 (J)	0.0002 (J)			7E-05 (J)	9E-05 (J)
4/5/2017		0.0003 (J)	0.0002 (J)						
4/6/2017						0.0003 (J)	0.0003 (J)		
7/10/2017		0.0003 (J)							
7/11/2017				8E-05 (J)			0.0002 (J)	<0.002	
7/12/2017	0.006		0.0001 (J)			0.0002 (J)			
7/13/2017					0.0003 (J)				7E-05 (J)
10/2/2017				0.0001 (J)				<0.002	
10/3/2017			0.0001 (J)		<0.002	0.0002 (J)			0.0001 (J)
10/4/2017	0.0057	0.0001 (J)					0.0008 (J)		
1/9/2018				<0.002					9E-05 (J)
1/10/2018			0.0002 (J)		8E-05 (J)	0.0003 (J)		0.0002 (J)	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-12	GWC-16	GWC-14	GWC-2	GWB-5R	GWC-22	GWC-20	GWC-21
1/11/2018	0.0085	0.0002 (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	0.0029 (J)	<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
3/27/2019		<0.002					0.00047 (J)		
7/30/2019					0.0002 (J)				
8/26/2019									
8/27/2019	0.001 (J)	<0.002		0.00051 (J)	<0.002		0.003 (J)		
8/28/2019			0.0001 (J)			0.0011 (J)		6.5E-05 (J)	0.00018 (J)
10/7/2019									
10/8/2019			0.0001 (J)	<0.002					0.00016 (J)
10/9/2019	0.00041 (J)	6.6E-05 (J)			6.4E-05 (J)	0.0025 (J)	0.00032 (J)	0.00018 (J)	
4/6/2020									
4/7/2020	0.00073 (J)	8.1E-05 (J)	0.00023 (J)	<0.002		0.0014 (J)	0.00067 (J)		<0.002
4/8/2020					<0.002			<0.002	
8/17/2020		4.9E-05 (J)							
8/18/2020			0.00017 (J)	<0.002	<0.002		0.00072 (J)	<0.002	0.00027 (J)
8/19/2020	0.00048 (J)					7.9E-05 (J)			
9/28/2020									
9/29/2020		3.7E-05 (J)		<0.002	<0.002				
9/30/2020			9.1E-05 (J)			0.0012 (J)	0.00023 (J)	<0.002	5.4E-05 (J)
10/1/2020	0.00026 (J)								
3/10/2021	0.0003 (J)	6.8E-05 (J)				5.2E-05 (J)	0.00016 (J)		
3/11/2021									
3/12/2021								<0.002	
3/15/2021					4.1E-05 (J)				
3/16/2021			7.3E-05 (J)	<0.002					<0.002
9/21/2021	<0.002	<0.002				<0.002	<0.002		
9/22/2021			<0.002	<0.002	<0.002			<0.002	<0.002
9/23/2021									
1/31/2022									
2/1/2022			<0.002					<0.002	<0.002
2/2/2022	<0.002			<0.002	<0.002				
2/3/2022		<0.002				<0.002	<0.002		
8/30/2022	<0.002	<0.002		<0.002		<0.002		<0.002	<0.002
8/31/2022							<0.002		
9/1/2022			<0.002		<0.002				
1/31/2023									
2/1/2023		<0.002	<0.002			<0.002		<0.002	
2/2/2023	<0.002			<0.002	<0.002		<0.002		<0.002
8/28/2023									
8/29/2023	<0.002				<0.002	<0.002	0.000511 (J)		
9/6/2023		<0.002	<0.002	<0.002				<0.002	<0.002
9/7/2023									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:50 PM 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	GWC-14	GWA-8 (bg)	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	0.052	<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	<0.005	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	0.023	<0.005	<0.005
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		<0.005	
6/24/2008		<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	<0.005	
12/5/2008		<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				<0.005	
7/8/2009					<0.005	<0.005	0.021		<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	<0.005
6/21/2010									
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	<0.005
1/18/2012			<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	<0.005	0.04 (O)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:50 PM 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	GWC-14	GWA-8 (bg)	GWC-15
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	<0.005	
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	<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							0.00428 (J)	<0.005	
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		0.0044 (J)	<0.005	<0.005
7/12/2017		<0.005	<0.005	0.0024 (J)					
7/13/2017	0.0118								
10/2/2017							0.004 (J)	<0.005	<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				0.0019 (J)	<0.005	0.0019 (J)
1/10/2018		<0.005		0.0018 (J)					

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:50 PM 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	GWC-14	GWA-8 (bg)	GWC-15
1/11/2018					0.0054 (J)	<0.005			
7/9/2018							0.0029 (J)	<0.005	
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)			0.0016 (J)	<0.005	
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	0.00544	<0.005	
8/31/2022					0.00344 (J)				0.00192 (J)
9/1/2022				0.00252 (J)					
1/31/2023	0.00443 (J)							<0.005	
2/1/2023		0.00187 (J)	0.00182 (J)		0.00333 (J)	<0.005			
2/2/2023				0.0022 (J)			0.0035 (J)		<0.005
8/28/2023	0.00544							<0.005	
8/29/2023		<0.005	0.00204 (J)	0.00182 (J)					
9/6/2023					0.0036 (J)	<0.005	0.00516		
9/7/2023									<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-22	GWC-20	GWC-21
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	<0.005	0.048
9/14/2010	<0.005							
1/6/2011					<0.005			
1/7/2011	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0.014
4/15/2011	<0.005							
7/7/2011	<0.005						<0.005	
7/8/2011		<0.005	<0.005	<0.005		<0.005	<0.005	0.018
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	<0.005	0.02
10/9/2012	<0.005							
1/17/2013					<0.005			
1/18/2013	<0.005	<0.005	<0.005	<0.005		<0.005	0.005	0.015

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-22	GWC-20	GWC-21
4/5/2013	<0.005							
7/16/2013								
7/17/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037
10/11/2013	0.0069							
1/13/2014					<0.005			
1/14/2014	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0.043
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			<0.005		0.022
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)					<0.005	0.0014 (J)	0.022
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 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-16	GWC-17	GWC-9	GWB-4R	GWC-2	GWC-22	GWC-20	GWC-21
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)		<0.005		0.012
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	<0.005	0.013
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	<0.005	0.0061 (J)
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			
1/31/2023								
2/1/2023	<0.005	<0.005	<0.005				<0.005	
2/2/2023				0.00466 (J)	<0.005	<0.005		0.00542
8/28/2023								
8/29/2023		<0.005	<0.005	0.00261 (J)	<0.005	<0.005		
9/6/2023	0.00161 (J)						<0.005	0.00554
9/7/2023								

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-9	GWB-4R	GWB-6R	GWC-15	GWC-11	GWC-14	GWC-16
9/29/2000	<0.02	0.038	<0.02	0.06	0.12	<0.02	<0.02	<0.02	<0.02
11/21/2000	<0.02	0.013	<0.02	0.068	0.13	<0.02	<0.02	<0.02	<0.02
1/20/2001	<0.02	0.038	<0.02	0.12	0.14	<0.02	<0.02	<0.02	<0.02
3/14/2001	<0.02	0.077 (O)	<0.02	0.08	0.13	<0.02	<0.02	<0.02	<0.02
7/16/2001	<0.02	0.12 (O)	<0.02	0.11	0.18	<0.02	<0.02	<0.02	<0.02
11/1/2001	<0.02	0.21 (O)	<0.02	0.079	0.12	<0.02	<0.02	<0.02	<0.02
4/25/2002	<0.02	0.086 (O)	<0.02	0.11	0.15	<0.02	<0.02	<0.02	<0.02
11/20/2002		0.14 (O)	0.014	0.15	0.15	0.0099	0.0071	0.03	0.0069
6/6/2003	0.047	0.12 (O)	<0.02	0.12	0.11	0.019 (O)	0.0098	0.0065	0.082 (O)
12/12/2003	0.0086	0.014	<0.02	0.13	0.089	0.018 (O)	0.0074	0.0052	0.012
5/26/2004	<0.02	0.06 (O)	<0.02	0.095	0.09	<0.02	<0.02	<0.02	<0.02
12/7/2004	<0.02	0.054	<0.02	0.067	0.072	<0.02	<0.02	0.0074	<0.02
6/21/2005	<0.02	0.038	<0.02	0.062	0.04	<0.02	<0.02	0.01	<0.02
12/12/2005	<0.02	0.0056	<0.02	0.09	0.021	<0.02	<0.02	<0.02	<0.02
4/4/2006								0.013	<0.02
6/27/2006	<0.02	0.0043	<0.02	0.083	0.02	<0.02	<0.02	<0.02	<0.02
8/30/2006								0.0039	<0.02
12/4/2006	0.0027	0.0044	<0.02	0.084	0.022	<0.02	<0.02	0.016	0.0031
2/15/2007								0.017	0.0025
6/23/2007	0.0027	0.0039	<0.02	0.081	0.027	<0.02	0.0036	0.0076	0.0032
9/11/2007								0.012	<0.02
12/11/2007	0.0033	0.0029	<0.02	0.067	0.017	<0.02	<0.02	0.017	<0.02
3/11/2008								0.012	<0.02
6/23/2008	0.0074		<0.02				<0.02		
6/24/2008		0.003		0.059	0.053	<0.02		0.0069	<0.02
11/3/2008								0.016	0.0032
12/4/2008	0.0084		<0.02				<0.02	0.013	
12/5/2008		<0.02		0.054	0.0078	<0.02			<0.02
3/25/2009								0.014	<0.02
7/7/2009	0.023	<0.02		0.038	0.012				
7/8/2009			0.0029			<0.02	0.0026	0.014	0.0036
9/14/2009								0.0072	0.0026
12/20/2009	0.007					<0.02		0.02	0.0031
12/21/2009		<0.02	<0.02	0.06	0.011		<0.02		
3/4/2010								0.023	<0.02
6/20/2010	0.0047	<0.02	<0.02		0.0083	<0.02	<0.02	0.017	
6/21/2010				0.036					0.0025
9/14/2010								0.018	0.0035
1/6/2011		0.0067					0.003		
1/7/2011	0.018		<0.02	0.043	0.0079	<0.02		0.019	0.0036
4/15/2011								0.019	<0.02
7/7/2011	0.019	0.019			0.007	0.0036	0.004	0.014	0.003
7/8/2011			<0.02	0.044					
9/25/2011								0.015	0.0037
1/17/2012	0.0298	0.021				<0.02	<0.02	0.021	
1/18/2012			<0.02	0.045	0.0116				<0.02
4/4/2012								0.0191	<0.02
7/9/2012	0.14	0.032				0.0059	0.005	0.026	
7/10/2012			<0.02	0.048	0.0096				0.0026
10/9/2012								0.049	0.007
1/17/2013		0.034					0.005		
1/18/2013	0.21		<0.02	0.049	<0.02	<0.02		0.036	<0.02

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-9	GWB-4R	GWB-6R	GWC-15	GWC-11	GWC-14	GWC-16
4/5/2013								0.04	<0.02
7/16/2013		0.021					<0.02		
7/17/2013	0.18		<0.02	0.05	<0.02	<0.02		0.062	<0.02
10/11/2013								0.032	<0.02
1/13/2014	0.24	0.008					<0.02		
1/14/2014			<0.02	0.067	<0.02			0.044	<0.02
4/3/2014								0.077 (O)	0.0032 (J)
7/8/2014							0.0024 (J)		
7/9/2014	0.22	0.0052	0.0016 (J)	0.055	0.0039 (J)	0.0012 (J)		0.032	0.0031 (J)
7/10/2014									
10/24/2014								0.045	0.0028 (J)
1/12/2015				0.066					
1/13/2015	0.19	0.0036 (J)				0.0013 (J)	0.0023 (J)		
1/14/2015			<0.02		0.005			0.031	0.0034 (J)
5/10/2015								0.013	
5/11/2015									0.0026 (J)
7/16/2015	0.23	0.004 (J)		0.045		<0.02	0.002 (J)		0.0028 (J)
7/17/2015			0.0029 (J)		0.0045 (J)			0.028	
7/18/2015									
10/6/2015								0.02	0.0016 (J)
1/17/2016						0.0013 (J)		0.028	0.0029 (J)
1/18/2016	0.41	0.0069	<0.02	0.049	0.0044 (J)				
1/19/2016							0.0025 (J)		
4/26/2016								0.0181	0.00296 (J)
7/26/2016							0.0027 (J)		
7/27/2016	0.397	0.0046 (J)				<0.02		0.0189	
7/28/2016			<0.02		0.0038 (J)				0.0026 (J)
7/29/2016				0.0388					
10/24/2016									
10/25/2016	0.425					<0.02		0.0206	<0.02
1/3/2017		<0.02							
1/4/2017							<0.02		<0.02
1/5/2017					0.0077 (J)	<0.02		0.0172	
1/6/2017	0.41		<0.02	0.0341					
4/3/2017						0.002 (J)			
4/4/2017				0.0371				0.0235	
4/5/2017									0.0033 (J)
4/6/2017	0.297	0.0063 (J)	<0.02		0.0069 (J)		0.0025 (J)		
7/10/2017									
7/11/2017						0.0022 (J)	0.0027 (J)	0.0136	
7/12/2017		0.0064 (J)	0.0013 (J)	0.0399	0.0098 (J)				0.0037 (J)
7/13/2017	0.194								
10/2/2017						0.0022 (J)		0.0175	
10/3/2017									0.0036 (J)
10/4/2017	0.316								
1/9/2018	0.194				0.0086 (J)	0.0021 (J)		0.0103	
1/10/2018		0.0077 (J)							0.0029 (J)
1/11/2018			<0.02	0.0327			0.0019 (J)		
7/9/2018								0.0078 (J)	
7/10/2018		0.016			0.0098 (J)	0.0025 (J)			0.0025 (J)
7/11/2018	0.15		<0.02	0.02			0.0021 (J)		
1/16/2019	0.16	0.0033 (J)		0.0022 (J)	0.077			0.0043 (J)	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-9	GWB-4R	GWB-6R	GWC-15	GWC-11	GWC-14	GWC-16
1/17/2019						<0.02	0.0021 (J)		0.0021 (J)
1/18/2019			<0.02						
1/21/2019									
3/25/2019	0.18			0.004 (J)					
3/26/2019		0.0058 (J)			0.086	0.0026 (J)		0.0063 (J)	0.0038 (J)
3/27/2019			<0.02				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		0.033 (J)	<0.02	<0.02	0.018 (J)				
4/6/2020	0.12								
4/7/2020		0.0053 (J)		0.0037 (J)	0.041 (J)	<0.02	<0.02	0.0026 (J)	<0.02
4/8/2020			0.0015 (J)						
9/28/2020	0.1								
9/29/2020							0.0023 (J)	<0.02	
9/30/2020		0.0037 (J)			0.018	0.0028 (J)			0.0028 (J)
10/1/2020			<0.02	0.0047 (J)					
3/10/2021		0.0026 (J)	<0.02	0.0054 (J)	0.027		0.0023 (J)		
3/11/2021	0.14								
3/12/2021						0.0037 (J)			
3/15/2021									
3/16/2021								<0.02	0.0034 (J)
9/21/2021	0.096	0.0039 (J)		0.0027 (J)	0.015		0.002 (J)		
9/22/2021			<0.02					0.0052 (J)	0.0025 (J)
9/23/2021						0.0022 (J)			
1/31/2022	0.1								
2/1/2022									0.0021 (J)
2/2/2022			<0.02	0.0031 (J)	0.0099 (J)			0.004 (J)	
2/3/2022		0.0046 (J)				0.0023 (J)	0.0031 (J)		
8/30/2022	0.11	0.0138 (J)		0.00943 (J)	0.0192 (J)			0.00933 (J)	
8/31/2022						0.00476 (J)	0.00481 (J)		
9/1/2022			0.00514 (J)						0.0065 (J)
1/31/2023	0.106								
2/1/2023		0.0255	<0.02		0.0201		0.00373 (J)		0.00361 (J)
2/2/2023				0.021		0.00453 (J)		0.00594 (J)	
8/28/2023	0.137								
8/29/2023		0.00917 (J)	0.0103 (J)	0.0201	0.0226				
9/6/2023							0.00685 (J)	0.00671 (J)	0.00631 (J)
9/7/2023						0.00462 (J)			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWA-8 (bg)	GWC-12	GWC-17	GWC-13	GWC-2	GWC-21	GWC-22	GWC-20
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02				
11/21/2000	<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	0.0069	<0.02	<0.02	<0.02	<0.02	<0.02			
6/6/2003	0.16 (O)	0.017	<0.02	<0.02	0.0063	<0.02			
12/12/2003	<0.02	0.011	<0.02	<0.02	<0.02	<0.02			
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
12/7/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
6/21/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
12/12/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
4/4/2006		<0.02							
6/27/2006	0.0029	<0.02	<0.02	0.0025	<0.02	<0.02			
8/30/2006		<0.02							
12/4/2006	0.0047	<0.02	<0.02	<0.02	<0.02	<0.02			
2/15/2007		<0.02							
6/23/2007	0.0029	<0.02	<0.02	<0.02	<0.02	<0.02			
9/11/2007		<0.02							
12/11/2007	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
3/11/2008		<0.02							
6/23/2008		<0.02	<0.02		<0.02				
6/24/2008	<0.02			<0.02		<0.02			
11/3/2008		<0.02							
12/4/2008		<0.02	<0.02		<0.02	<0.02			
12/5/2008	<0.02			<0.02					
3/25/2009		<0.02							
7/7/2009	<0.02	<0.02							
7/8/2009			<0.02	<0.02	<0.02	<0.02			
9/14/2009		<0.02							
12/20/2009	<0.02	<0.02				<0.02			
12/21/2009			<0.02	<0.02	<0.02				
3/4/2010		<0.02							
6/20/2010	0.0037	<0.02	<0.02		<0.02	<0.02			
6/21/2010				<0.02		<0.02	<0.02	<0.02	<0.02
9/14/2010		<0.02							
1/6/2011	<0.02				0.0028	<0.02			
1/7/2011		<0.02	<0.02	<0.02			0.0031	<0.02	0.0029
4/15/2011		<0.02							
7/7/2011	0.0045	<0.02	<0.02		<0.02				<0.02
7/8/2011				0.0031		0.0048	<0.02		0.0046
9/25/2011		<0.02							
1/17/2012	<0.02	<0.02	<0.02		<0.02	<0.02			
1/18/2012				<0.02		<0.02	<0.02	<0.02	<0.02
4/4/2012		<0.02							
7/9/2012	0.0026		<0.02		<0.02	<0.02			
7/10/2012		<0.02		<0.02		<0.02	<0.02	<0.02	0.0081
10/9/2012		<0.02							
1/17/2013	<0.02		<0.02		<0.02	<0.02			
1/18/2013		<0.02		<0.02		<0.02	<0.02	<0.02	0.0063

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWA-8 (bg)	GWC-12	GWC-17	GWC-13	GWC-2	GWC-21	GWC-22	GWC-20
4/5/2013		<0.02							
7/16/2013	<0.02		<0.02		<0.02				
7/17/2013		<0.02		<0.02		<0.02	<0.02	<0.02	<0.02
10/11/2013		<0.02							
1/13/2014	<0.02		<0.02		<0.02	<0.02			
1/14/2014		<0.02		<0.02			0.006	<0.02	<0.02
4/3/2014		0.0015 (J)							
7/8/2014			0.0034 (J)		0.002 (J)				
7/9/2014	0.0041 (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									0.0031 (J)
1/13/2015	0.0029 (J)		<0.02		0.0015 (J)	<0.02			
1/14/2015		<0.02		0.002 (J)			0.0037 (J)	0.0013 (J)	
5/10/2015		<0.02							
5/11/2015									
7/16/2015	0.0034 (J)		0.0049 (J)		<0.02	<0.02			
7/17/2015		<0.02					0.0028 (J)		
7/18/2015				<0.02				0.0043 (J)	0.003 (J)
10/6/2015		0.0012 (J)							
1/17/2016	0.0046 (J)					<0.02	0.0039 (J)		0.0025 (J)
1/18/2016		0.00079 (J)	0.0058	0.0019 (J)	0.0011 (J)			<0.02	
1/19/2016									
4/26/2016		<0.02							
7/26/2016					<0.02				
7/27/2016	0.0064 (J)		0.0058 (J)			<0.02			
7/28/2016		<0.02					0.0022 (J)		0.0024 (J)
7/29/2016				0.0031 (J)				0.0052 (J)	
10/24/2016		<0.02							
10/25/2016									<0.02
1/3/2017		<0.02							
1/4/2017	<0.02		<0.02				<0.02	<0.02	<0.02
1/5/2017				<0.02	<0.02	<0.02			
1/6/2017									
4/3/2017		<0.02							
4/4/2017	0.0061 (J)					<0.02	0.003 (J)		0.0024 (J)
4/5/2017			0.0039 (J)	0.0029 (J)					
4/6/2017					<0.02			<0.02	
7/10/2017			0.0062 (J)						
7/11/2017		<0.02						0.0016 (J)	0.003 (J)
7/12/2017	0.0067 (J)				0.0016 (J)				
7/13/2017				0.0037 (J)		<0.02	0.0019 (J)		
10/2/2017		<0.02							0.0028 (J)
10/3/2017									
10/4/2017									
1/9/2018		0.0014 (J)					0.0046 (J)		
1/10/2018	0.0056 (J)				0.0019 (J)	<0.02			0.0026 (J)
1/11/2018			0.0025 (J)	0.0026 (J)				0.0012 (J)	
7/9/2018		<0.02							<0.02
7/10/2018	0.0056 (J)					<0.02	0.0031 (J)		
7/11/2018			0.0059 (J)	0.0032 (J)	0.0097 (J)			0.0025 (J)	
1/16/2019	0.0043 (J)	<0.02		<0.02	<0.02				

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWA-8 (bg)	GWC-12	GWC-17	GWC-13	GWC-2	GWC-21	GWC-22	GWC-20
1/17/2019			<0.02				0.0022 (J)		
1/18/2019								<0.02	
1/21/2019						0.0024 (J)			0.0031 (J)
3/25/2019		<0.02							0.0024 (J)
3/26/2019	0.0051 (J)			0.0024 (J)	0.0029 (J)		0.0041 (J)		
3/27/2019			0.0049 (J)					0.002 (J)	
7/30/2019						<0.02			
10/7/2019		<0.02							
10/8/2019					<0.02		<0.02		
10/9/2019	<0.02		0.0021 (J)	<0.02		<0.02		<0.02	<0.02
4/6/2020		<0.02							
4/7/2020	0.0015 (J)		0.0024 (J)				<0.02	0.0014 (J)	
4/8/2020				<0.02	<0.02	<0.02			<0.02
9/28/2020	0.0042 (J)	<0.02			<0.02				
9/29/2020			0.0046 (J)			<0.02			
9/30/2020				<0.02			0.0029 (J)	<0.02	0.0029 (J)
10/1/2020									
3/10/2021	0.005 (J)		0.0055 (J)					<0.02	
3/11/2021				<0.02					
3/12/2021		<0.02							0.0038 (J)
3/15/2021					<0.02	<0.02			
3/16/2021							0.003 (J)		
9/21/2021		<0.02	0.0051 (J)		<0.02			<0.02	
9/22/2021				<0.02		<0.02	<0.02		0.0033 (J)
9/23/2021	0.0042 (J)								
1/31/2022		<0.02							
2/1/2022				0.0022 (J)			0.0036 (J)		0.0039 (J)
2/2/2022						<0.02			
2/3/2022	0.0028 (J)		0.0052 (J)		<0.02			<0.02	
8/30/2022		0.00372 (J)	0.00949 (J)				0.00715 (J)		0.00647 (J)
8/31/2022				0.00599 (J)	<0.02			0.00396 (J)	
9/1/2022	0.00748 (J)					0.0045 (J)			
1/31/2023		<0.02							
2/1/2023			0.0056 (J)	0.005 (J)	<0.02				0.00526 (J)
2/2/2023	0.00497 (J)					<0.02	0.00537 (J)	<0.02	
8/28/2023		0.0148 (J)							
8/29/2023	0.0146 (J)			0.0108 (J)	0.0188 (J)	0.00777 (J)		0.0353	
9/6/2023			0.0101 (J)				0.0101 (J)		0.00768 (J)
9/7/2023									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-11	GWC-9	GWC-17	GWC-13	GWC-14	GWC-16	GWC-1
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	<0.02	<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	<0.02	<0.02	<0.02	<0.02
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	0.044 (O)	<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	<0.02	0.033 (O)	0.014	0.023	<0.02	<0.02	<0.02
6/6/2003	0.69 (O)	0.032	<0.02	<0.02	0.012	<0.02	<0.02	0.035 (O)	0.011
12/12/2003	0.12	0.019	0.013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
5/26/2004	0.013	<0.02	<0.02	<0.02	<0.02	0.035	<0.02	<0.02	<0.02
12/7/2004	<0.02	<0.02	0.028 (O)	<0.02	<0.02	0.018	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.02	<0.02	<0.02	<0.02	0.014	<0.02	<0.02	<0.02
12/12/2005	0.014	0.01	<0.02	0.032 (O)	<0.02	0.023	0.011	<0.02	<0.02
4/4/2006		<0.02					<0.02	<0.02	
6/27/2006	0.01	0.0043	0.0028	0.018 (O)	0.0046	0.023	0.0045	0.077 (O)	<0.02
8/30/2006		0.017					<0.02	0.0027	
12/4/2006	0.0065	0.0053	0.0028	0.0044	0.0071	0.046 (O)	<0.02	<0.02	<0.02
2/15/2007		0.0045					<0.02	0.0032	
6/23/2007	0.0049	0.0043	0.0063	0.0041	0.005	0.036	<0.02	0.0058	<0.02
9/11/2007		0.004					<0.02	0.0033	
12/11/2007	0.0043	0.0048	<0.02	0.0039	0.0033	0.011	<0.02	<0.02	<0.02
3/11/2008		0.0043					<0.02	<0.02	
6/23/2008	0.0025	0.0037	<0.02	<0.02		0.0091			
6/24/2008					0.0037		<0.02	<0.02	<0.02
11/3/2008		0.0032					<0.02	0.0025	
12/4/2008	0.0025	0.0029	<0.02	0.0039		0.0038	<0.02		
12/5/2008					0.0027			<0.02	<0.02
3/25/2009		0.0055					<0.02	0.0025	
7/7/2009	<0.02	0.0028							<0.02
7/8/2009			<0.02	<0.02	0.0048	<0.02	<0.02	<0.02	
9/14/2009		0.0027					<0.02	<0.02	
12/20/2009	0.0031	0.0029					<0.02	<0.02	<0.02
12/21/2009			<0.02	0.004	0.0032	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		<0.02
6/21/2010					0.0028			<0.02	
9/14/2010		<0.02					<0.02	<0.02	
1/6/2011			<0.02			0.004			<0.02
1/7/2011	<0.02	0.0032		0.0032	0.003		<0.02	<0.02	
4/15/2011		<0.02					<0.02	<0.02	
7/7/2011	0.0031	0.005	<0.02			0.0037	<0.02	<0.02	0.0025
7/8/2011				0.0025	0.0034				
9/25/2011		0.0041					<0.02	0.0028	
1/17/2012	0.004	0.0043	0.0043			0.0031	<0.02		<0.02
1/18/2012				0.0045	0.0049			0.0029	
4/4/2012		<0.02					<0.02	<0.02	
7/9/2012	0.0096		<0.02			0.003	<0.02		<0.02
7/10/2012		0.0028		<0.02	0.0039			<0.02	
10/9/2012		0.0033					<0.02	0.0027	
1/17/2013			0.0025			<0.02			<0.02
1/18/2013	0.051	0.0038		0.0029	0.0043		<0.02	<0.02	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-11	GWC-9	GWC-17	GWC-13	GWC-14	GWC-16	GWC-1
4/5/2013		0.0026					<0.02	<0.02	
7/16/2013			<0.02			0.0029			<0.02
7/17/2013	0.042	<0.02		<0.02	0.0035		<0.02	<0.02	
10/11/2013		0.0046					<0.02	<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		0.0029					0.0014 (J)	0.0015 (J)	
7/8/2014			0.0011 (J)			0.0018 (J)			
7/9/2014	0.064	0.002 (J)		0.0016 (J)	0.0033		0.00086 (J)	0.0012 (J)	<0.02
7/10/2014									
10/24/2014		0.0031					0.00083 (J)	0.0013 (J)	
1/12/2015									
1/13/2015	0.066		0.0021 (J)			0.0028			0.0025
1/14/2015		0.003		0.0024 (J)	0.0067		<0.02	0.0017 (J)	
5/10/2015		0.0028					<0.02		
5/11/2015								0.0015 (J)	
7/16/2015	0.036		<0.02			0.0018 (J)		<0.02	<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
1/18/2016	0.035	0.0028		0.0059	0.012	0.0017 (J)			
1/19/2016			0.0029						
4/26/2016		<0.02					<0.02	<0.02	
7/26/2016			<0.02			0.0028 (J)			
7/27/2016	0.0529						<0.02		<0.02
7/28/2016		0.0018 (J)		0.0019 (J)				<0.02	
7/29/2016					0.0086 (J)				
10/24/2016		0.0024 (J)							
10/25/2016	0.0035 (J)						<0.02	<0.02	
1/3/2017		0.0035 (J)							
1/4/2017			<0.02					0.0025 (J)	<0.02
1/5/2017					0.016	0.0021 (J)	<0.02		
1/6/2017	0.0235			0.0026 (J)					
4/3/2017		0.0041 (J)							
4/4/2017							<0.02		<0.02
4/5/2017					0.0175			0.0025 (J)	
4/6/2017	0.0829		0.004 (J)	0.0047 (J)		0.0027 (J)			
7/10/2017									
7/11/2017		0.0029 (J)	<0.02				<0.02		
7/12/2017				0.003 (J)		0.0043 (J)		0.002 (J)	<0.02
7/13/2017	0.0853				0.0126				
10/2/2017		0.0026 (J)					0.0026 (J)		
10/3/2017								<0.02	
10/4/2017	0.0263								
1/9/2018	0.0665	0.0035 (J)					0.0018 (J)		
1/10/2018						0.0021 (J)		0.0016 (J)	0.0014 (J)
1/11/2018			0.0018 (J)	0.0046 (J)	0.012				
7/9/2018		0.0022 (J)					<0.02		
7/10/2018								0.0031 (J)	0.0021 (J)
7/11/2018	0.02 (J)		<0.02	0.0033 (J)	0.011	0.0039 (J)			
1/16/2019	0.014 (J)	0.0037 (J)			0.0094 (J)	0.047	<0.02		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWC-11	GWC-9	GWC-17	GWC-13	GWC-14	GWC-16	GWC-1
1/17/2019			<0.02					<0.02	
1/18/2019				0.0025 (J)					
1/21/2019									
3/25/2019	<0.05 (O)	<0.02							
3/26/2019					0.0057 (J)	0.03	<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)			0.053	0.0052 (J)	0.01	
10/9/2019				0.0054 (J)	0.011				0.0057 (J)
4/6/2020	<0.02	<0.02							
4/7/2020			<0.02				<0.02	<0.02	<0.02
4/8/2020				<0.02	<0.02	0.023			
9/28/2020	0.16	0.0092 (J)				0.016			0.0092 (J)
9/29/2020			0.0031 (J)				<0.02		
9/30/2020					0.0043 (J)			0.0051 (J)	
10/1/2020				0.025					
3/10/2021			<0.02	<0.02					<0.02
3/11/2021	0.054				0.0056 (J)				
3/12/2021		0.0028 (J)							
3/15/2021						0.039			
3/16/2021							<0.02	<0.02	
9/21/2021	<0.02	<0.02	<0.02			0.036			
9/22/2021				<0.02	<0.02		0.01	<0.02	
9/23/2021									<0.02
1/31/2022	<0.02	<0.02							
2/1/2022					0.011			<0.02	
2/2/2022				<0.02			<0.02		
2/3/2022			<0.02			0.037			<0.02
8/30/2022	0.011 (J)	<0.02					<0.02		
8/31/2022			<0.02		0.0068 (J)	0.0266			
9/1/2022				0.0163 (J)				0.0119 (J)	0.00578 (J)
1/31/2023	0.00457 (J)	<0.02							
2/1/2023			<0.02	<0.02	0.00583 (J)	0.025		<0.02	
2/2/2023							<0.02		<0.02
8/28/2023	0.00851 (J)	<0.02							
8/29/2023				<0.02	0.00535 (J)	0.0194 (J)			<0.02
9/6/2023			0.00479 (J)				<0.02	<0.02	
9/7/2023									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWB-4R	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	0.041	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	0.059	0.08 (O)	<0.02	0.053 (O)	<0.02 (O)			
11/1/2001	<0.02	<0.02	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	0.061	0.14 (O)	<0.02	0.045 (O)	0.028 (O)			
6/6/2003	<0.02	0.041	0.51 (O)	<0.02	0.042 (O)	0.032 (O)			
12/12/2003	<0.02	0.012	<0.02	<0.02	<0.02	<0.01 (O)			
5/26/2004	<0.02	0.016	0.036 (O)	<0.02	<0.02	<0.01 (O)			
12/7/2004	<0.02	<0.02	0.069 (O)	<0.02	<0.02	0.012 (O)			
6/21/2005	<0.02	<0.02	0.076 (O)	<0.02	<0.02	<0.01 (O)			
12/12/2005	0.064 (O)	0.017	<0.02	0.012	<0.02	<0.01 (O)			
4/4/2006									
6/27/2006	0.011	0.11	0.01	<0.02	0.012 (O)	0.0071			
8/30/2006									
12/4/2006	0.0033	0.086	0.0035	<0.02	0.0067	0.0096			
2/15/2007									
6/23/2007	0.0029	0.076	0.0032	<0.02	0.025 (O)	0.094 (O)			
9/11/2007									
12/11/2007	<0.02	0.087	0.0079	<0.02	0.0038	0.042 (O)			
3/11/2008									
6/23/2008					0.0051				
6/24/2008	<0.02	0.062	<0.02	<0.02		0.098 (O)			
11/3/2008									
12/4/2008				<0.02	<0.02				
12/5/2008	<0.02	0.014	<0.02			0.047 (O)			
3/25/2009									
7/7/2009		0.052	<0.02			0.024 (O)			
7/8/2009	<0.02			<0.02	<0.02				
9/14/2009									
12/20/2009	<0.02			<0.02					
12/21/2009		0.046	<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		0.045					<0.02	<0.02	0.04 (O)
9/14/2010									
1/6/2011			<0.02	<0.02					
1/7/2011	<0.02	0.024			0.004	0.0044	<0.02	0.019	<0.02
4/15/2011									
7/7/2011	<0.02		0.0027		0.0028	0.003	<0.02		
7/8/2011		0.023					0.086 (JO)	0.1 (O)	0.0044
9/25/2011									
1/17/2012	<0.02		0.0039	<0.02	0.0043				
1/18/2012		0.011				0.0048	<0.02	0.0051	<0.02
4/4/2012									
7/9/2012	<0.02		<0.02	<0.02	<0.02				
7/10/2012		0.024				<0.02	<0.02	0.01	<0.02
10/9/2012									
1/17/2013			<0.02	<0.02	0.0033				
1/18/2013	<0.02	0.011				0.0028	0.0032	0.0036	<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWB-4R	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-20	GWC-22	GWC-21
4/5/2013									
7/16/2013			0.0032		0.0028				
7/17/2013	<0.02	0.0029		<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					0.002 (J)				
7/9/2014	<0.02	0.0051	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		0.0023 (J)					<0.02		
1/13/2015	<0.02		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	0.0021 (J)	<0.02	<0.02	0.0026				
7/17/2015						<0.02			<0.02
7/18/2015							<0.02	0.014	
10/6/2015									
1/17/2016	<0.02			<0.02			<0.02		<0.02
1/18/2016		0.0092	<0.02		0.0025	0.0029		<0.02	
1/19/2016									
4/26/2016									
7/26/2016									
7/27/2016	<0.02		0.0015 (J)	0.0018 (J)	0.0021 (J)				
7/28/2016						<0.02	<0.02		<0.02
7/29/2016		0.003 (J)						0.0129	
10/24/2016									
10/25/2016	<0.02						<0.02		
1/3/2017			<0.02						
1/4/2017					0.0025 (J)		<0.02	0.006 (J)	<0.02
1/5/2017	<0.02			<0.02		<0.02			
1/6/2017		0.0104							
4/3/2017	<0.02								
4/4/2017		0.0132		0.0015 (J)			<0.02		0.0015 (J)
4/5/2017					0.0026 (J)				
4/6/2017			0.0023 (J)			0.0032 (J)		0.0031 (J)	
7/10/2017					0.0023 (J)				
7/11/2017	<0.02						<0.02	0.0029 (J)	
7/12/2017		0.0046 (J)	<0.02			0.002 (J)			
7/13/2017				0.0014 (J)					0.002 (J)
10/2/2017	<0.02						<0.02		
10/3/2017									
10/4/2017									
1/9/2018	<0.02					0.0036 (J)			0.0016 (J)
1/10/2018			0.0022 (J)	<0.02			0.0034 (J)		
1/11/2018		0.0095 (J)			0.0031 (J)			0.0106	
7/9/2018							<0.02		
7/10/2018	<0.02		<0.02	<0.02		0.0055 (J)			<0.02
7/11/2018		0.0028 (J)			0.0036 (J)			0.0057 (J)	
1/16/2019		0.0052 (J)	<0.02			<0.02			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/17/2023 3:50 PM View: Appendix I
 Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWB-4R	GWB-5R	GWC-2	GWC-12	GWB-6R	GWC-20	GWC-22	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		0.0078 (J)					<0.02		
3/26/2019	<0.02		<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	0.0051 (J)								0.0071 (J)
10/9/2019		0.0064 (J)	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		<0.02	<0.02
4/8/2020				<0.02			<0.02		
9/28/2020									
9/29/2020				0.056	0.0074 (J)				
9/30/2020	0.032		<0.02			<0.02	0.031	<0.02	0.0096 (J)
10/1/2020		0.0064 (J)							
3/10/2021		<0.02	<0.02		<0.02	<0.02		<0.02	
3/11/2021									
3/12/2021	<0.02						<0.02		
3/15/2021				<0.02					
3/16/2021									<0.02
9/21/2021		<0.02	<0.02		<0.02	<0.02		<0.02	
9/22/2021				<0.02			<0.02		<0.02
9/23/2021	<0.02								
1/31/2022									
2/1/2022							<0.02		<0.02
2/2/2022		<0.02		<0.02		<0.02			
2/3/2022	<0.02		<0.02		<0.02			<0.02	
8/30/2022		<0.02	<0.02		0.0262	0.0132 (J)	0.0171 (J)		0.00814 (J)
8/31/2022	0.00395 (J)							<0.02	
9/1/2022				0.0125 (J)					
1/31/2023									
2/1/2023			<0.02		0.00334 (J)	0.0121 (J)	<0.02		
2/2/2023	<0.02	<0.02		<0.02				<0.02	<0.02
8/28/2023									
8/29/2023		<0.02	<0.02	<0.02		0.0406		0.0054 (J)	
9/6/2023					<0.02		<0.02		<0.02
9/7/2023	<0.02								

FIGURE E.

Appendix I Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	-0.0006418	-4.594	-2.58	Yes	55	54.55	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.607	-2.58	Yes	76	92.11	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.006559	8.595	2.58	Yes	56	44.64	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002871	-9.319	-2.58	Yes	75	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-11	0.003084	2.687	2.58	Yes	55	0	n/a	n/a	0.01	NP

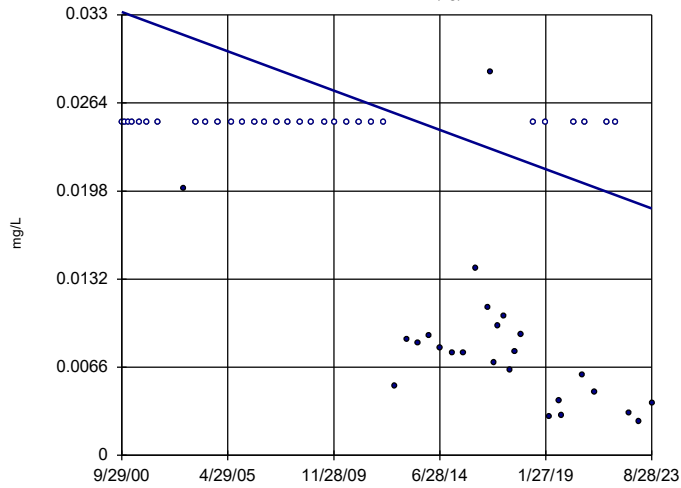
Appendix I Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:13 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>
Arsenic (mg/L)	GWA-7 (bg)	-0.0006418	-4.594	-2.58	Yes	55	54.55	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-2.607	-2.58	Yes	76	92.11	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.006559	8.595	2.58	Yes	56	44.64	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-16	-0.0006685	-1.629	-2.58	No	75	0	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.007858	123	184	No	35	2.857	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-21	0	28	167	No	33	45.45	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0.00006321	0.2765	2.58	No	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002871	-9.319	-2.58	Yes	75	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-11	0.003084	2.687	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.0004912	10	176	No	34	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

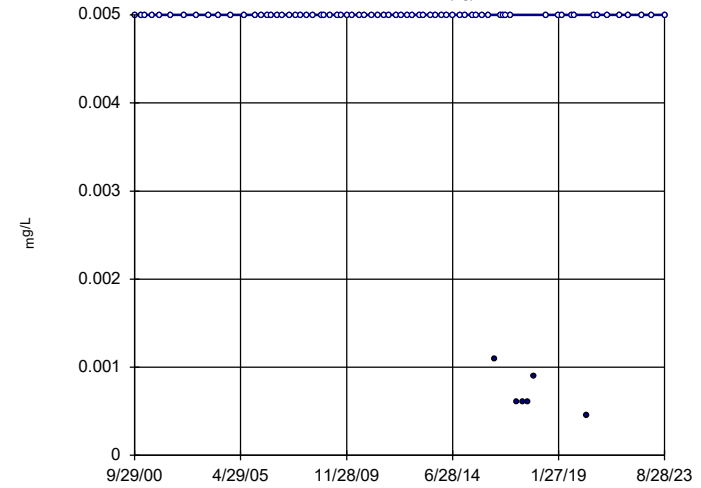


n = 55
Slope = -0.0006418
units per year.
Mann-Kendall
normal approx. =
-4.594
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

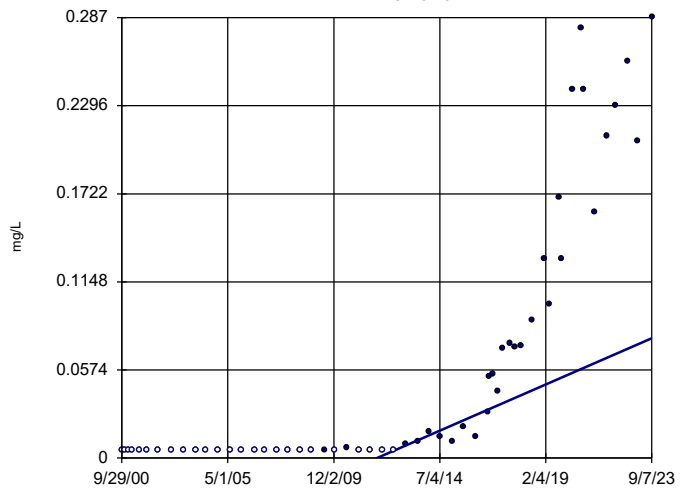


n = 76
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-2.607
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

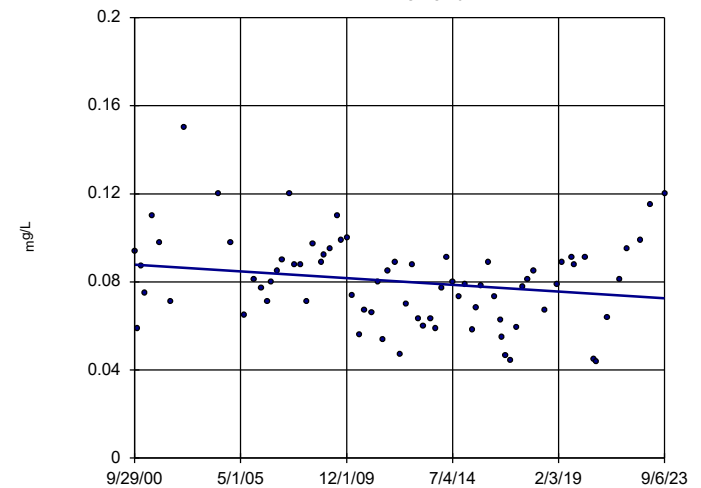


n = 56
Slope = 0.006559
units per year.
Mann-Kendall
normal approx. =
8.595
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

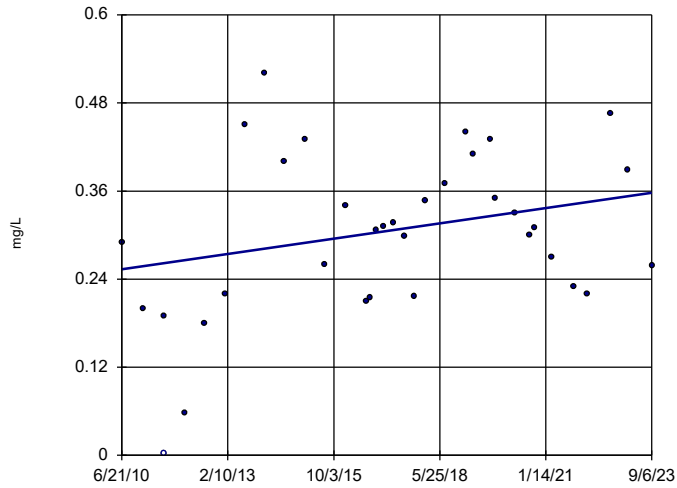


n = 75
Slope = -0.0006685
units per year.
Mann-Kendall
normal approx. =
-1.629
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

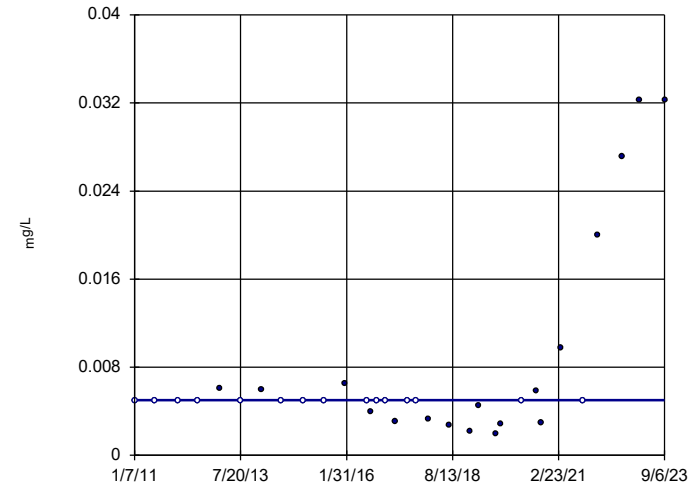


n = 35
Slope = 0.007858
units per year.
Mann-Kendall
statistic = 123
critical = 184
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21

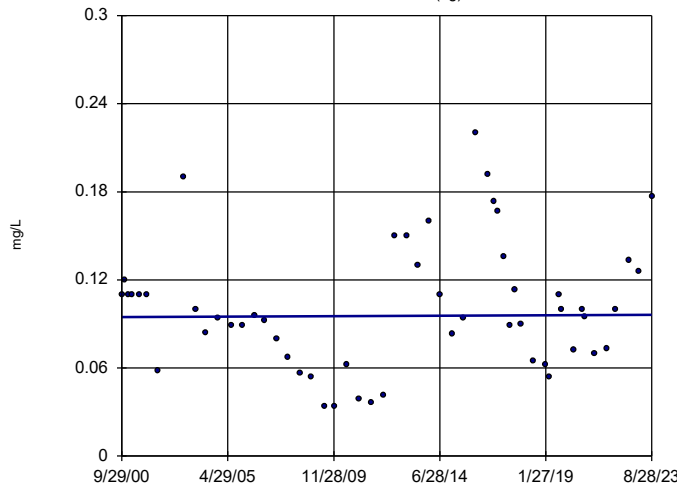


n = 33
Slope = 0
units per year.
Mann-Kendall
statistic = 28
critical = 167
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

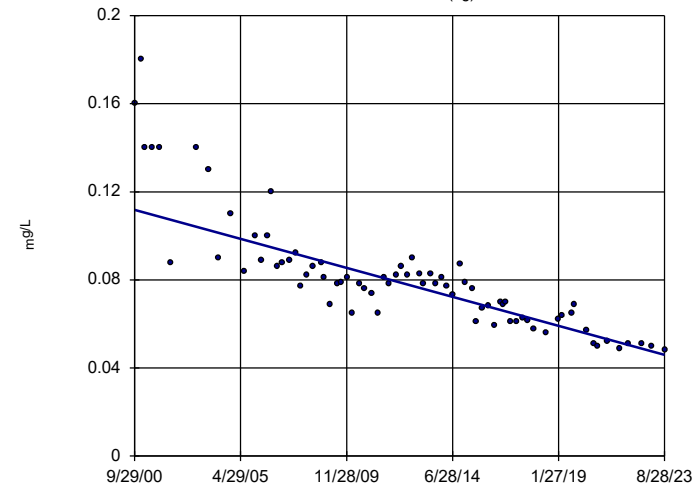


n = 54
Slope = 0.00006321
units per year.
Mann-Kendall
normal approx. =
0.2765
critical = 2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

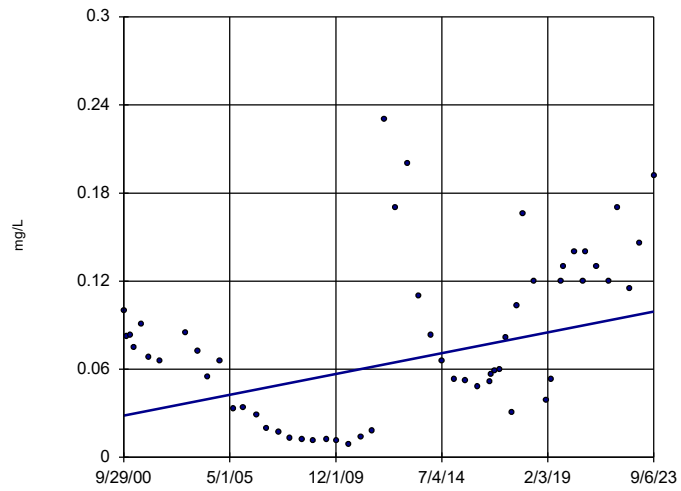


n = 75
Slope = -0.002871
units per year.
Mann-Kendall
normal approx. =
-9.319
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-11

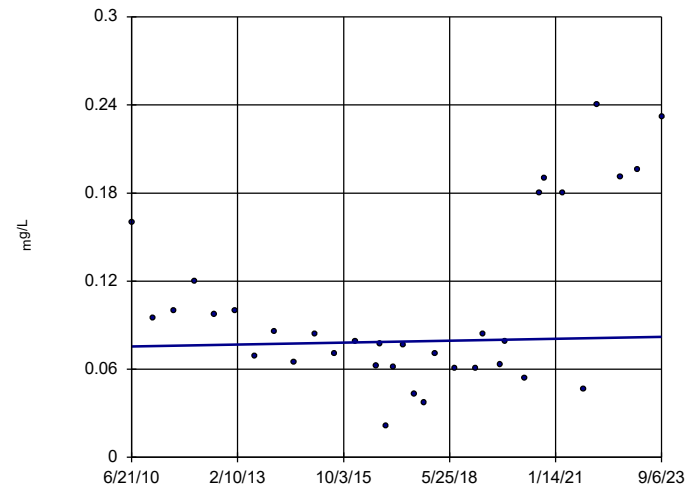


n = 55
Slope = 0.003084
units per year.
Mann-Kendall
normal approx. =
2.687
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 11/20/2023 1:11 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21



n = 34
Slope = 0.0004912
units per year.
Mann-Kendall
statistic = 10
critical = 176
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 11/20/2023 1:11 PM 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 Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWB-4R	35.8	n/a	8/29/2023	133	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/29/2023	46.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/29/2023	120	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/29/2023	53.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	9/6/2023	160	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	9/6/2023	77.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	9/6/2023	145	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	9/7/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/6/2023	311	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/29/2023	86.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	9/6/2023	151	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	9/6/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/29/2023	147	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-17	260	n/a	8/29/2023	476	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/29/2023	521	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/29/2023	0.572	Yes	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	9/7/2023	6.64	Yes	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/29/2023	551	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/29/2023	299	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/29/2023	763	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	9/6/2023	827	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	9/6/2023	437	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	9/6/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/6/2023	1250	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/29/2023	444	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	9/6/2023	460	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	9/6/2023	470	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	8/29/2023	1010	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/29/2023	4.35	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/29/2023	3.69	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/29/2023	5.92	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	8/29/2023	0.653	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	9/6/2023	4.44	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	9/6/2023	9.02	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/29/2023	0.296	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	9/6/2023	0.0433	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	9/7/2023	0.747	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-16	21.8	n/a	9/6/2023	20.4	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-17	21.8	n/a	8/29/2023	1.77	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	8/29/2023	0.0163	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	9/6/2023	11.3	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	9/6/2023	5.6	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/29/2023	9.28	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	8/29/2023	0.016	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/29/2023	133	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	8/29/2023	46.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/29/2023	120	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/29/2023	53.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	9/6/2023	160	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	9/6/2023	77.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	8/29/2023	3.64	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	9/6/2023	145	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	9/7/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	9/6/2023	311	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/29/2023	86.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	8/29/2023	0.165J	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	9/6/2023	151	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	9/6/2023	142	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	8/29/2023	147	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	8/29/2023	4.38	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/29/2023	66	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/29/2023	61.8	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/29/2023	53.2	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	8/29/2023	7.48	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	9/6/2023	98	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	9/6/2023	74.1	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/29/2023	7.34	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	9/6/2023	22.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	9/7/2023	4.46	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	9/6/2023	45.9	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/29/2023	476	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	8/29/2023	4.97	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	9/6/2023	12.2	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	9/6/2023	24.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/29/2023	521	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	8/29/2023	21.1	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	8/29/2023	0.0523J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	8/29/2023	0.0596J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	9/6/2023	0.238	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-15	0.49	n/a	9/7/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/29/2023	0.572	Yes	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.49	n/a	8/29/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	9/6/2023	0.1ND	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	8/29/2023	0.0758J	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	8/29/2023	0.115	No	42	n/a	n/a	23.81	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	8/29/2023	5.82	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	8/29/2023	5.17	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	8/29/2023	5.33	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	8/29/2023	5.68	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2

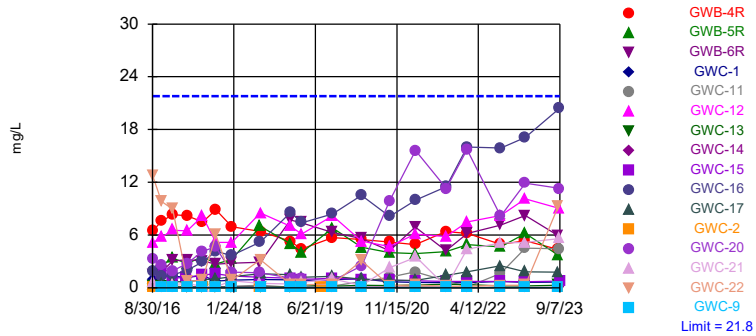
Appendix III - Interwell Prediction Limits - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-11	6.43	4.23	9/6/2023	5.05	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	9/6/2023	4.35	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.23	8/29/2023	4.89	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	9/6/2023	6.19	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	9/7/2023	6.64	Yes	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.23	9/6/2023	5.16	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	8/29/2023	4.66	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	8/29/2023	4.68	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	9/6/2023	5.86	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	9/6/2023	5.78	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	8/29/2023	4.55	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	8/29/2023	4.56	No	40	n/a	n/a	0	n/a	n/a	0.002157	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/29/2023	551	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/29/2023	299	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/29/2023	763	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	8/29/2023	64.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	9/6/2023	827	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	9/6/2023	437	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	8/29/2023	47.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	9/6/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	9/7/2023	46.8	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	9/6/2023	1250	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/29/2023	444	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	8/29/2023	10.5	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	9/6/2023	460	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	9/6/2023	470	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	8/29/2023	1010	Yes	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	8/29/2023	15.7	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	3660	n/a	8/29/2023	1290	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	3660	n/a	8/29/2023	644	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	3660	n/a	8/29/2023	1320	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	3660	n/a	8/29/2023	272	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	3660	n/a	9/6/2023	1330	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	3660	n/a	9/6/2023	686	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	3660	n/a	8/29/2023	62	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	3660	n/a	9/6/2023	594	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	3660	n/a	9/7/2023	471	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	3660	n/a	9/6/2023	1980	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	3660	n/a	8/29/2023	1270	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	3660	n/a	8/29/2023	9J	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	3660	n/a	9/6/2023	924	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	3660	n/a	9/6/2023	826	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	3660	n/a	8/29/2023	2300	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	3660	n/a	8/29/2023	70	No	38	n/a	n/a	0	n/a	n/a	0.001195	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

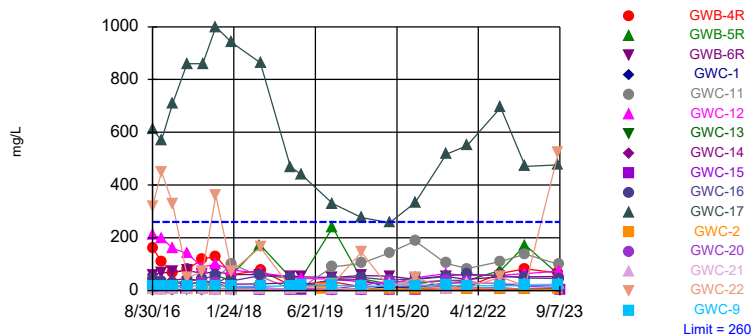


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. Annual per-constituent alpha = 0.03753. Individual comparison alpha = 0.001195 (1 of 2). Comparing 16 points to limit.

Constituent: Boron Analysis Run 11/8/2023 5:31 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

Exceeds Limit: GWC-17, GWC-22

Prediction Limit Interwell Non-parametric

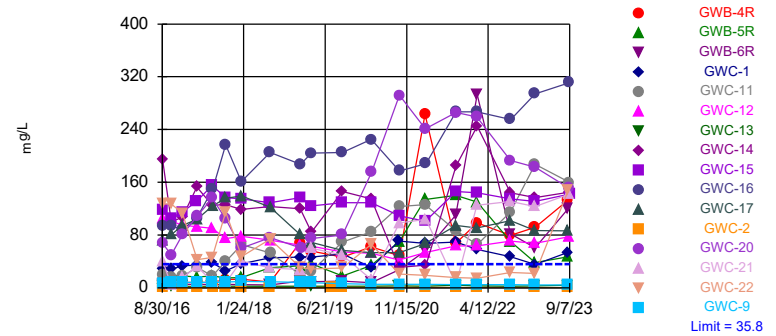


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. Annual per-constituent alpha = 0.03753. Individual comparison alpha = 0.001195 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 11/8/2023 5:31 PM View: Appendix III
Grumman Road Landfill 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

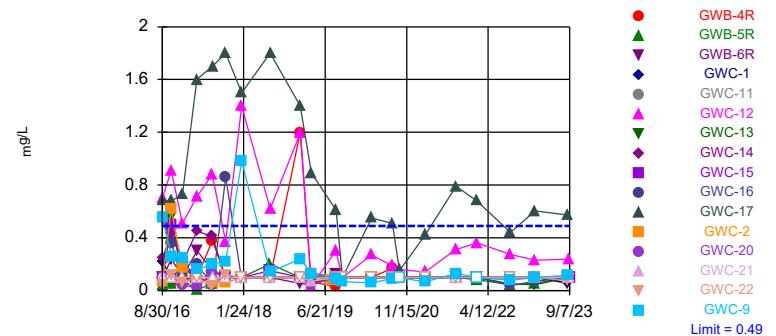


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. Annual per-constituent alpha = 0.03753. Individual comparison alpha = 0.001195 (1 of 2). Comparing 16 points to limit.

Constituent: Calcium Analysis Run 11/8/2023 5:31 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

Hollow symbols indicate censored values.
Exceeds Limit: GWC-17

Prediction Limit Interwell Non-parametric

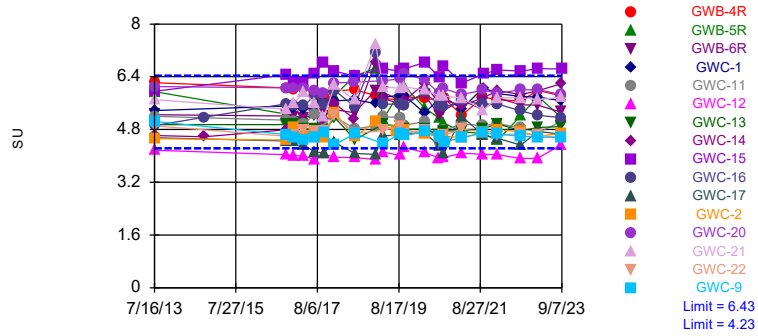


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 23.81% NDs. Annual per-constituent alpha = 0.0317. Individual comparison alpha = 0.001006 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 11/8/2023 5:31 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

Exceeds Limits: GWC-15

Prediction Limit Interwell Non-parametric

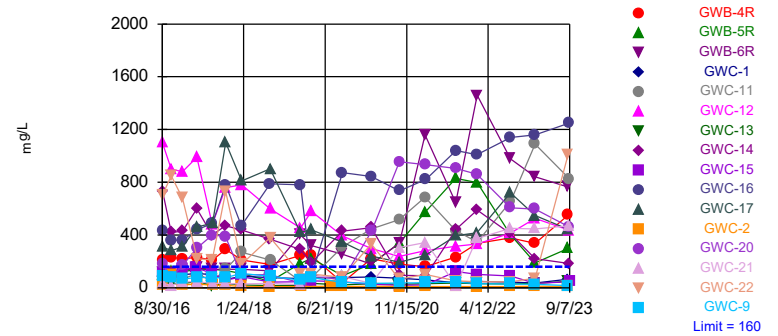


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 40 background values. Annual per-constituent alpha = 0.06789. Individual comparison alpha = 0.002157 (1 of 2). Comparing 16 points to limit.

Constituent: pH Analysis Run 11/8/2023 5:32 PM View: Appendix III
Grumman Road Landfill 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, GWC-22

Prediction Limit Interwell Non-parametric



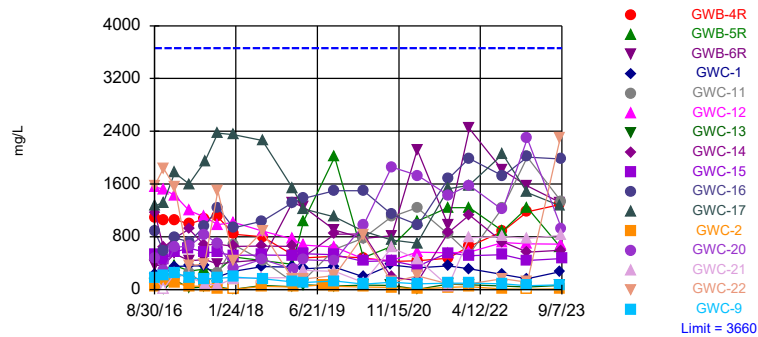
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. Annual per-constituent alpha = 0.03753. Individual comparison alpha = 0.001195 (1 of 2). Comparing 16 points to limit.

Constituent: Sulfate Analysis Run 11/8/2023 5:32 PM View: Appendix III
Grumman Road Landfill 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 38 background values. Annual per-constituent alpha = 0.03753. Individual comparison alpha = 0.001195 (1 of 2). Comparing 16 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/8/2023 5:32 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill Data: Grumman Road Landfill

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-13	GWC-22	GWC-2	GWC-12	GWC-11
8/30/2016	0.875	1.41	1.09	0.117					
8/31/2016					0.261	12.8	0.0196 (J)	5.1	0.0688 (J)
9/1/2016									
10/24/2016				0.126					
10/25/2016	1.22								
10/26/2016		1.83	2.5		0.211	9.81	0.05 (J)	5.74	0.083 (J)
10/27/2016									
1/3/2017			3.39	0.124					
1/4/2017	1.3					8.94		6.56	0.0738
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		0.112	0.733			0.0754
7/10/2017								8.13	
7/11/2017				0.136		0.852			0.0614
7/12/2017	1.37	3.06	3.55		0.0882				
7/13/2017							0.023 (J)		
10/2/2017				0.107					
10/3/2017	0.765	2.69	2.72				0.0266 (J)		0.0838
10/4/2017					0.116	6.05		5.18	
1/9/2018		2.81		0.123					
1/10/2018	0.876		3.21		0.101		0.0203 (J)		
1/11/2018						0.838		5.16	0.169
7/9/2018				0.11					
7/10/2018	0.94	2.9	7				0.026 (J)		
7/11/2018					0.098	3.2		8.5	0.3
1/16/2019	0.91	7.7	5	0.13	0.11				
1/17/2019								7	0.065
1/18/2019						0.37			
1/21/2019							0.018 (J)		
3/25/2019				0.098					
3/26/2019	0.77	7.4	4		0.35				
3/27/2019						0.37		6.1	0.089
7/30/2019							0.02 (J)		
10/7/2019				0.12					
10/8/2019					0.18				0.22
10/9/2019	0.93	6.3	6.8			0.39	0.024 (J)	8.2	
4/6/2020				0.14					
4/7/2020	1	5.6	4.6			3.1		5.3	0.67
4/8/2020					0.28		0.031 (J)		
9/28/2020	0.69			0.15	0.24				
9/29/2020							0.024 (J)	4.7	1.2
9/30/2020		4.2	4			0.25			
10/1/2020									
3/10/2021	0.63	6.9	3.9			0.32		6.1	1.8
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	0.38	0.19		5.8	0.8

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-21	GWC-20	GWC-17	GWC-16	GWC-14	GWB-4R	GWA-7 (bg)	GWC-15	GWC-9
8/30/2016									
8/31/2016									0.096 (JO)
9/1/2016	0.62	3.34	0.408	1.82	0.071 (J)	6.48	11.6	9.01 (O)	
10/24/2016									
10/25/2016	0.0658 (J)	2.54		1.26	0.0819 (J)		21.4	1.66	
10/26/2016			0.5			7.57			
10/27/2016									0.0281 (J)
1/3/2017									
1/4/2017	0.36	1.91		1.46					
1/5/2017			0.676		0.0813			1.1	
1/6/2017						8.34	20.1		0.0189 (J)
4/3/2017								1.21	
4/4/2017	0.509	2.77			0.0723	8.18			
4/5/2017			0.69	2					
4/6/2017							21.8		0.0181 (J)
7/10/2017									
7/11/2017		4.14			0.0734			1.44	
7/12/2017				2.95		7.51			0.0211 (J)
7/13/2017	0.126		0.888				16.3		
10/2/2017		4.65			0.0748			1.59	
10/3/2017	0.1			4.15					
10/4/2017			1.02			8.88	21.5		0.0254 (J)
1/9/2018	0.783				0.0679		13.9	1.35	
1/10/2018		1.79		3.68					
1/11/2018			1.28			6.95			0.018 (J)
7/9/2018		1.7			0.061				
7/10/2018	0.5			5.2				1.2	
7/11/2018			1.6			6.4	11.7		0.02 (J)
1/16/2019			1.5		0.046	5.3	9.3		
1/17/2019	0.43			8.6				1.1	
1/18/2019									0.018 (J)
1/21/2019		1.1							
3/25/2019		1				4.4	8.5		
3/26/2019	0.61		1.2	7.4	0.037 (J)			0.95	
3/27/2019									0.016 (J)
7/30/2019									
10/7/2019									
10/8/2019	1			8.4	0.048		6.4	1.1	
10/9/2019		0.79	1.3			5.7			0.019 (J)
4/6/2020							6.1		
4/7/2020	0.24			10.5	0.061 (J)	5.5		0.96	
4/8/2020		2.5	0.99						0.023 (J)
9/28/2020							4.6		
9/29/2020					0.053				
9/30/2020	2.3	9.9	0.86	8.1				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	3.5			10	0.08				
9/21/2021						6.4	4.4		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-9	GWC-11	GWC-22	GWC-12	GWC-13
8/30/2016	14.3	4.68	29.4	23.8					
8/31/2016					6.9	18.8	127	105	2.77
9/1/2016									
10/24/2016				22.5					
10/25/2016			28.3						
10/26/2016	18.6	5.45				16.6	127	101	2.25
10/27/2016					8.2				
1/3/2017	18.1			22.1					
1/4/2017			33.4			17.6	113	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			7.95	30.9	42.7		2.04
7/10/2017								90.3	
7/11/2017				23.5		17.7	46		
7/12/2017	18.1	4.81	38		8.37				2.25
7/13/2017									
10/2/2017				22.7					
10/3/2017	15.2	5.17	25.5			39.8			
10/4/2017					8.57		115	74.6	2.19
1/9/2018		4.73		23.2					
1/10/2018	15.5		36.5						2.28
1/11/2018					9.78	65.6	47.6	78.1	
7/9/2018				24.6 (J)					
7/10/2018	30.6	4.5	45.5						
7/11/2018					9.2	53	73.7	72.2	2.3
1/16/2019	33.3	10.1	46.5	27.7					2.3
1/17/2019						19.8 (J)		64.7	
1/18/2019					8.1		30.6		
1/21/2019									
3/25/2019				31.7					
3/26/2019	36.1	9	46.3						2.4
3/27/2019					7.7	25.1	28.8	63.1	
7/30/2019									
10/7/2019				31.6					
10/8/2019						69.2			2.3
10/9/2019	17.7	10.1	51.2		6		30.1	54.2	
4/6/2020				35.8					
4/7/2020	34.1	7.8	31.1			84.7	65.7	52.1	
4/8/2020					5.3				2.5
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		5.3	126	18.7	53.1	
3/11/2021									
3/12/2021				21.4					
3/15/2021									2.4
3/16/2021									
9/21/2021	140	110		18.5		87	15.3	63.4	3.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
8/30/2016									
8/31/2016	0.371 (J)								
9/1/2016		9.91	194	119	93.8	71.9	5.59	40.5	67.2
10/24/2016									
10/25/2016			100	106	94.1		6.43	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)		107	115		94.4			
1/6/2017		8.18					8.13		
4/3/2017				131					
4/4/2017	0.993	8.12	153					32.3	108
4/5/2017					106	104			
4/6/2017							7.72		
7/10/2017									
7/11/2017			125	155					136
7/12/2017		8			149				
7/13/2017	0.388 (J)					124	4.57	8.92	
10/2/2017			126	137					105
10/3/2017	0.251 (J)				217			7.88	
10/4/2017		12.5				136	6.41		
1/9/2018			119	135			4.68	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		8.6				122	3.9		
1/16/2019		68.8	120			80.5	4.3		
1/17/2019				137	187			27.6	
1/18/2019									
1/21/2019	0.19 (J)								60
3/25/2019		55.6					3.9		74.8
3/26/2019			84.2	124	204	68.8		60.1	
3/27/2019									
7/30/2019	0.43								
10/7/2019									
10/8/2019			146	129	205		3.5	49.5	
10/9/2019	0.18	46.7				56.6			80.1
4/6/2020							3.1		
4/7/2020		62.1	135	129	225			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						67	2.4		
3/12/2021				101					241
3/15/2021	0.22 (J)								
3/16/2021			34.4		188			104	
9/21/2021		67.5					2.7		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
9/22/2021	0.19 (J)		185		267	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)	98.2	245						
2/3/2022				144					
8/30/2022		79.3	144				3.56	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)	91.8	137	131				123	
8/28/2023							3.72		
8/29/2023	0.165 (J)	133				86.5			
9/6/2023			145		311			142	151
9/7/2023				142					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-9	GWC-11	GWC-22	GWC-12	GWC-13
8/30/2016	31	60	5.5	15					
8/31/2016					17	3.5	320	210	4.3
9/1/2016									
10/24/2016				13					
10/25/2016			5.1						
10/26/2016	24	67				2.5	450	200	4.9
10/27/2016					17				
1/3/2017	29			13					
1/4/2017			6.9			3.8	330	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			17	7.1	50		3.7
7/10/2017								88	
7/11/2017				13		3.1	70		
7/12/2017	31	64	6.5		18				2.6
7/13/2017									
10/2/2017				15					
10/3/2017	27	73	4.5			46			
10/4/2017					18		360	100	3
1/9/2018		61		13					
1/10/2018	59		6.9						3.4
1/11/2018					16	100	74	78	
7/9/2018				15.4					
7/10/2018	172	60.2	6.2						
7/11/2018					16.2	53.7	164	66.9	3.2
1/16/2019	49.7	54.1	6.6	16					3.8
1/17/2019						6.6		52	
1/18/2019					17.5		11		
1/21/2019									
3/25/2019				17.7					
3/26/2019	47.9	51.8	7						3.2
3/27/2019					18.9	11.9	11.5	45.6	
7/30/2019									
10/7/2019				18					
10/8/2019						89			4
10/9/2019	239	49.7	7.2		19		25.3	44.1	
4/6/2020				13.5					
4/7/2020	44.3	56.4	7.7			103	146	32.5	
4/8/2020					16.9				4.5
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		18.3	188	48.2	48.7	
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		103	9.4	63.8	7.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
8/30/2016									
8/31/2016	7.8								
9/1/2016		160	60	10	43	610	190	5.9	16
10/24/2016									
10/25/2016			36	6.5	34		175 (D)	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		37	10		710			
1/6/2017		67					180		
4/3/2017				7.3					
4/4/2017	8.7	80	47					8	23
4/5/2017					36	860			
4/6/2017							200		
7/10/2017									
7/11/2017			34	5.7					31
7/12/2017		120			44				
7/13/2017	8.3					860	200	5.4	
10/2/2017			34	4.4					30
10/3/2017	9				58			4.4	
10/4/2017		130				1000	260		
1/9/2018			24	5.7			210	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		75.9				864	177		
1/16/2019		20.2	29.2			469	165		
1/17/2019				3.2	48.9			5.4	
1/18/2019									
1/21/2019	6.9								5.1
3/25/2019		19.7					147		9.4
3/26/2019			21.1	3	5.1	439		11.9	
3/27/2019									
7/30/2019	7.1								
10/7/2019									
10/8/2019			40.2	2.9	46.4		125	7.8	
10/9/2019	7	32.1				330			5.4
4/6/2020							30.2		
4/7/2020		14.5	41.6	3.4	49.3			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						334	96.7		
3/12/2021				2.3					31.9
3/15/2021	6.4								
3/16/2021			15.8		44.9			25.3	
9/21/2021		13.9					92.2		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
9/22/2021	7.4		28		55.8	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	14.5	29.6						
2/3/2022				5.1					
8/30/2022		65	26.7				74.4	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	82.4	18.2	4.69				23.3	
8/28/2023							91.9		
8/29/2023	4.97	66				476			
9/6/2023			22.7		45.9			24.5	12.2
9/7/2023				4.46					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-9	GWC-22
8/30/2016	0.09 (J)	0.22 (J)	0.04 (J)	0.1 (J)					
8/31/2016					<0.1	0.7	<0.1	0.55	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		<0.1	0.16 (J)	<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)				<0.1	0.2 (J)	
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						0.37	<0.1	0.22 (J)	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	1.4		0.98	<0.1
7/9/2018				0.04 (J)					
7/10/2018	<0.1	<0.1	0.2 (J)						
7/11/2018					<0.1	0.62	<0.1	0.14 (J)	<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	0.036 (J)		0.13 (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			<0.1		0.068 (J)	<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							<0.1	0.058 (J)	
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 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWB-6R	GWC-1	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-9	GWC-22
3/10/2021	<0.1	<0.1	<0.1		<0.1	0.14		0.066 (J)	<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	0.231	0.0423 (J)	0.0994 (J)	
2/2/2023		<0.1							<0.1
8/28/2023				0.0498 (J)					
8/29/2023	0.0523 (J)	0.0596 (J)	<0.1				<0.1	0.115	0.0758 (J)
9/6/2023					<0.1	0.238			
9/7/2023									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWC-14	GWC-15	GWB-4R	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	<0.1	0.031 (J)					
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 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWC-14	GWC-15	GWB-4R	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
8/28/2023								<0.1	
8/29/2023	<0.1			<0.1		0.572			
9/6/2023		<0.1			<0.1		<0.1		<0.1
9/7/2023			<0.1						

Prediction Limit

Constituent: pH (SU) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill 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 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill 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		
8/28/2023									
8/29/2023		5.33	5.68			4.89		5.17	
9/6/2023	6.19			5.05	4.35				5.16
9/7/2023							6.64		

Prediction Limit

Constituent: pH (SU) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill 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: Sulfate (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill Data: Grumman Road Landfill

	GWB-5R	GWB-6R	GWC-1	GWA-8 (bg)	GWC-9	GWC-11	GWC-22	GWC-12	GWC-13
8/30/2016	100	120	87	140					
8/31/2016					84	64	700	1100	43
9/1/2016									
10/24/2016				160					
10/25/2016			83						
10/26/2016	130	120				56	850	900	29
10/27/2016					76				
1/3/2017	120			140					
1/4/2017			99			65	680	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			79	110	220		49
7/10/2017								480	
7/11/2017				130		49	210		
7/12/2017	140	140	100		75				16
7/13/2017									
10/2/2017				150					
10/3/2017	130	140	63			140			
10/4/2017					78		730	760	33
1/9/2018		140		120					
1/10/2018	110		86						22
1/11/2018					110	270	180	780	
7/9/2018				123					
7/10/2018	48.1	128	77.7						
7/11/2018					87.4	211	381	598	17.8
1/16/2019	184	402	71.2	129					20.2
1/17/2019						50.3		454	
1/18/2019					56.9		107		
1/21/2019									
3/25/2019				152					
3/26/2019	222	319	73.8						33.6
3/27/2019					76.2	76.8	103	579	
7/30/2019									
10/7/2019				156					
10/8/2019						310			22
10/9/2019	90.8	255	76.3		41.1		80.2	392	
4/6/2020				123					
4/7/2020	180	180	83			446	333	297	
4/8/2020					34.2				30.7
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		38.7	687	101	282	
3/11/2021									
3/12/2021				103					
3/15/2021									30.6
3/16/2021									
9/21/2021	829	645		96.5		433	52.4	315	36.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
8/30/2016									
8/31/2016	21								
9/1/2016		210	730	120	430	310	73	36	180
10/24/2016									
10/25/2016			420	100	360		26	16	79
10/26/2016	100	230				280			
10/27/2016									
1/3/2017									
1/4/2017					360			45	170
1/5/2017	22		430	140		310			
1/6/2017		220					23		
4/3/2017				150					
4/4/2017	29	230	600					46	300
4/5/2017					440	460			
4/6/2017							25		
7/10/2017									
7/11/2017			400	110					400
7/12/2017		210			490				
7/13/2017	20					490	65	33	
10/2/2017			470	56					390
10/3/2017	20				780			34	
10/4/2017		290				1100	13		
1/9/2018			440	84			45	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		177				902	37.7		
1/16/2019		244	291			422	24.5		
1/17/2019				45.2	780			24.1	
1/18/2019									
1/21/2019	10.2								35.5
3/25/2019		245					14.7		95.6
3/26/2019			192	54	87.9	439		83.9	
3/27/2019									
7/30/2019	12.3								
10/7/2019									
10/8/2019			428	45.8	872		32.8	85.6	
10/9/2019	10.1	38.5				346			58.5
4/6/2020							20.3		
4/7/2020		221	456	26.9	844			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						244	12		
3/12/2021				21.1					933
3/15/2021	10								
3/16/2021			92		821			343	
9/21/2021		232					11.1		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-2	GWB-4R	GWC-14	GWC-15	GWC-16	GWC-17	GWA-7 (bg)	GWC-21	GWC-20
9/22/2021	10.3		444		1040	394		14.6	905
9/23/2021				124					
1/31/2022							15		
2/1/2022					1010	416		374	862
2/2/2022	9	338	589						
2/3/2022				102					
8/30/2022		379	410				10.6	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	337	220	34.3				447	
8/28/2023							6.57		
8/29/2023	10.5	551				444			
9/6/2023			185		1250			470	460
9/7/2023				46.8					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III

Grumman Road Landfill 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 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill 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		
8/28/2023	138								
8/29/2023		644	1320	272	70	2300	9 (J)		
9/6/2023								1330	686
9/7/2023									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2023 5:43 PM View: Appendix III
 Grumman Road Landfill 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 11/8/2023 5:43 PM View: Appendix III
Grumman Road Landfill 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
8/28/2023								1450	
8/29/2023	62			1270			1290		
9/6/2023			1980		924	826			594
9/7/2023		471							

FIGURE G.

Appendix III Trend Tests - Significant Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.5451	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	14.5	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	8.091	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	10.19	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	4.878	89	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	19.26	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-7.165	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	21.18	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	18.13	88	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-7.784	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-19.94	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0407	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.045	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-11.02	-109	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	41.63	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	105	117	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	108.7	119	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-99.1	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	118.3	123	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	61.85	82	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-44.81	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

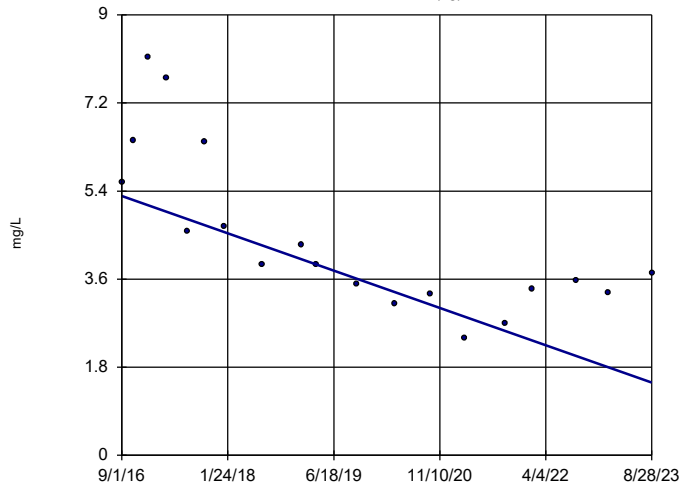
Appendix III Trend Tests - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-7 (bg)	-0.5451	-104	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	-1.227	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	14.5	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-5R	8.091	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-6R	10.19	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1	4.878	89	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	19.26	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-7.165	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	3.578	21	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.813	29	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	26.8	125	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-2.733	-21	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	21.18	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21	18.13	88	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-7.784	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-19.94	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	-0.4345	-48	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-53.53	-46	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-22	-17.18	-53	-74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.007396	-36	-87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.01125	-77	-87	No	21	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.1066	-79	-87	No	21	4.762	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0407	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	0.03184	72	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.04078	56	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.045	-113	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-11.02	-109	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	14.31	49	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	41.63	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	105	117	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	108.7	119	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-99.1	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-35.63	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	118.3	123	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	5.415	6	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	71.03	55	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21	61.85	82	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-44.81	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

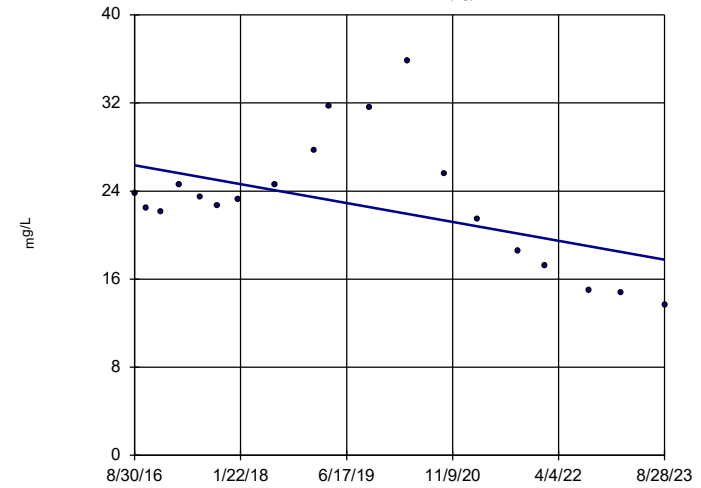


n = 19
 Slope = -0.5451
 units per year.
 Mann-Kendall
 statistic = -104
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

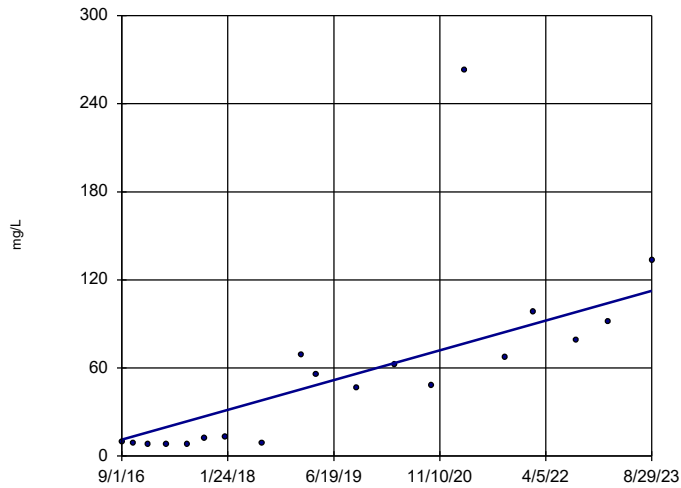


n = 19
 Slope = -1.227
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-4R

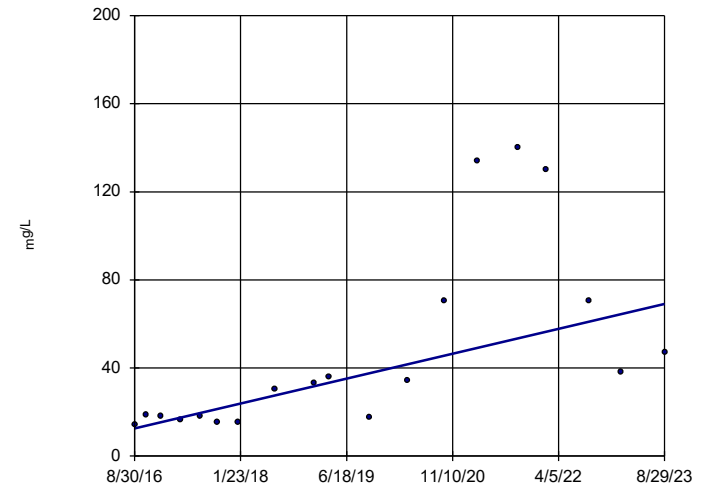


n = 19
 Slope = 14.5
 units per year.
 Mann-Kendall
 statistic = 115
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-5R

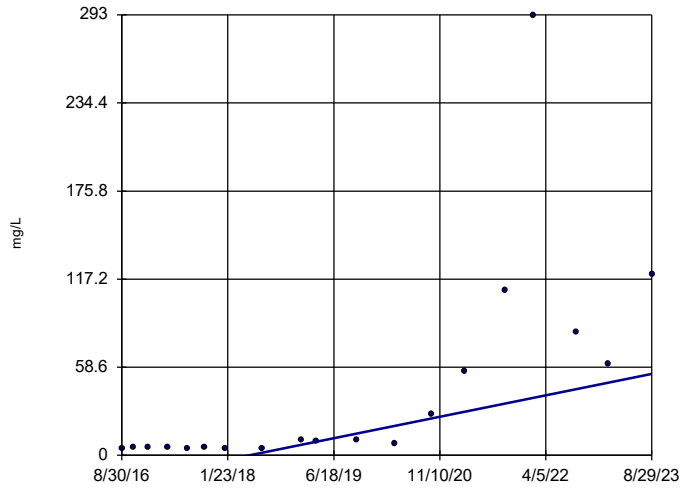


n = 19
 Slope = 8.091
 units per year.
 Mann-Kendall
 statistic = 100
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-6R

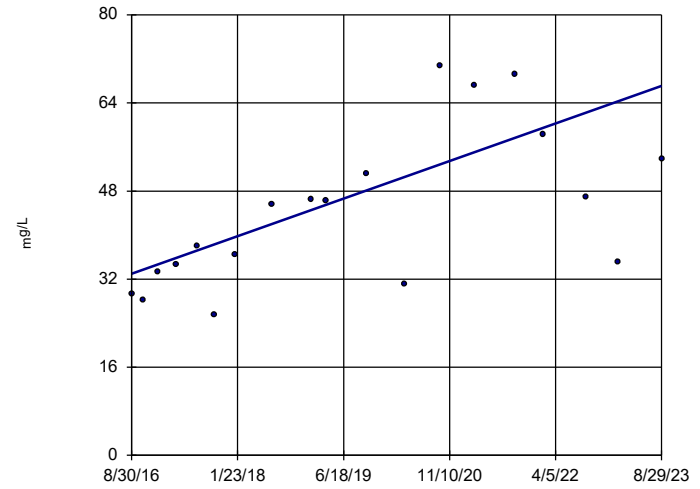


n = 19
 Slope = 10.19
 units per year.
 Mann-Kendall
 statistic = 110
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-1

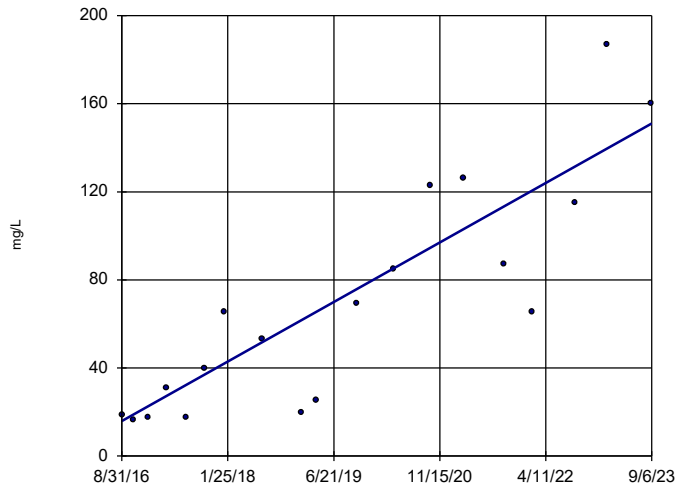


n = 19
 Slope = 4.878
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-11

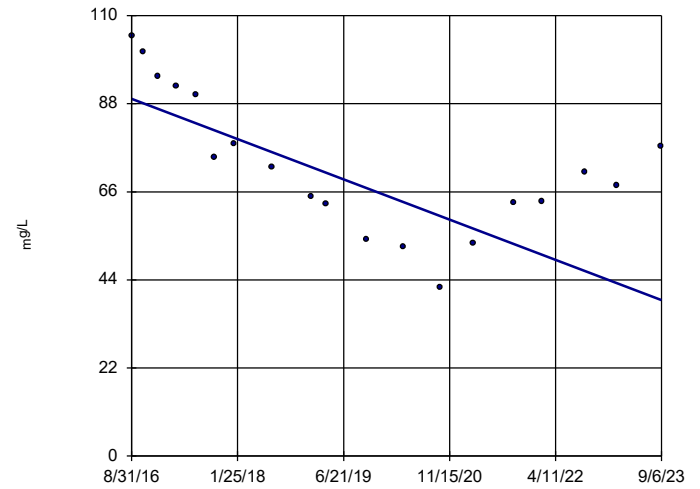


n = 19
 Slope = 19.26
 units per year.
 Mann-Kendall
 statistic = 123
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-12

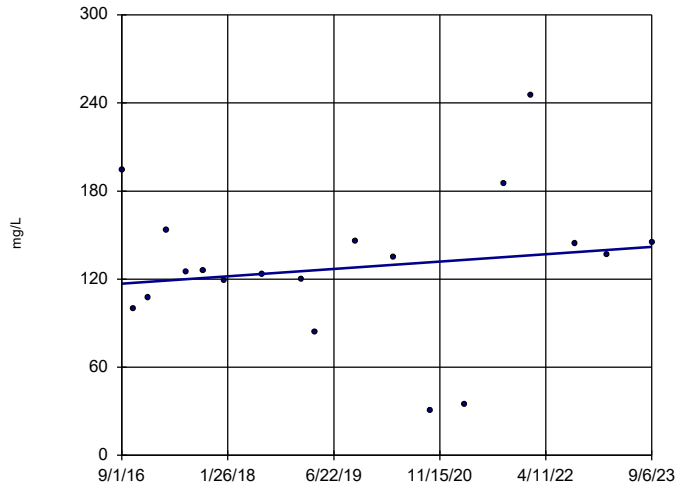


n = 19
 Slope = -7.165
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-14

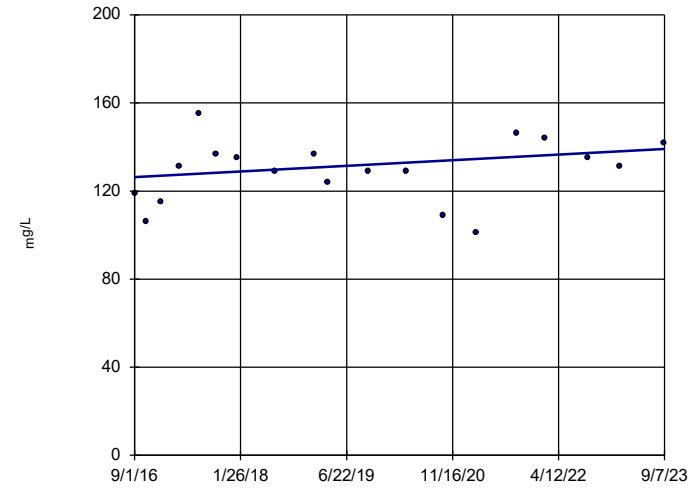


n = 19
 Slope = 3.578
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

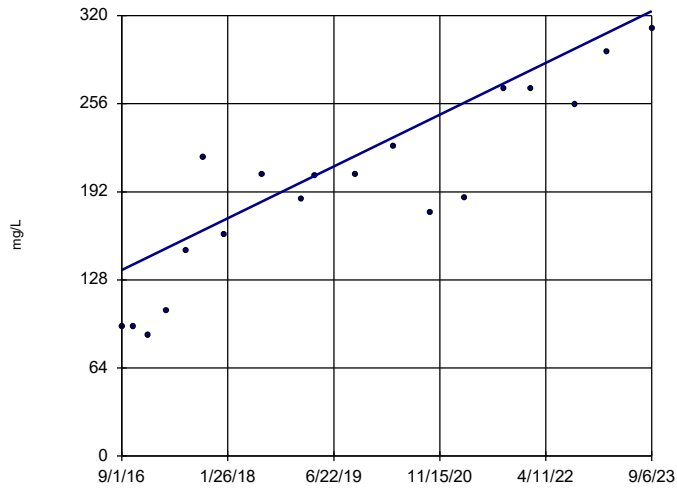


n = 19
 Slope = 1.813
 units per year.
 Mann-Kendall
 statistic = 29
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

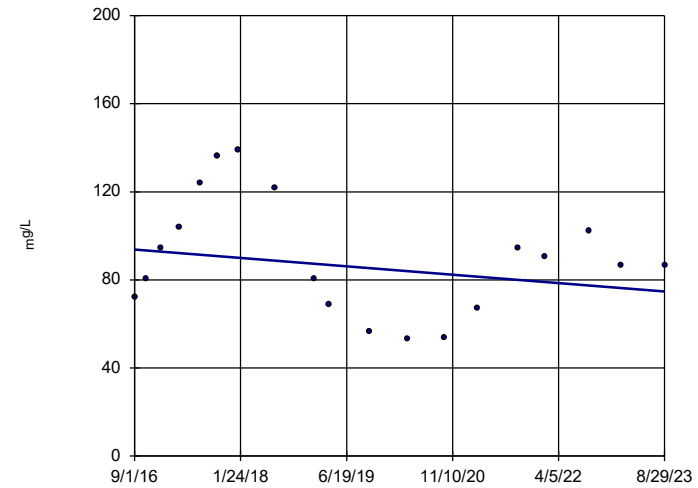


n = 19
 Slope = 26.8
 units per year.
 Mann-Kendall
 statistic = 125
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

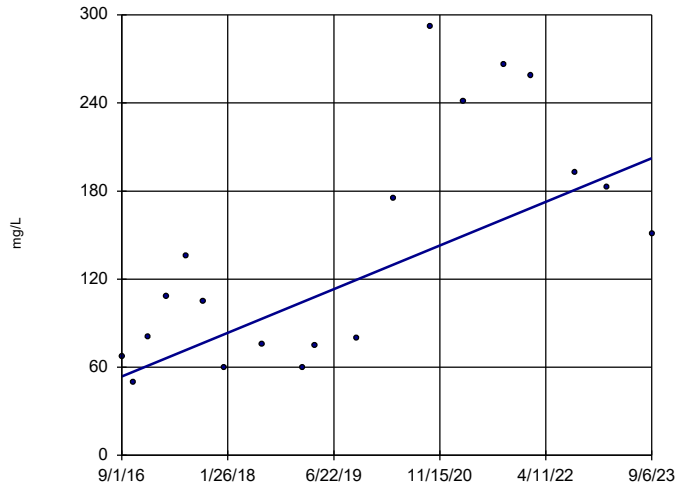


n = 19
 Slope = -2.733
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

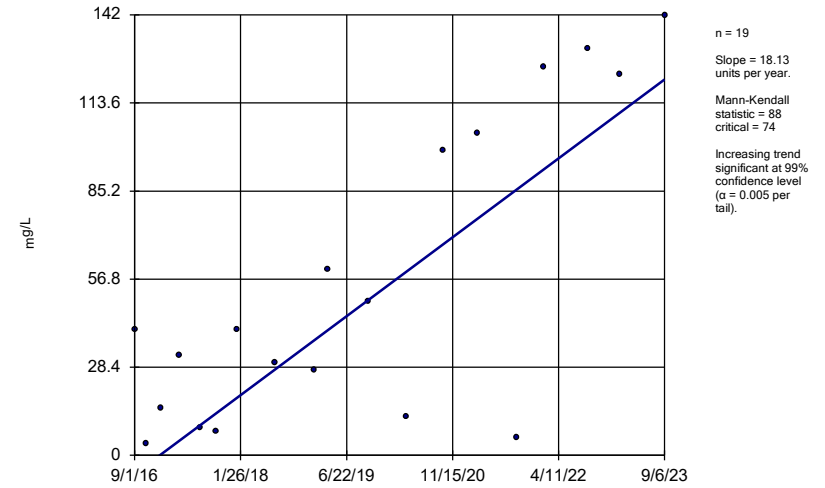
GWC-20



Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

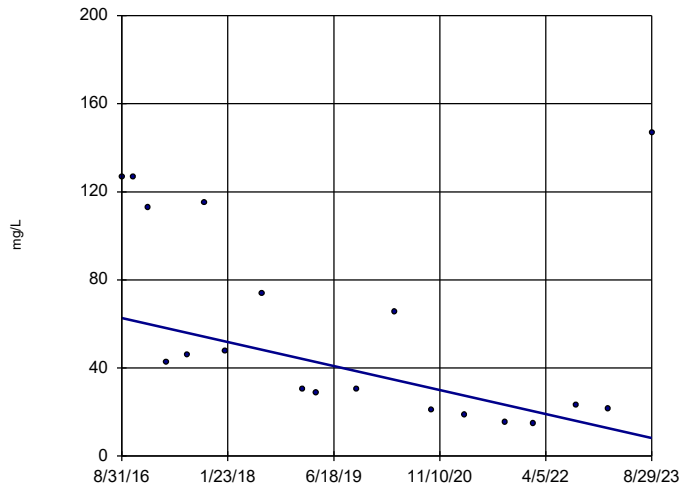
GWC-21



Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

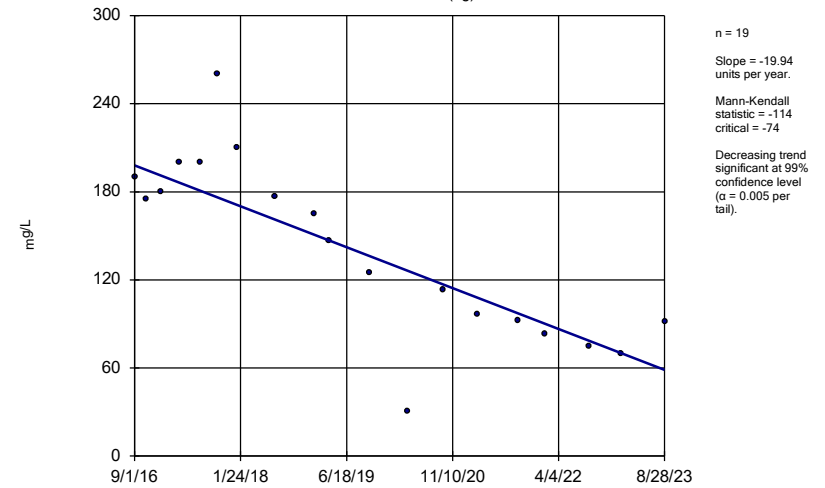
GWC-22



Constituent: Calcium Analysis Run 11/8/2023 5:47 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

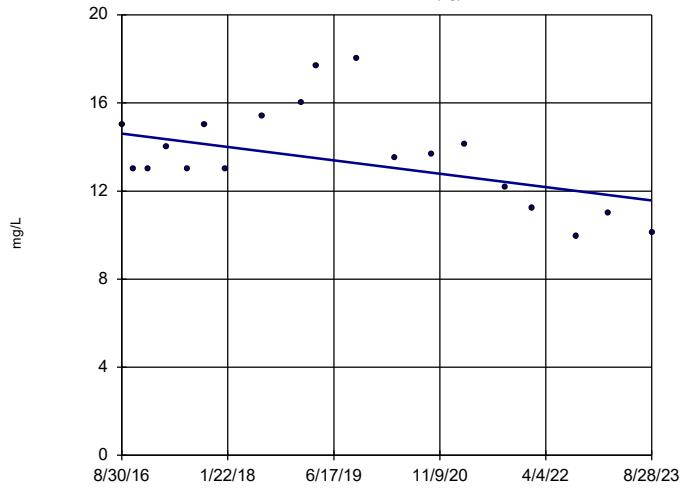
GWA-7 (bg)



Constituent: Chloride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

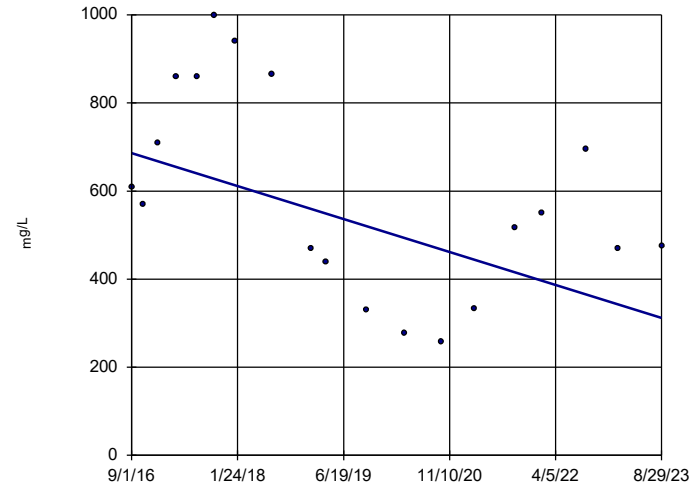


n = 19
 Slope = -0.4345
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

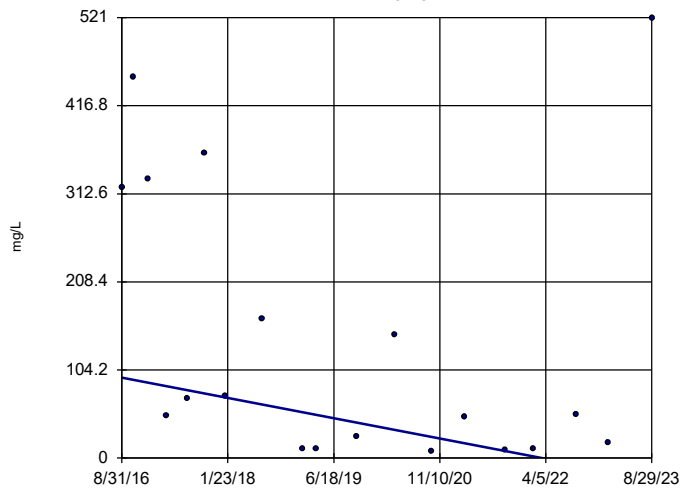


n = 19
 Slope = -53.53
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-22



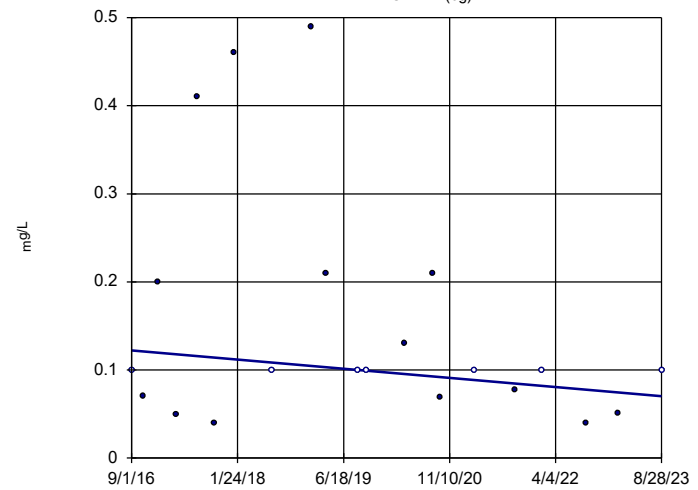
n = 19
 Slope = -17.18
 units per year.
 Mann-Kendall
 statistic = -53
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)

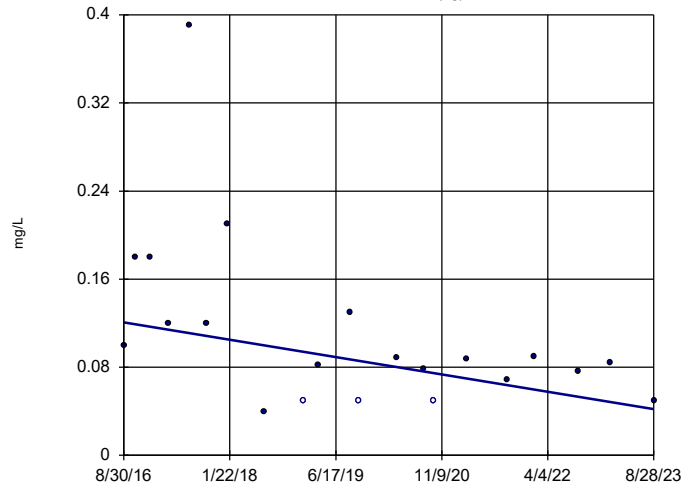


n = 21
 Slope = -0.007396
 units per year.
 Mann-Kendall
 statistic = -36
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

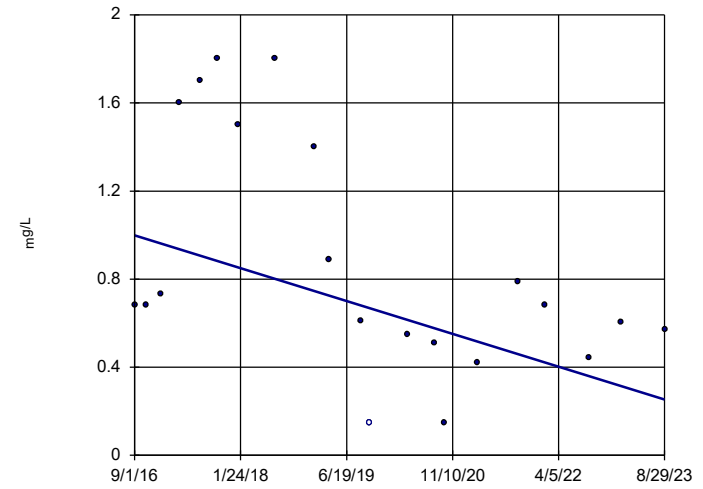


n = 21
Slope = -0.01125
units per year.
Mann-Kendall
statistic = -77
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

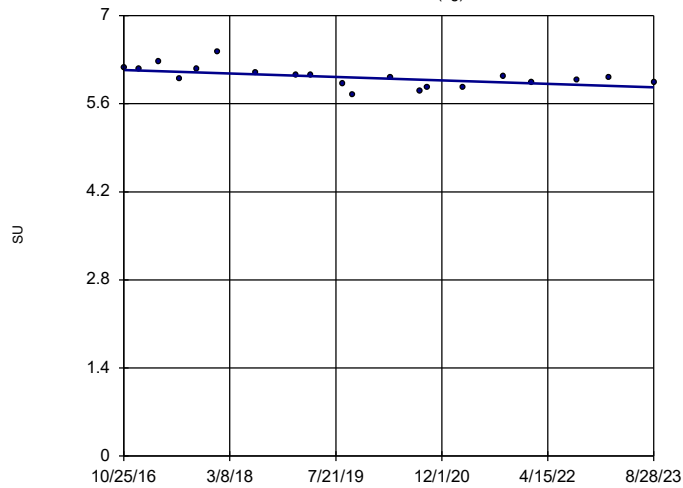


n = 21
Slope = -0.1066
units per year.
Mann-Kendall
statistic = -79
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-7 (bg)

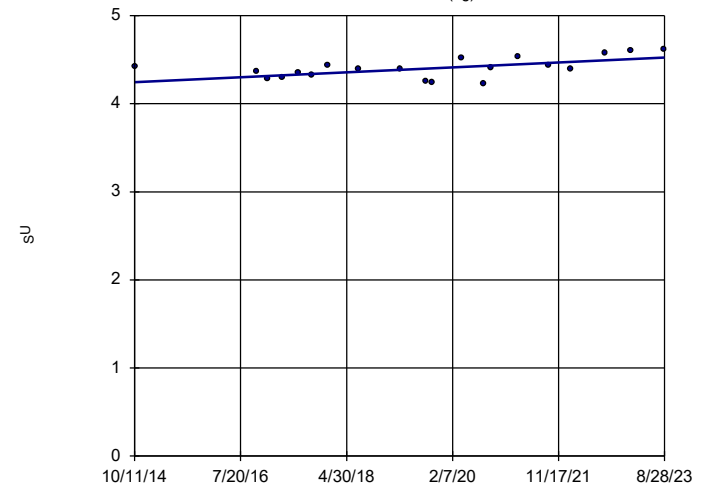


n = 20
Slope = -0.0407
units per year.
Mann-Kendall
statistic = -85
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

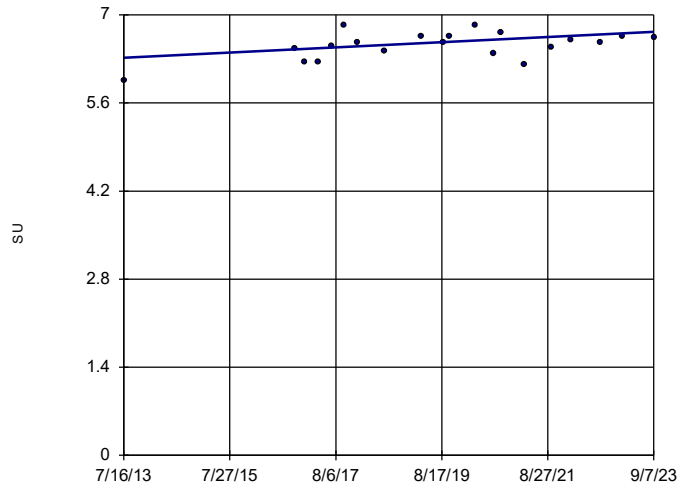


n = 20
Slope = 0.03184
units per year.
Mann-Kendall
statistic = 72
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

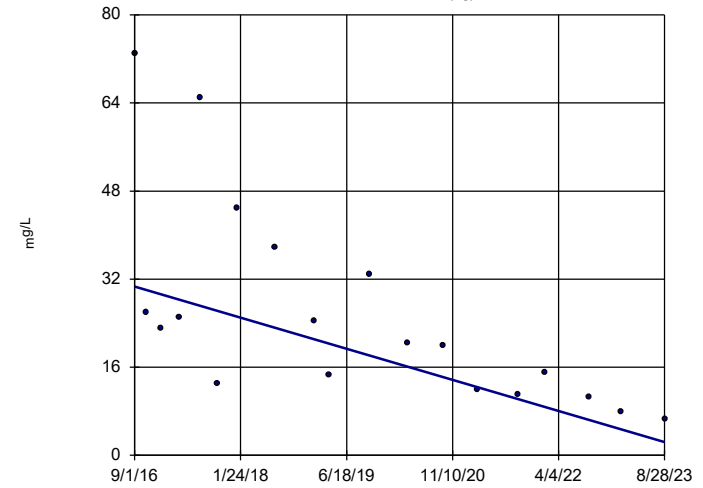
GWC-15



Constituent: pH Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

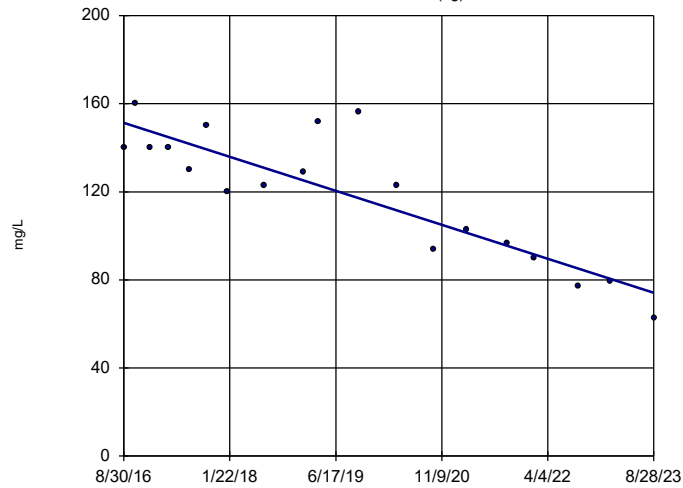
GWA-7 (bg)



Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

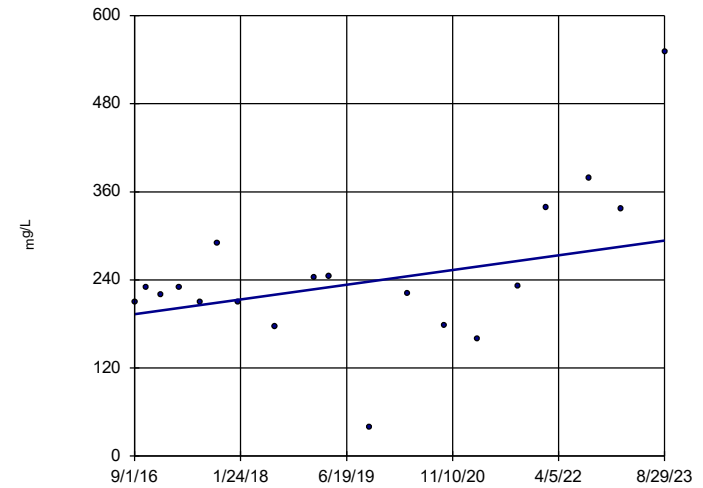
GWA-8 (bg)



Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

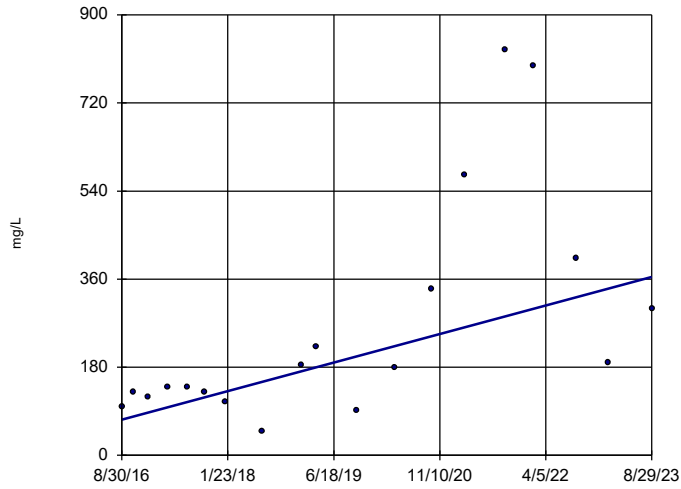
GWB-4R



Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-5R

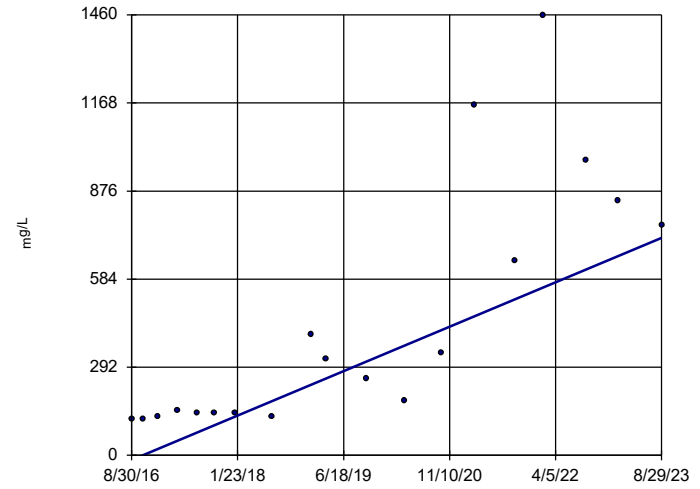


n = 19
 Slope = 41.63
 units per year.
 Mann-Kendall
 statistic = 87
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWB-6R

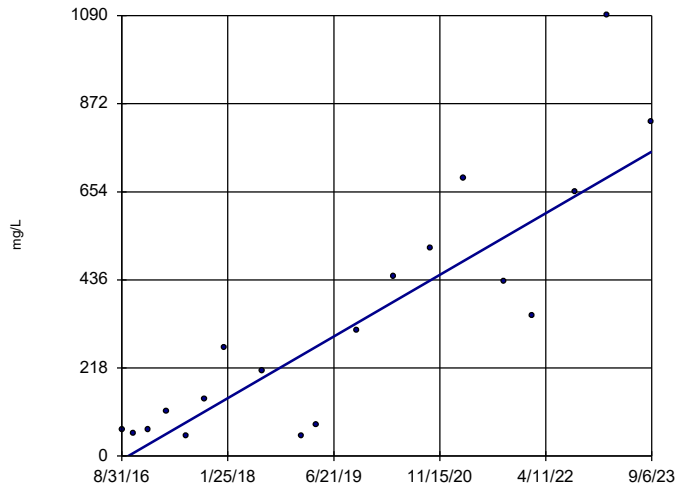


n = 19
 Slope = 105
 units per year.
 Mann-Kendall
 statistic = 117
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-11

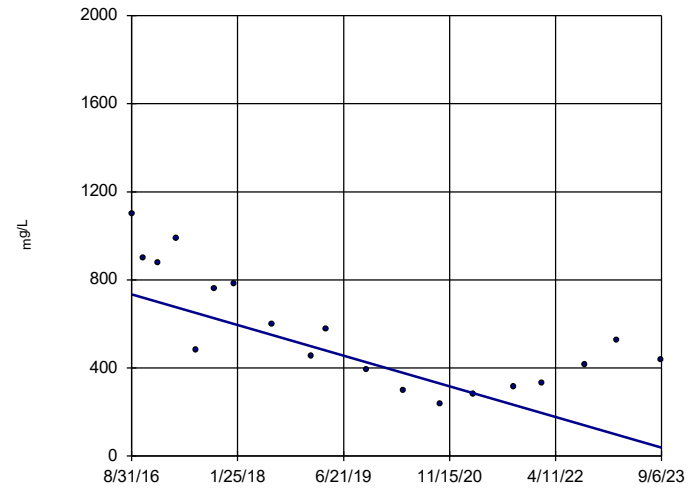


n = 19
 Slope = 108.7
 units per year.
 Mann-Kendall
 statistic = 119
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-12

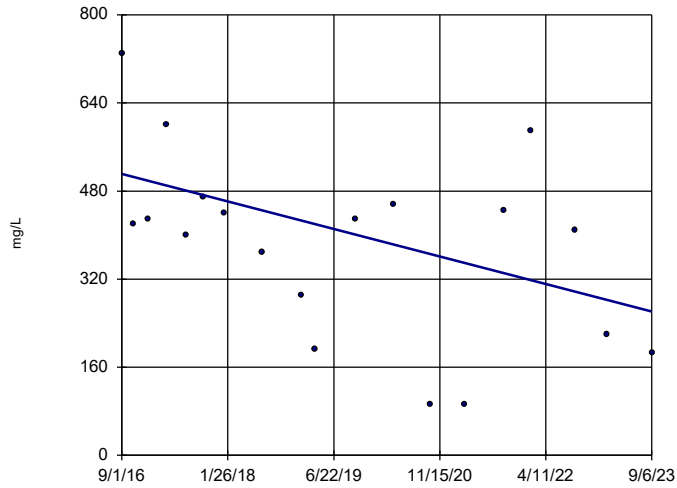


n = 19
 Slope = -99.1
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-14

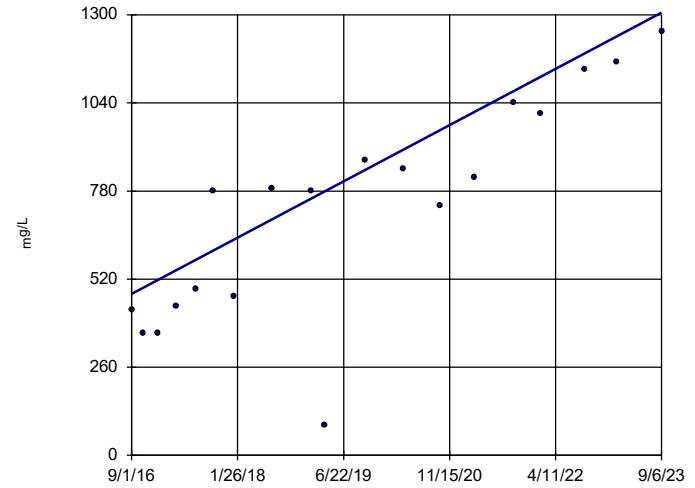


n = 19
 Slope = -35.63
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

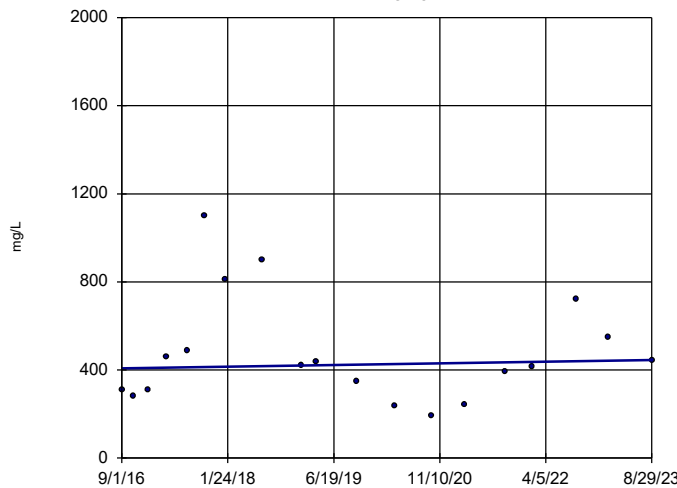


n = 19
 Slope = 118.3
 units per year.
 Mann-Kendall
 statistic = 123
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-17

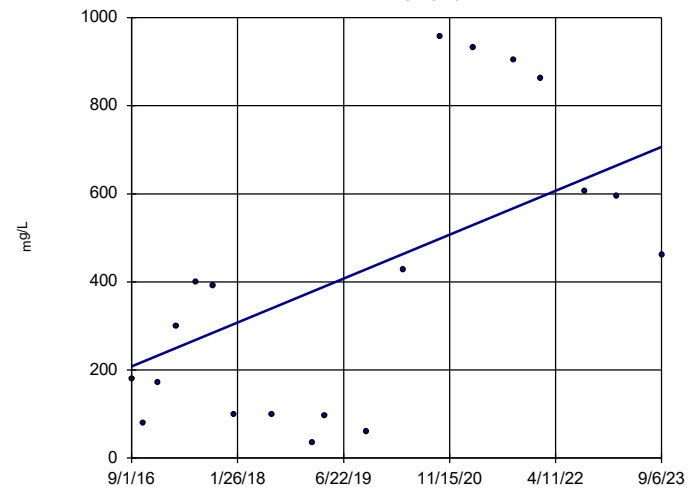


n = 19
 Slope = 5.415
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

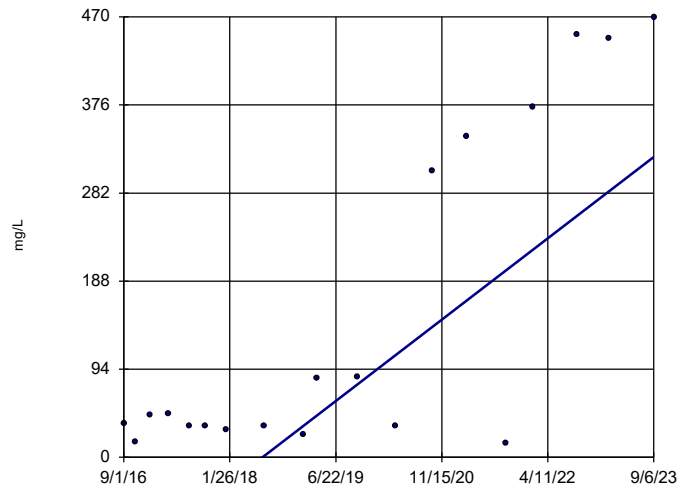


n = 19
 Slope = 71.03
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
 Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-21

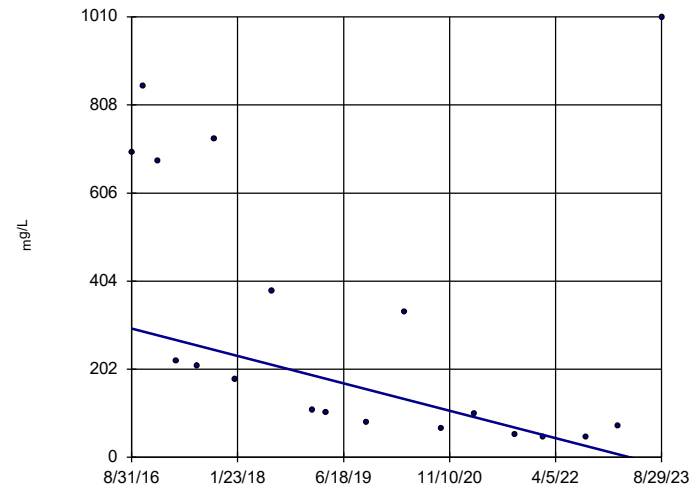


n = 19
Slope = 61.85
units per year.
Mann-Kendall
statistic = 82
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-22



n = 19
Slope = -44.81
units per year.
Mann-Kendall
statistic = -95
critical = -74
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 11/8/2023 5:48 PM View: Appendix III - Trend Tests
Grumman Road Landfill Data: Grumman Road Landfill

FIGURE H.

Upper Tolerance Limits Summary Table

Grumman Road Landfill Data: Grumman Road Landfill Printed 11/8/2023, 5:53 PM

Constituent	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	131	95.42	n/a	0.001207	NP Inter(NDs)
Arsenic (mg/L)	0.0287	n/a	n/a	n/a	n/a	131	76.34	n/a	0.001207	NP Inter(NDs)
Barium (mg/L)	0.1681	n/a	n/a	n/a	n/a	129	0	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0017	n/a	n/a	n/a	n/a	51	52.94	n/a	0.0731	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	n/a	49	95.92	n/a	0.08099	NP Inter(NDs)
Chromium (mg/L)	0.068	n/a	n/a	n/a	n/a	130	61.54	n/a	0.001271	NP Inter(NDs)
Cobalt (mg/L)	0.0102	n/a	n/a	n/a	n/a	49	46.94	n/a	0.08099	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.96	n/a	n/a	n/a	n/a	35	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.49	n/a	n/a	n/a	n/a	42	23.81	n/a	0.116	NP Inter(normality)
Lead (mg/L)	0.013	n/a	n/a	n/a	n/a	127	73.23	n/a	0.001482	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	38	76.32	n/a	0.1424	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	32	84.38	n/a	0.1937	NP Inter(NDs)
Molybdenum (mg/L)	0.0098	n/a	n/a	n/a	n/a	38	84.21	n/a	0.1424	NP Inter(NDs)
Selenium (mg/L)	0.0438	n/a	n/a	n/a	n/a	131	82.44	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	n/a	70	94.29	n/a	0.02758	NP Inter(NDs)
Vanadium (mg/L)	0.425	n/a	n/a	n/a	n/a	125	60.8	n/a	0.001642	NP Inter(NDs)
Zinc (mg/L)	0.16	n/a	n/a	n/a	n/a	123	29.27	n/a	0.00182	NP Inter(normality)

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	0.010	0.010
Combined Radium, Total (pCi/L)	5		11.96	11.96
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	0.03	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 Summary Table - Significant Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Arsenic (mg/L)	GWC-15	0.2787	0.1895	0.029	Yes	8	0.2341	0.04206	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08757	0.06589	0.029	Yes	24	0.07673	0.02124	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3582	0.2794	0.029	Yes	23	0.3188	0.07531	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-4R	0.1741	0.1131	0.1	Yes	8	0.1436	0.02875	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1991	0.1262	0.1	Yes	19	0.1626	0.06219	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.3876	0.1578	0.1	Yes	19	0.2951	0.2162	0	None	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	23	0.002702	0.000803	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	23	0.002777	0.0007389	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	23	0.00262	0.0008713	82.61	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00064	0.006	No	23	0.001959	0.001218	56.52	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	23	0.002896	0.0005004	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	23	0.002948	0.0002502	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	23	0.002811	0.0006241	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	23	0.002865	0.0004488	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	23	0.00285	0.0005315	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	23	0.002884	0.0005567	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	23	0.002571	0.0009029	78.26	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	23	0.002823	0.0006168	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003249	0.002038	0.029	No	23	0.002731	0.001244	8.696	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.00215	0.001182	0.029	No	23	0.002547	0.001648	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003803	0.001652	0.029	No	23	0.008236	0.00932	21.74	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.005291	0.002538	0.029	No	22	0.004831	0.005258	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.00254	0.029	No	23	0.004893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	23	0.0043	0.001568	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	23	0.004508	0.001341	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002263	0.001697	0.029	No	24	0.002607	0.001207	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.2787	0.1895	0.029	Yes	8	0.2341	0.04206	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08757	0.06589	0.029	Yes	24	0.07673	0.02124	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0011	0.029	No	23	0.00304	0.001933	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	23	0.004432	0.001503	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3582	0.2794	0.029	Yes	23	0.3188	0.07531	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.0065	0.0031	0.029	No	23	0.008535	0.009492	30.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0012	0.029	No	23	0.00338	0.001952	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	23	0.004819	0.0008674	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	7	0.004417	0.001542	85.71	None	No	0.008	NP (NDs)
Barium (mg/L)	GWB-4R	0.0994	0.076	2	No	23	0.09565	0.02685	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1371	0.08601	2	No	23	0.1153	0.05486	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.106	0.0196	2	No	23	0.06341	0.0419	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05717	0.05122	2	No	23	0.0542	0.005693	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1283	0.07954	2	No	23	0.1039	0.04659	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.025	0.0172	2	No	23	0.02041	0.004776	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.03126	0.02197	2	No	23	0.02787	0.01162	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-14	0.073	0.026	2	No	24	0.04664	0.02748	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05099	0.04136	2	No	23	0.04618	0.009206	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1636	0.08359	2	No	22	0.1236	0.07456	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.09044	0.04389	2	No	23	0.07465	0.05436	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-2	0.053	0.049	2	No	22	0.05228	0.007227	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.2008	0.1062	2	No	23	0.1756	0.114	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.1258	0.06277	2	No	23	0.1037	0.0687	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.09165	0.05979	2	No	23	0.07572	0.03045	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2383	0.1731	2	No	23	0.2057	0.06231	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.08044	0.06523	2	No	6	0.07345	0.006842	0	None	x^5	0.01	Param.
Barium (mg/L)	MW-24D	0.04523	0.02427	2	No	6	0.03475	0.007626	0	None	No	0.01	Param.
Barium (mg/L)	MW-25D	0.03009	0.02121	2	No	6	0.02565	0.003228	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0001	0.004	No	19	0.0003895	0.0001792	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.000099	0.004	No	19	0.0002706	0.0001753	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	19	0.0004524	0.0001425	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	19	0.0004762	0.0001039	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007306	0.0005212	0.004	No	19	0.0006436	0.0002056	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	19	0.0004767	0.0001014	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	19	0.0004343	0.000156	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.00008	0.004	No	19	0.0002808	0.0002139	47.37	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-17	0.002484	0.001649	0.004	No	19	0.002152	0.0008179	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.00009	0.004	No	20	0.0003839	0.0001881	70	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	19	0.0003598	0.0001914	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0003	0.00019	0.004	No	19	0.0002376	0.00004803	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	6	0.0004307	0.0001698	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.001	0.000304	0.005	No	19	0.0007834	0.0003748	73.68	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	19	0.0009037	0.0002885	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005895	0.0003052	0.005	No	19	0.0004474	0.0002428	5.263	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.0002	0.005	No	19	0.0006942	0.0004121	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.000823	0.005	No	19	0.0008596	0.0003097	78.95	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Cadmium (mg/L)	GWC-22	0.001	0.00012	0.005	No	19	0.0005816	0.0004186	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	6	0.0008783	0.000298	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	6	0.000865	0.0003307	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	GWB-4R	0.007686	0.003586	0.1	No	23	0.006118	0.004208	4.348	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.003853	0.001167	0.1	No	23	0.008154	0.01453	30.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.006093	0.002432	0.1	No	23	0.005035	0.004794	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.0028	0.0018	0.1	No	23	0.002603	0.001355	13.04	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00092	0.1	No	23	0.005264	0.004623	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.0001	0.1	No	23	0.003897	0.004148	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	23	0.006447	0.004538	60.87	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0009	0.1	No	24	0.005444	0.004658	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0013	0.1	No	23	0.004835	0.004254	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.001	0.1	No	24	0.005528	0.004573	45.83	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	23	0.004761	0.004394	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0008	0.1	No	23	0.006788	0.004498	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	23	0.004831	0.004343	39.13	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0007	0.1	No	23	0.005967	0.004704	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-22	0.01	0.0006	0.1	No	23	0.006321	0.004692	60.87	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	23	0.005073	0.004429	43.48	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	6	0.008448	0.003801	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	6	0.0086	0.003429	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	19	0.002356	0.003088	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.0057	0.00139	0.01	No	19	0.005084	0.005212	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-6R	0.0228	0.0049	0.01	No	19	0.01482	0.02222	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.000646	0.01	No	19	0.003405	0.002153	63.16	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.00119	0.0007776	0.01	No	19	0.0009837	0.0003521	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.004914	0.002767	0.01	No	19	0.004132	0.002025	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.0011	0.00036	0.01	No	20	0.000869	0.0002827	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.00077	0.01	No	19	0.0009083	0.0001689	63.16	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00093	0.01	No	19	0.001264	0.0004145	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.44	11.96	No	19	3.611	1.292	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.693	2.3	11.96	No	19	3.069	1.331	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	5.149	3.048	11.96	No	19	4.098	1.794	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.333	1.533	11.96	No	19	1.933	0.6833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.657	3.734	11.96	No	19	5.195	2.496	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.758	1.769	11.96	No	19	2.264	0.8447	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.698	0.9487	11.96	No	19	1.323	0.6395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.417	0.7316	11.96	No	19	1.074	0.5848	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.036	1.169	11.96	No	19	1.603	0.7401	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.82	1.866	11.96	No	19	2.386	0.8613	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.683	2.703	11.96	No	19	3.226	0.8803	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.11	0.725	11.96	No	19	0.9898	0.5164	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.716	2.449	11.96	No	19	3.583	1.936	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.729	1.47	11.96	No	19	2.1	1.075	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.689	3.569	11.96	No	19	5.129	2.664	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.613	2.06	11.96	No	19	2.932	1.535	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	3.139	0.814	11.96	No	6	1.977	0.8464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.307	0.1671	11.96	No	6	1.737	1.143	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	2.613	-0.2281	11.96	No	6	1.193	1.034	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	21	0.1607	0.2475	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	21	0.08626	0.03852	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	21	0.1134	0.05785	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.0596	4	No	21	0.1024	0.03762	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.6134	0.2489	4	No	21	0.4742	0.3697	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	21	0.1136	0.1017	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.21	0.1	4	No	21	0.161	0.1194	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.06	4	No	21	0.1267	0.09068	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.55	0.11	4	No	21	0.3966	0.2167	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.098	0.5347	4	No	21	0.8694	0.5313	4.762	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.17	0.083	4	No	21	0.1211	0.1163	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.2	0.14	4	No	21	0.1735	0.05978	80.95	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.2	0.071	4	No	21	0.1939	0.02815	95.24	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	21	0.09266	0.02275	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.2084	0.08905	4	No	21	0.1917	0.2132	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.13	0.0586	4	No	7	0.09539	0.02199	57.14	None	No	0.008	NP (NDs)
Fluoride (mg/L)	MW-24D	0.147	0.1	4	No	7	0.1067	0.01776	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1889	0.07965	4	No	7	0.1343	0.046	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

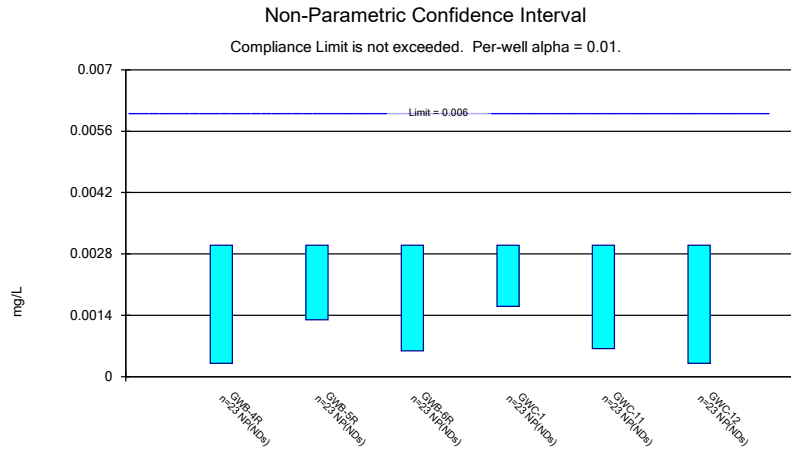
Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Lead (mg/L)	GWB-4R	0.003164	0.0007484	0.015	No	22	0.003135	0.00265	31.82	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0002	0.015	No	23	0.001288	0.0008792	47.83	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0002	0.015	No	23	0.001195	0.0008842	52.17	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	23	0.001668	0.00074	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.002	0.00021	0.015	No	23	0.0007917	0.0008204	30.43	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.000081	0.015	No	23	0.001083	0.001063	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.00017	0.015	No	23	0.001112	0.0008553	43.48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	24	0.0017	0.0006903	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	23	0.001197	0.0009386	56.52	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.0001	0.015	No	24	0.001069	0.0009515	50	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.002	0.00015	0.015	No	23	0.001379	0.0008832	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	23	0.001517	0.0008331	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	23	0.001592	0.0007921	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00016	0.015	No	23	0.001348	0.0009132	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007682	0.0003109	0.015	No	23	0.000947	0.0008105	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.00012	0.015	No	23	0.001288	0.0009167	60.87	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	6	0.001676	0.0007932	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	6	0.001682	0.0007781	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	6	0.001683	0.0007777	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWB-4R	0.016	0.0042	0.04	No	19	0.01081	0.005484	0	None	No	0.01	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0041	0.04	No	19	0.02035	0.013	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	19	0.01473	0.01489	47.37	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	19	0.02693	0.009201	89.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006594	0.005124	0.04	No	19	0.005859	0.001256	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0023	0.0018	0.04	No	18	0.006589	0.01078	16.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.0002	0.0001	0.002	No	16	0.0001843	0.00004387	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.0001	0.002	No	17	0.0001875	0.00003544	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	16	0.0001839	0.00004511	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	16	0.0001837	0.00004573	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	16	0.0001894	0.00002955	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	16	0.000185	0.00004243	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1741	0.1131	0.1	Yes	8	0.1436	0.02875	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	19	0.0009942	0.00008675	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.00085	0.1	No	19	0.006245	0.004543	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1268	0.05336	0.1	No	19	0.09699	0.06661	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.000804	0.1	No	19	0.007605	0.004124	73.68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	19	0.0009582	0.0001824	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	19	0.001242	0.001055	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01541	0.005281	0.1	No	19	0.01152	0.009327	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1066	0.08546	0.1	No	19	0.09602	0.01803	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1991	0.1262	0.1	Yes	19	0.1626	0.06219	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.003	0.1	No	19	0.006189	0.00346	42.11	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-20	0.3876	0.1578	0.1	Yes	19	0.2951	0.2162	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.05521	0.02328	0.1	No	19	0.03925	0.02727	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	19	0.0009649	0.0001528	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.003251	0.0008212	0.1	No	7	0.002036	0.001023	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.0015	0.000863	0.1	No	7	0.001066	0.0002034	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	GWB-4R	0.003901	0.002699	0.05	No	23	0.004088	0.001252	39.13	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.0033	0.05	No	23	0.004794	0.001133	78.26	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.00204	0.05	No	23	0.00841	0.009859	52.17	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0026	0.0018	0.05	No	23	0.003363	0.004416	8.696	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.008233	0.003606	0.05	No	23	0.007751	0.0058	17.39	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	23	0.004539	0.001044	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004373	0.003084	0.05	No	24	0.003728	0.001263	4.167	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.00466	0.002123	0.05	No	23	0.005092	0.00278	47.83	Kaplan-Meier	sqrt(x)	0.01	Param.

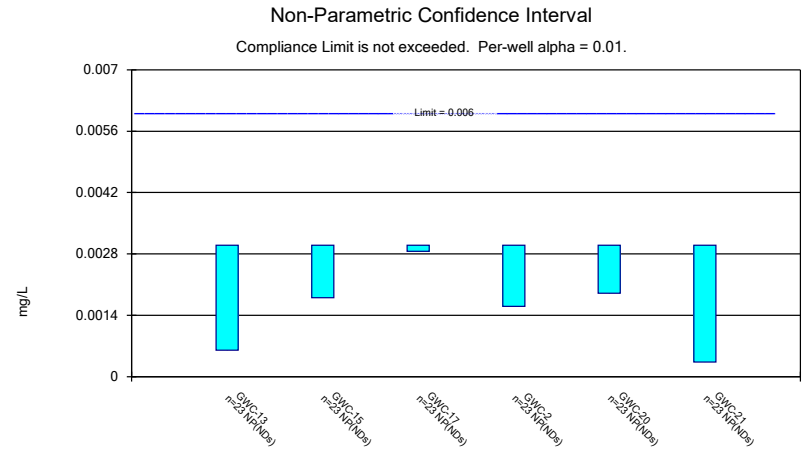
Confidence Intervals Summary Table - All Results

Grumman Road Landfill Data: Grumman Road Landfill Printed 2/13/2024, 10:11 AM

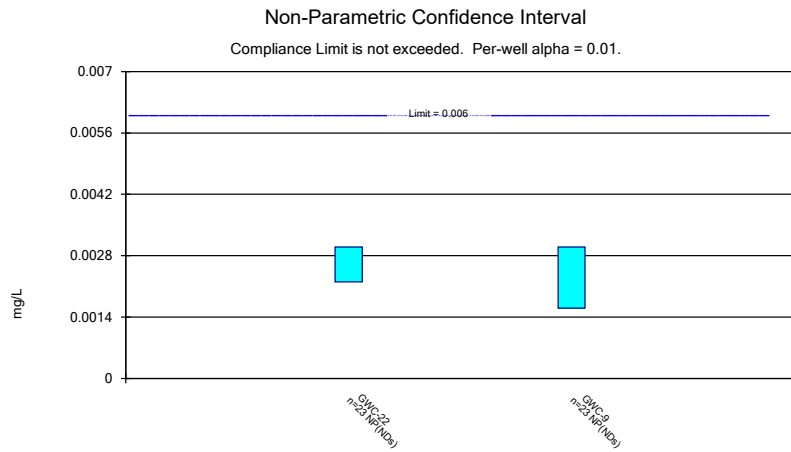
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Selenium (mg/L)	GWC-16	0.005044	0.003225	0.05	No	24	0.004134	0.001783	8.333	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0016	0.05	No	23	0.003739	0.001708	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	23	0.004804	0.0006865	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00192	0.05	No	23	0.003966	0.001612	69.57	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01868	0.009858	0.05	No	23	0.01427	0.008437	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	23	0.00443	0.00129	82.61	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	19	0.001797	0.0006085	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	19	0.001809	0.0005743	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	19	0.001693	0.0007295	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.0001	0.002	No	19	0.001217	0.0009445	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.0002	0.002	No	19	0.001236	0.0009214	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	19	0.001796	0.0006101	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	19	0.001795	0.0006133	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	19	0.001395	0.0009156	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	20	0.001906	0.0004226	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	19	0.001897	0.0004474	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.0001	0.002	No	19	0.001499	0.0008616	73.68	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.0371	0.0037	0.43	No	18	0.0185	0.01611	5.556	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWB-5R	0.01059	0.004573	0.43	No	18	0.009087	0.008212	5.556	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02593	0.009097	0.43	No	18	0.02249	0.02338	0	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.0064	0.0042	0.43	No	18	0.005508	0.002651	11.11	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-11	0.00685	0.0021	0.43	No	18	0.004105	0.002967	16.67	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.006386	0.003949	0.43	No	18	0.005283	0.002054	11.11	None	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.0029	0.43	No	18	0.01533	0.007789	66.67	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01532	0.007052	0.43	No	21	0.01118	0.007492	14.29	None	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.01	0.0022	0.43	No	20	0.00499	0.003486	30	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-16	0.0065	0.0026	0.43	No	21	0.01227	0.01879	19.05	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.01	0.0026	0.43	No	18	0.006322	0.003606	38.89	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.00777	0.43	No	18	0.01748	0.005868	83.33	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.00768	0.0026	0.43	No	20	0.005225	0.003146	25	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.01	0.0029	0.43	No	18	0.005396	0.003194	22.22	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-22	0.02	0.002	0.43	No	18	0.01406	0.01013	55.56	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.0103	0.43	No	18	0.01657	0.006838	77.78	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.43	No	6	0.01736	0.006475	83.33	None	No	0.0155	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.43	No	6	0.01707	0.007185	83.33	None	No	0.0155	NP (NDs)
Zinc (mg/L)	GWB-4R	0.02	0.0052	0.16	No	18	0.01214	0.006914	38.89	None	No	0.01	NP (normality)
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	18	0.01634	0.007165	77.78	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.0121	0.0036	0.16	No	18	0.01051	0.008417	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-1	0.02	0.00578	0.16	No	18	0.01579	0.007155	72.22	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.004	0.16	No	18	0.01459	0.00791	66.67	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0025	0.16	No	18	0.009313	0.008728	27.78	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.037	0.0027	0.16	No	18	0.02064	0.01713	0	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	21	0.01712	0.006242	80.95	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	20	0.01905	0.005646	85	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0031	0.16	No	21	0.01422	0.007898	61.9	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01156	0.006743	0.16	No	18	0.009149	0.003977	11.11	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.02	0.005	0.16	No	18	0.01694	0.01238	61.11	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	20	0.01882	0.005643	80	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.0071	0.16	No	18	0.015	0.007552	66.67	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0054	0.16	No	18	0.01316	0.007455	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.0026	0.16	No	18	0.01099	0.008635	33.33	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.01316	0.006698	0.16	No	6	0.0149	0.005858	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	6	0.01545	0.007458	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Zinc (mg/L)	MW-25D	0.0375	0.002363	0.16	No	6	0.02208	0.01525	50	Kaplan-Meier	sqrt(x)	0.01	Param.



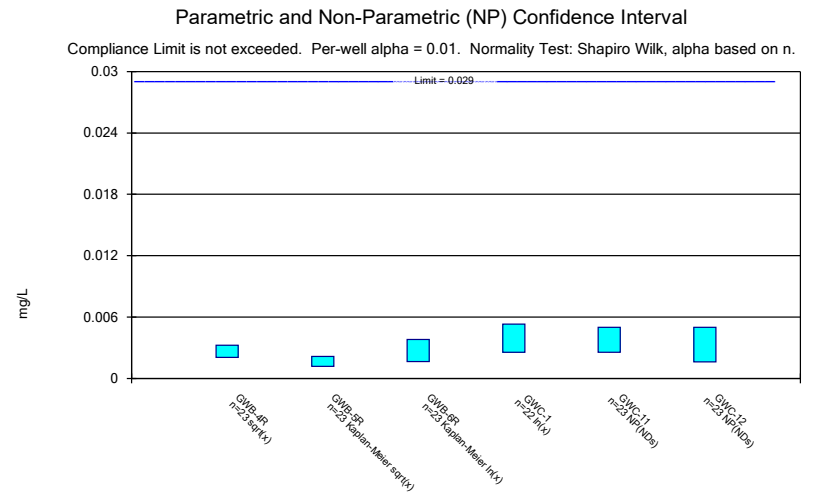
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Grumman Road Landfill Data: Grumman Road Landfill



Constituent: Antimony Analysis Run 2/13/2024 10:08 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill



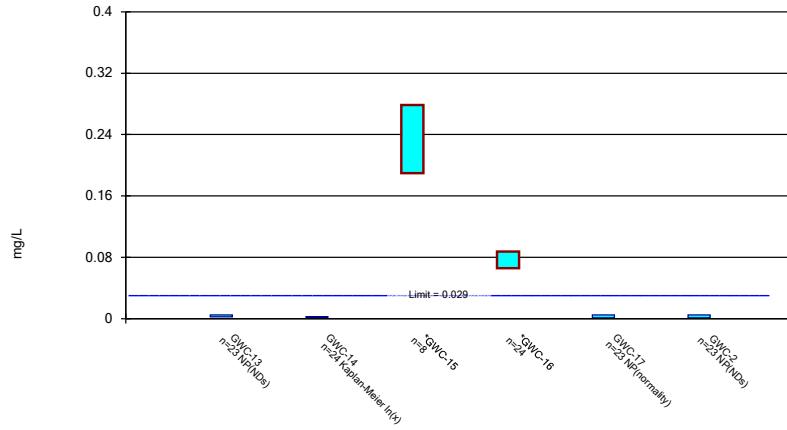
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Constituent: Arsenic Analysis Run 2/13/2024 10:08 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

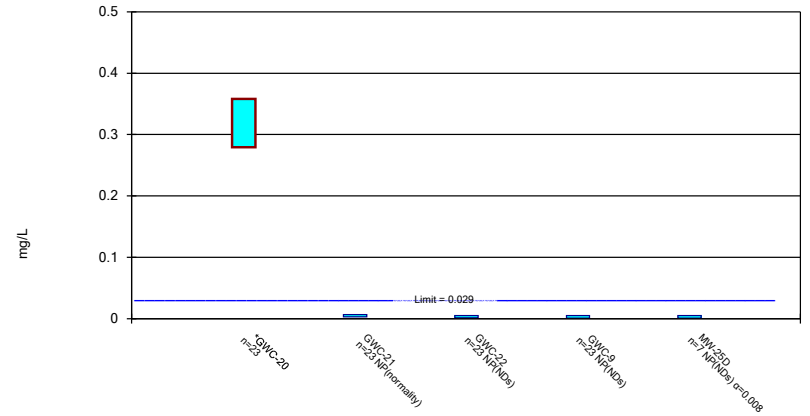
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Constituent: Arsenic Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

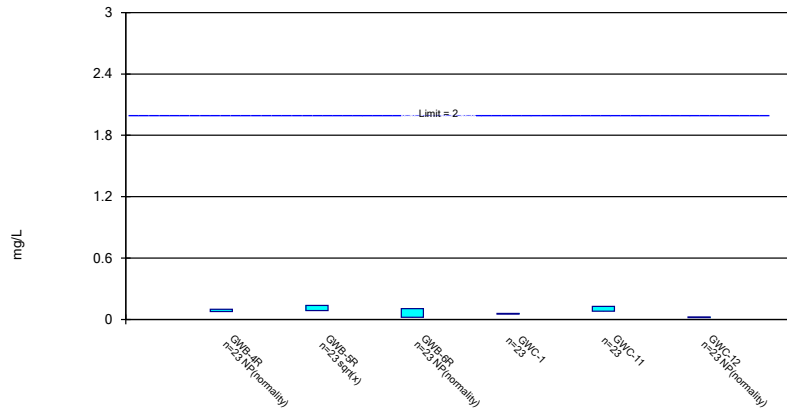
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Constituent: Arsenic Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

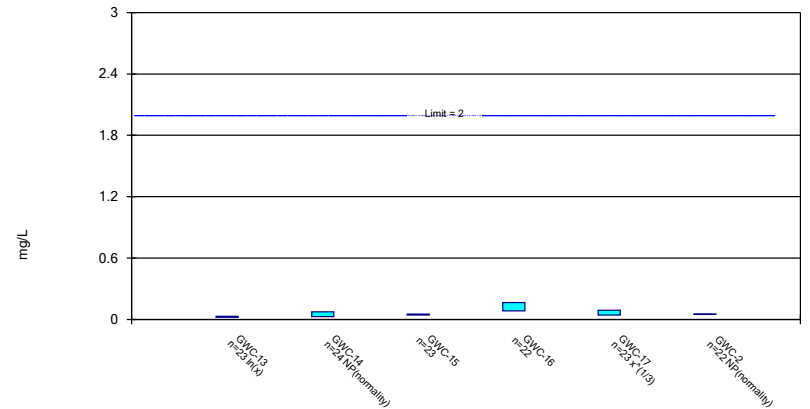
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Constituent: Barium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

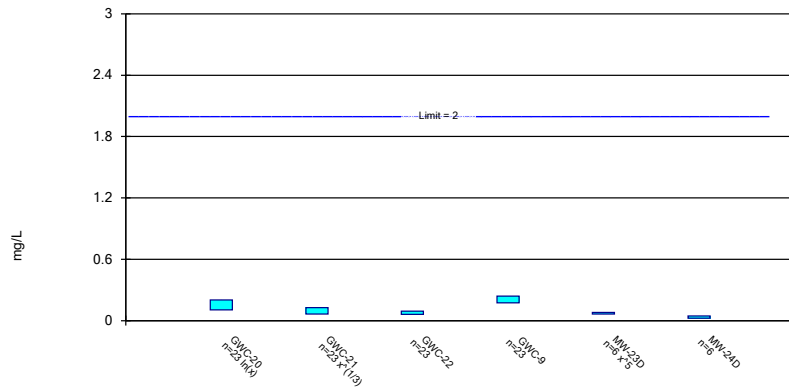
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric Confidence Interval

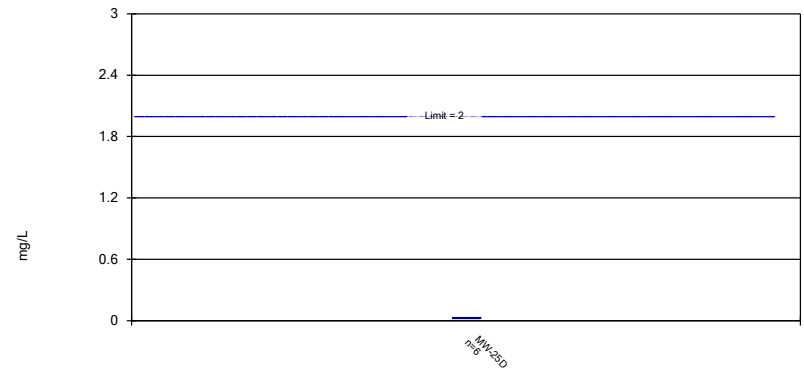
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric Confidence Interval

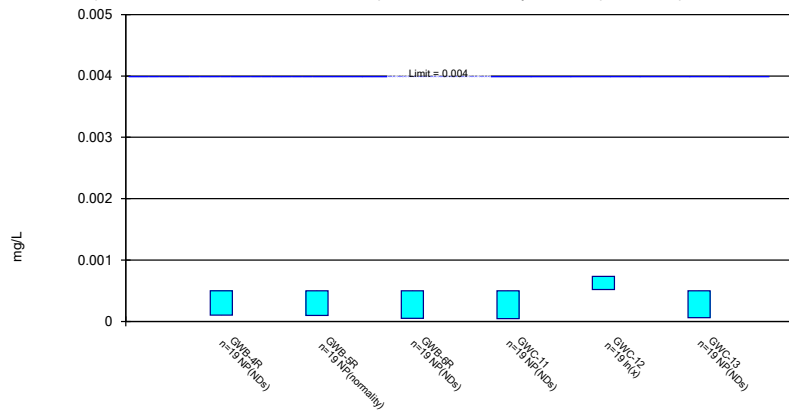
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

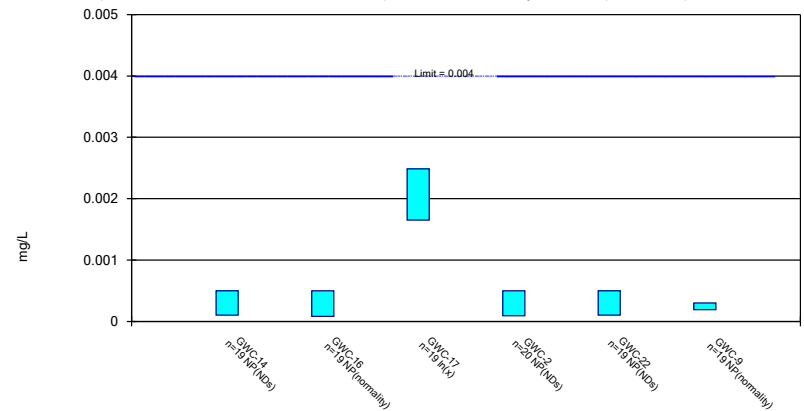
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

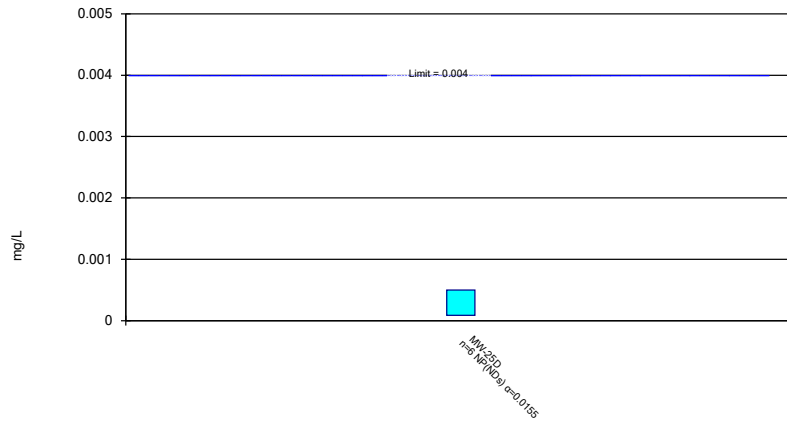
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

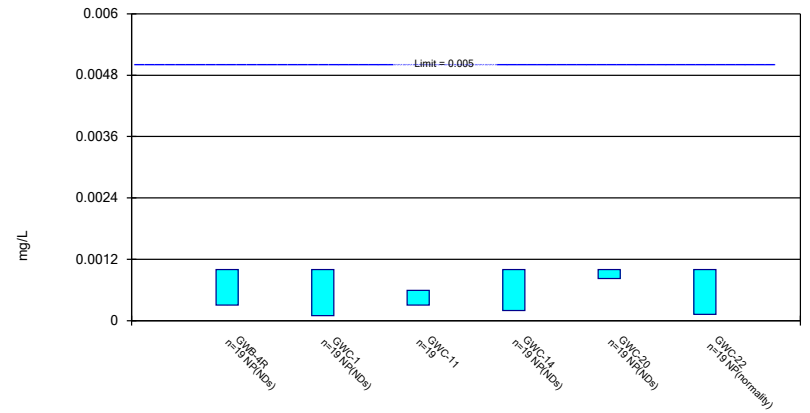
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

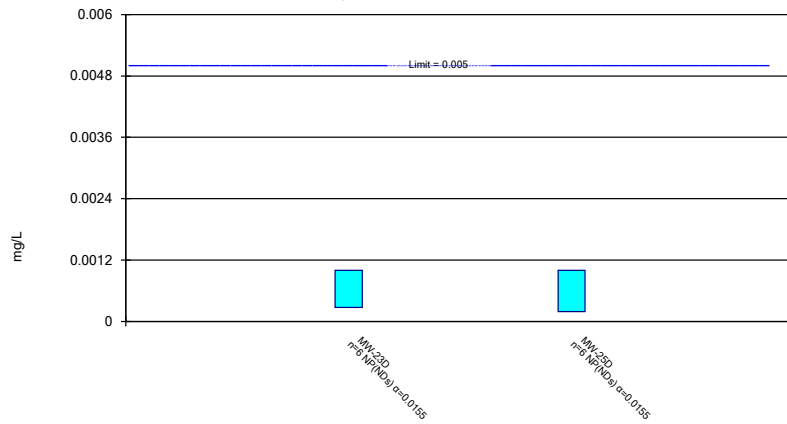
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

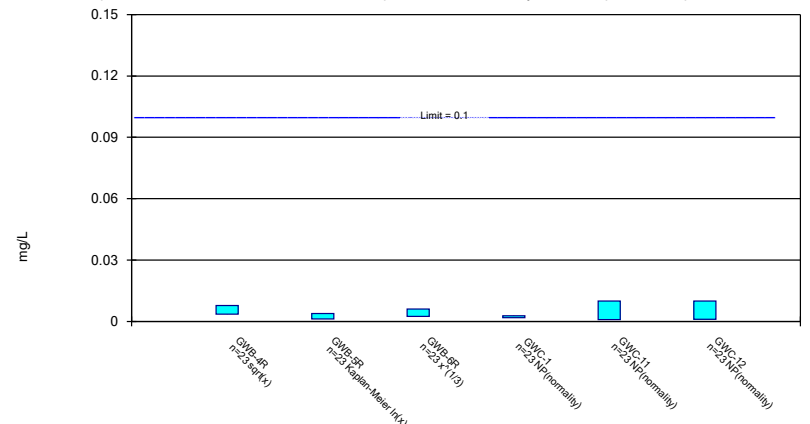
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

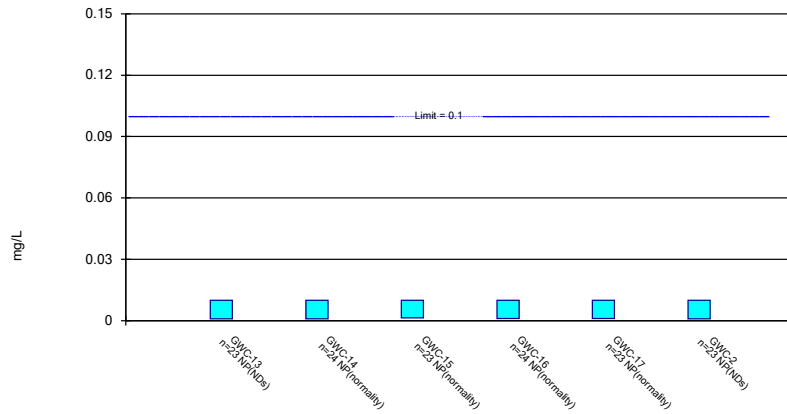
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

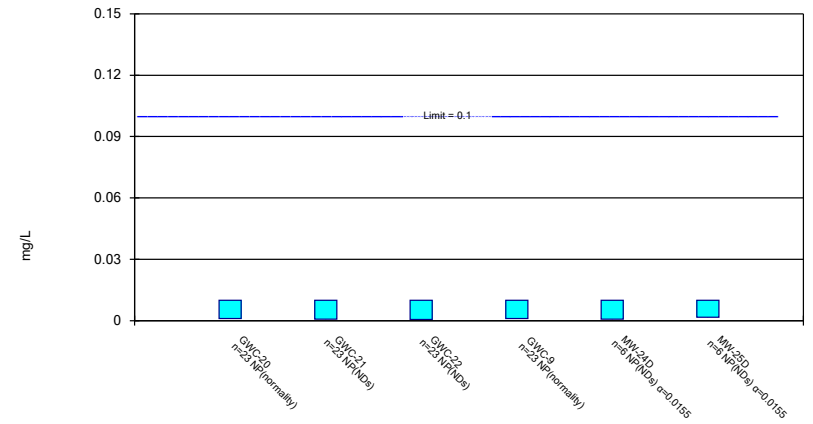
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

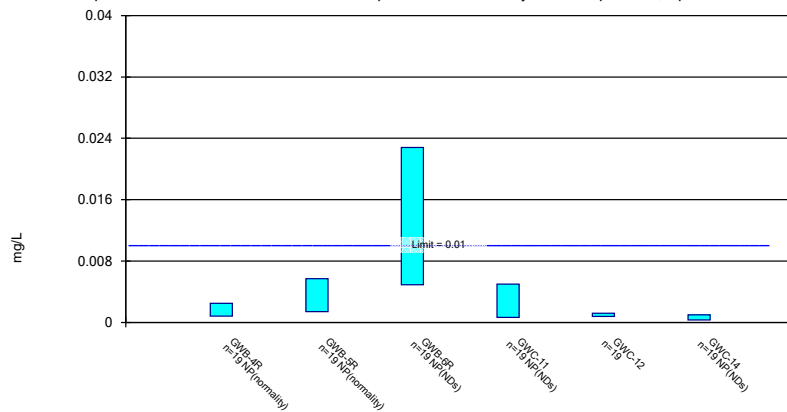
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

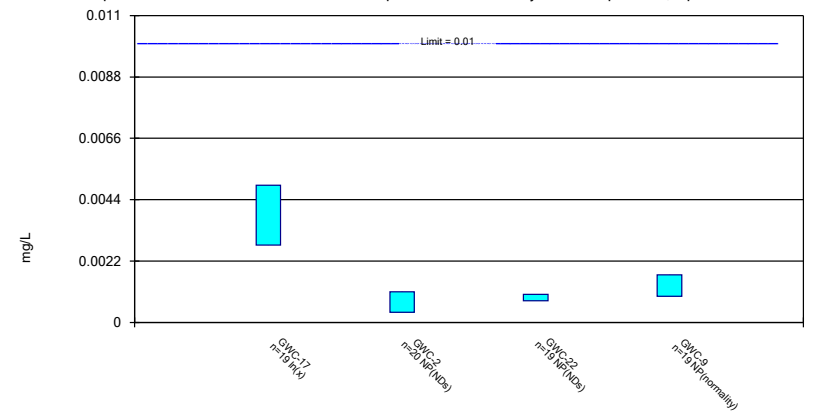
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

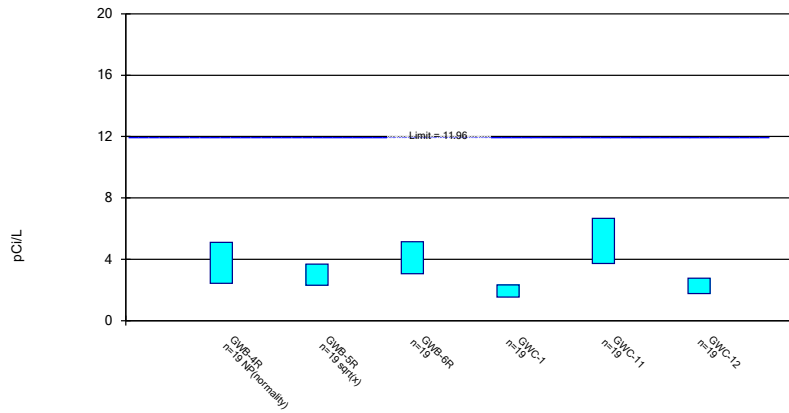
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

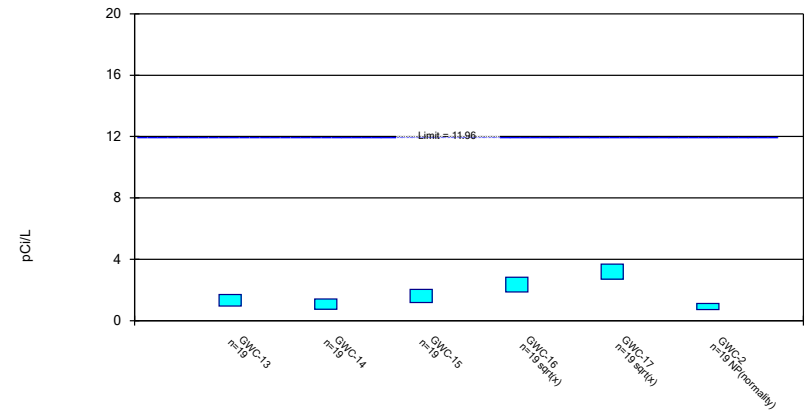
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Con
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

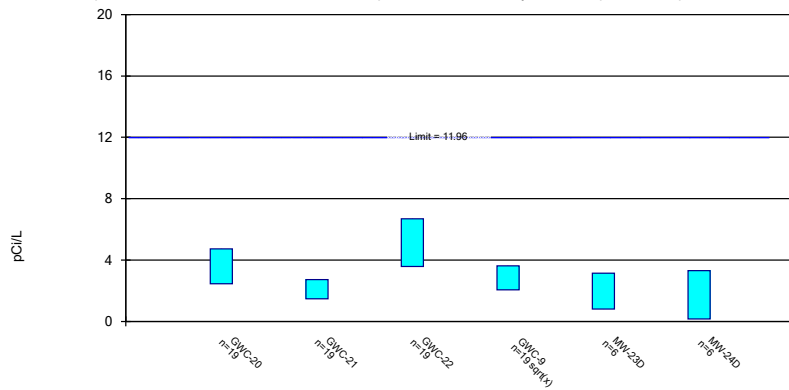
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Con
Grumman Road Landfill Data: Grumman Road Landfill

Parametric Confidence Interval

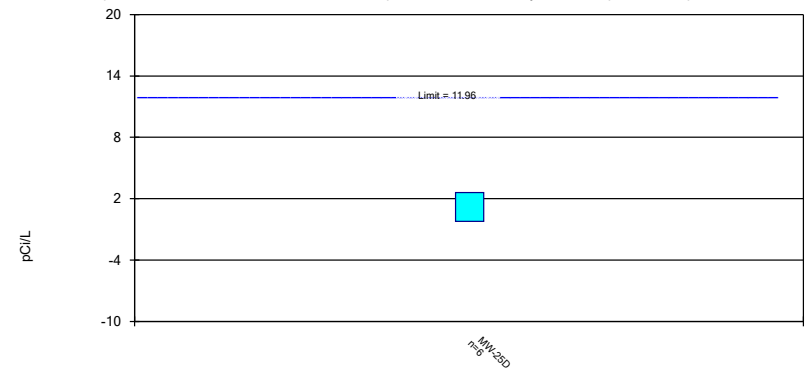
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Con
Grumman Road Landfill Data: Grumman Road Landfill

Parametric Confidence Interval

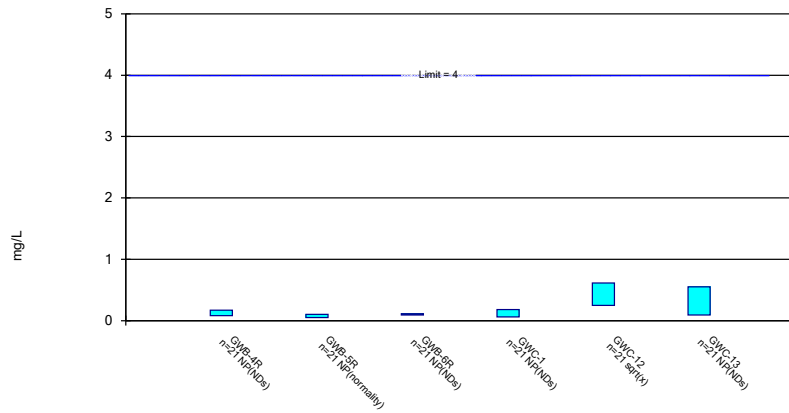
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Con
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

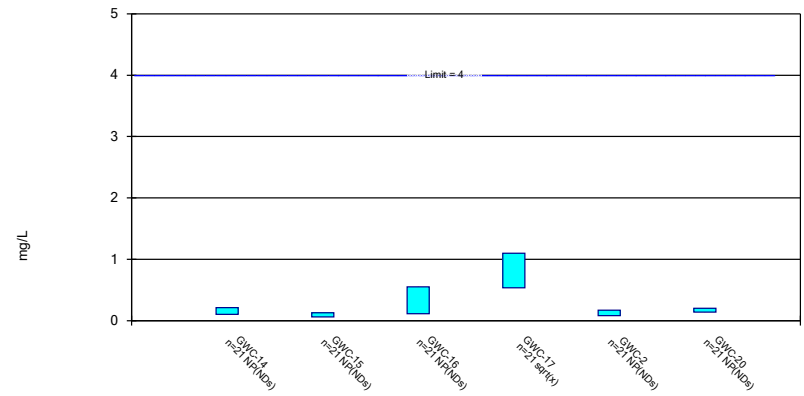
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

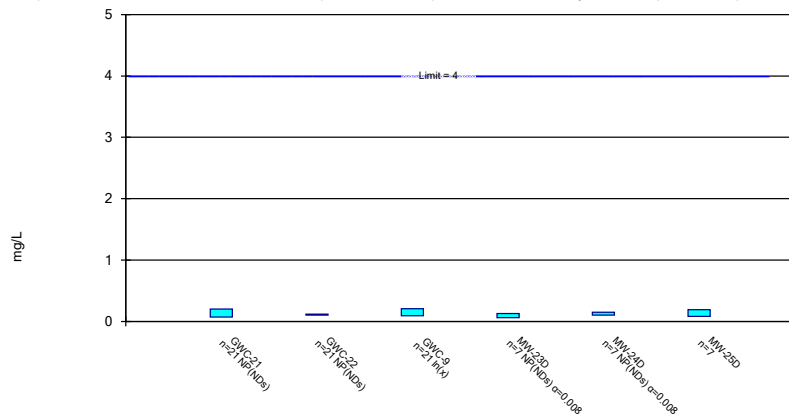
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

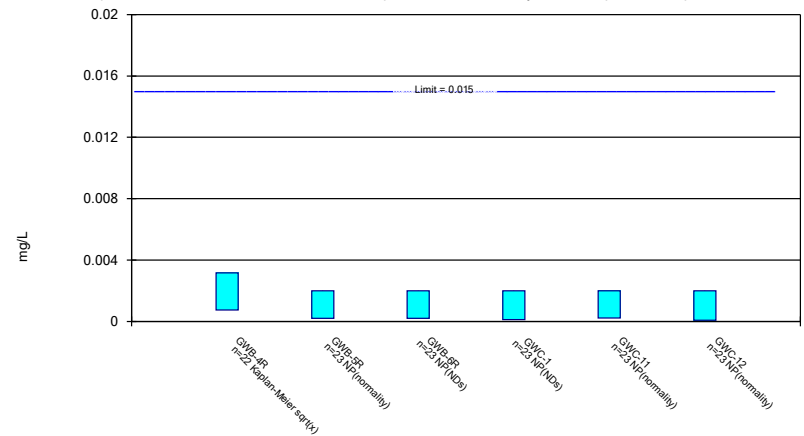
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

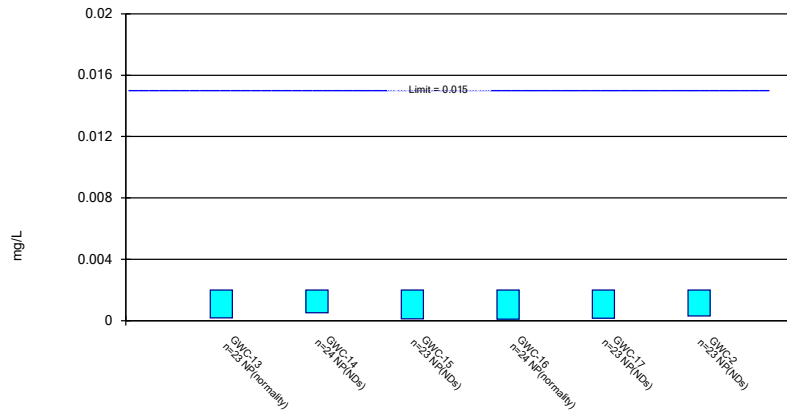
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

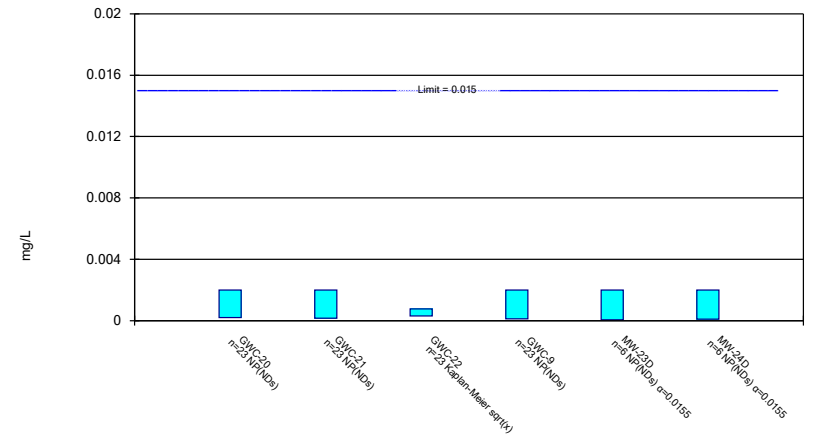
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

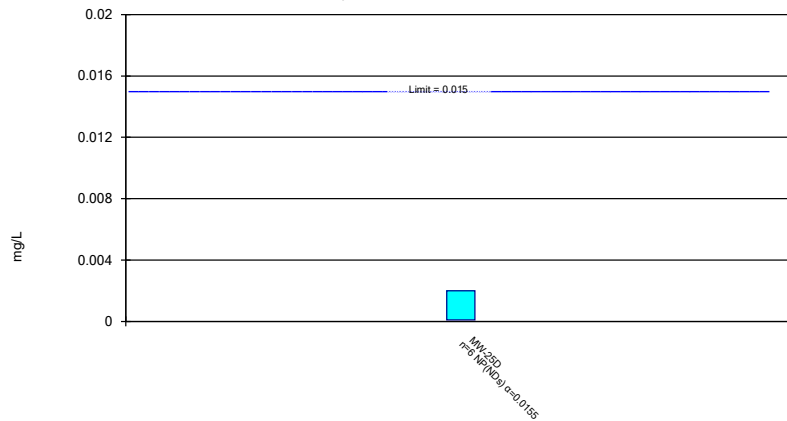
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

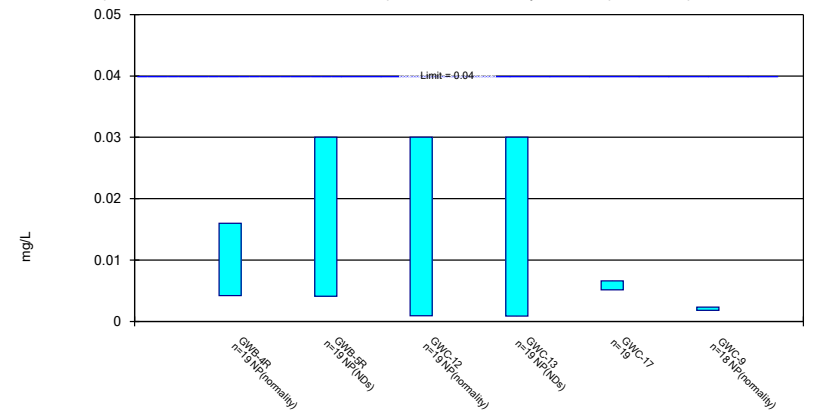
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

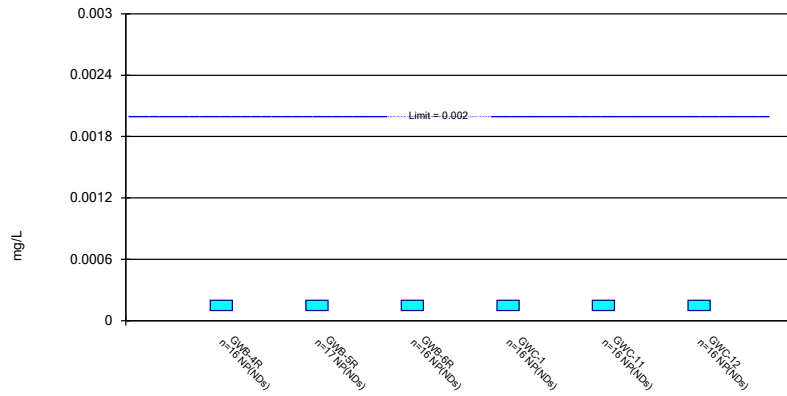
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

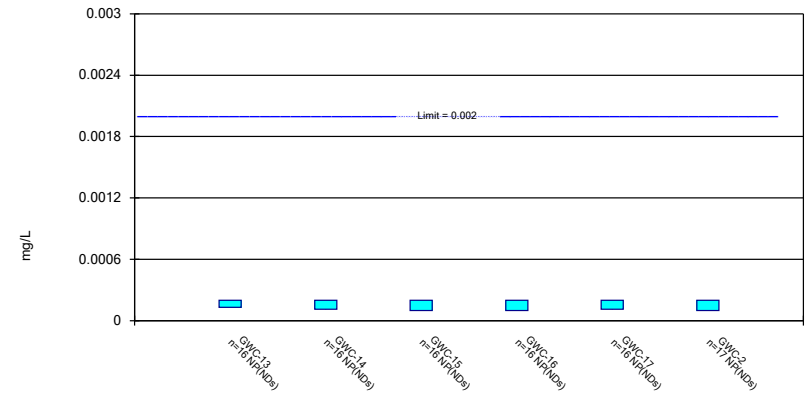
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

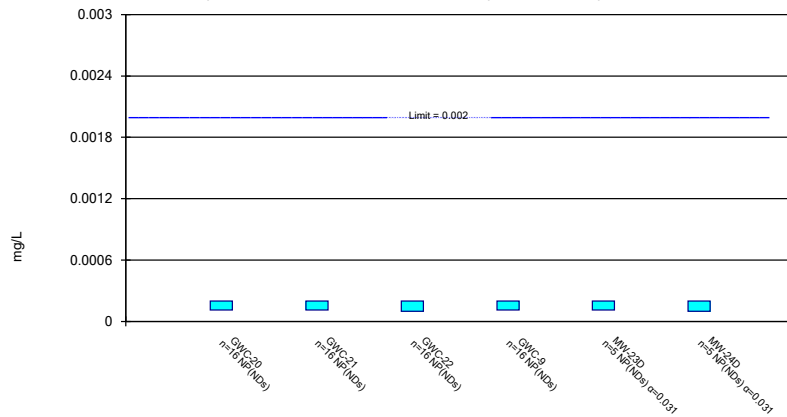
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

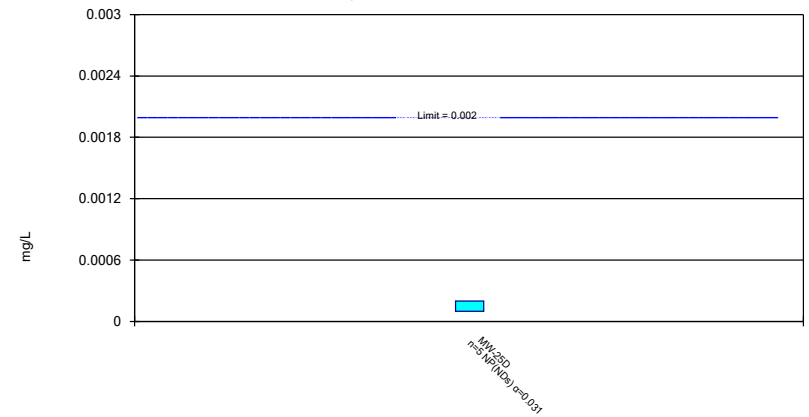
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

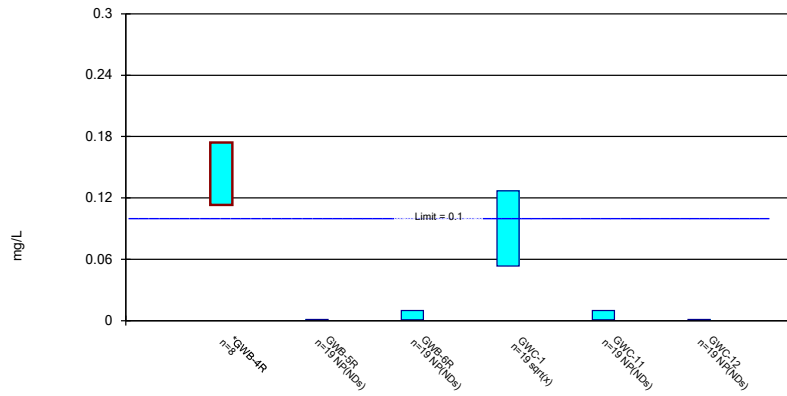
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

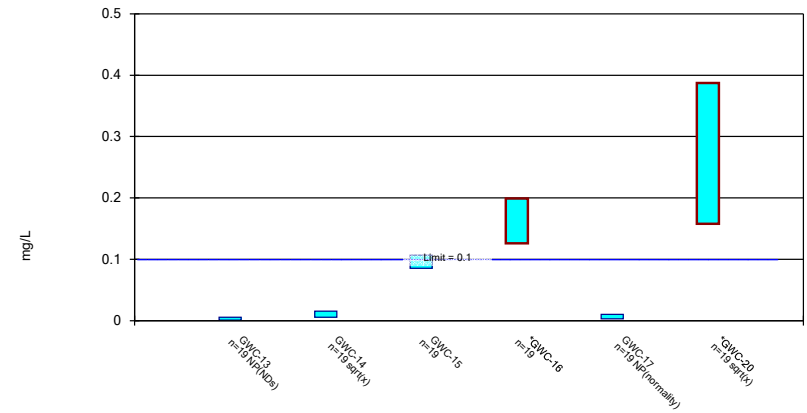
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

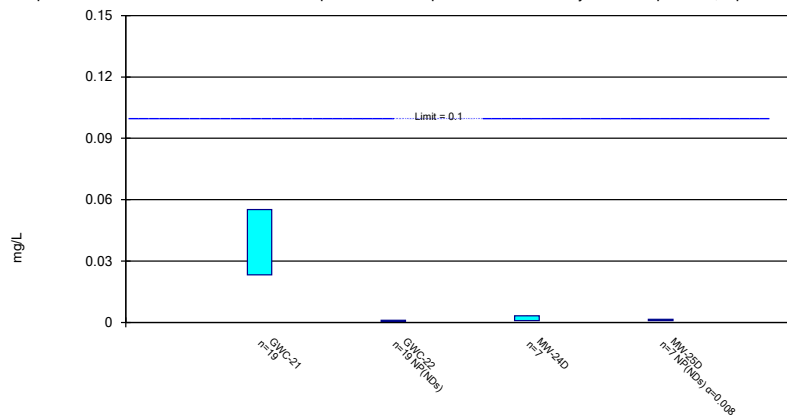
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

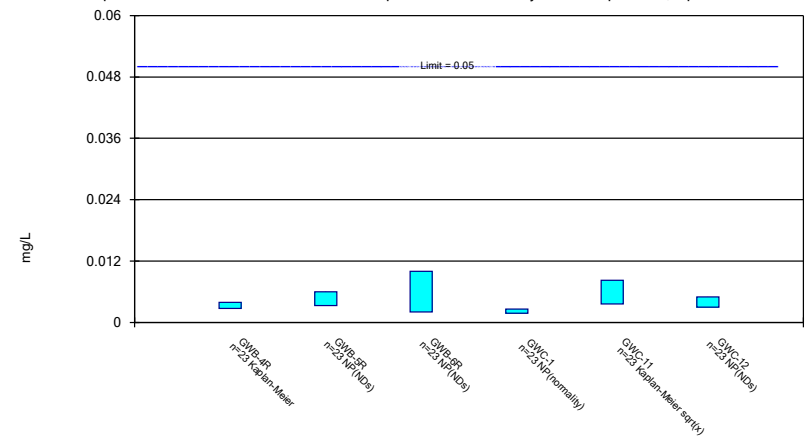
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

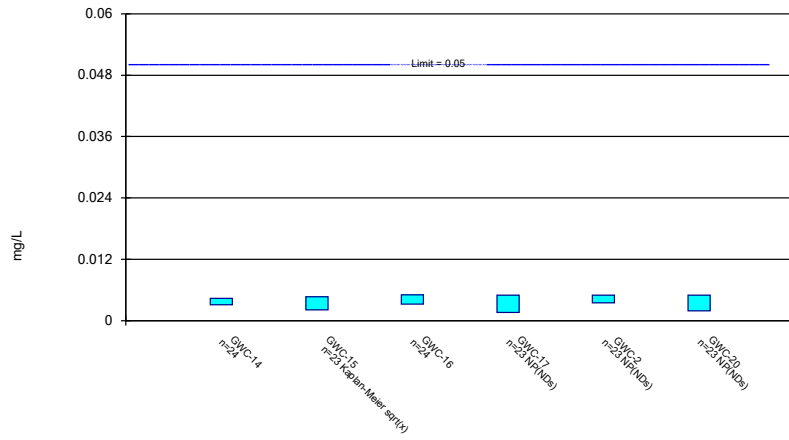
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

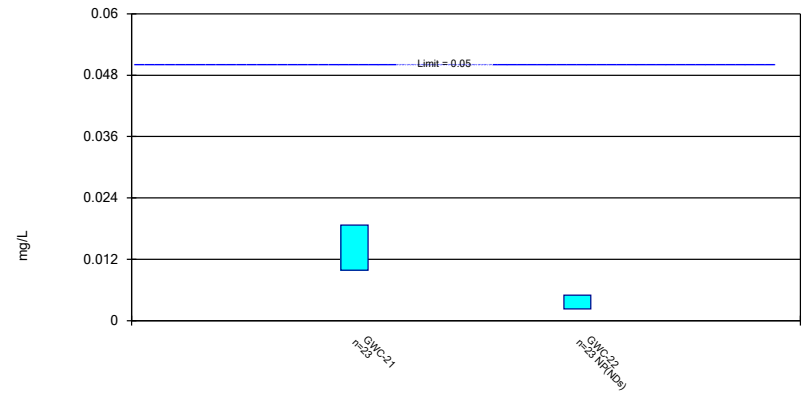
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

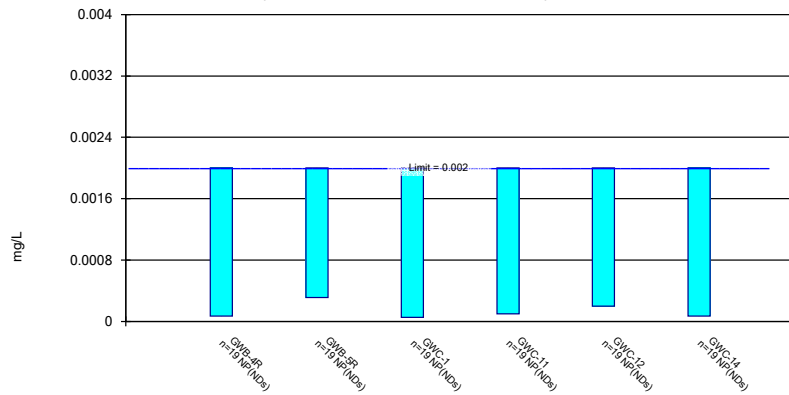
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

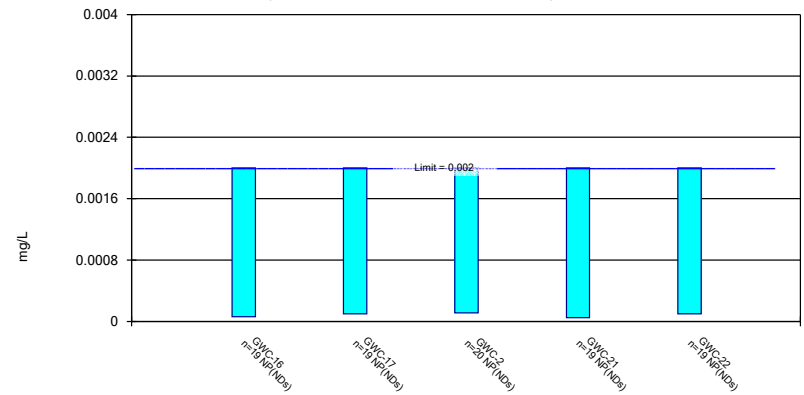
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

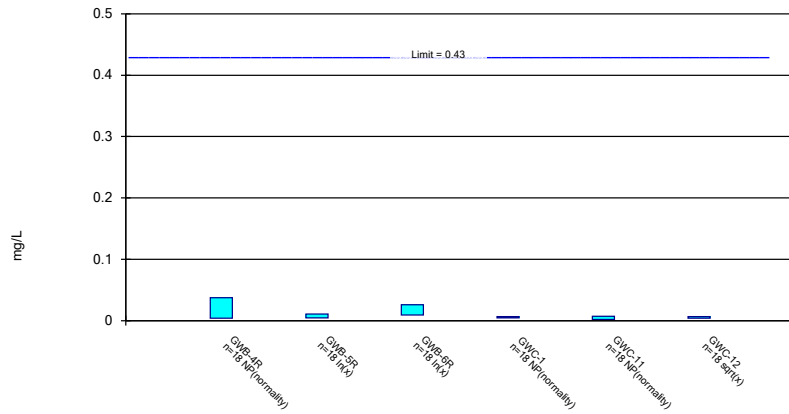
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

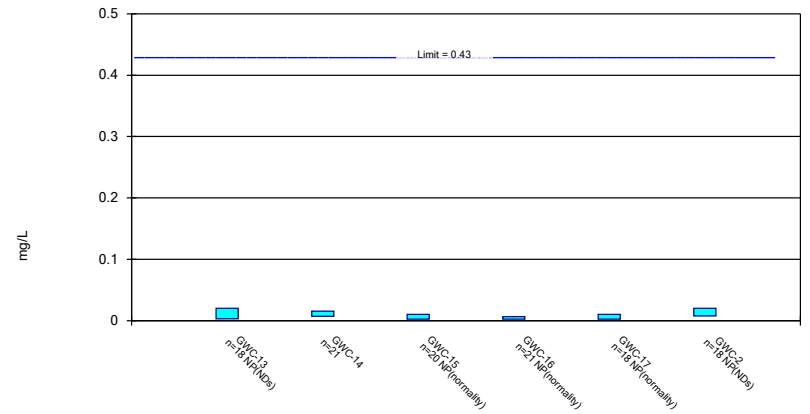
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

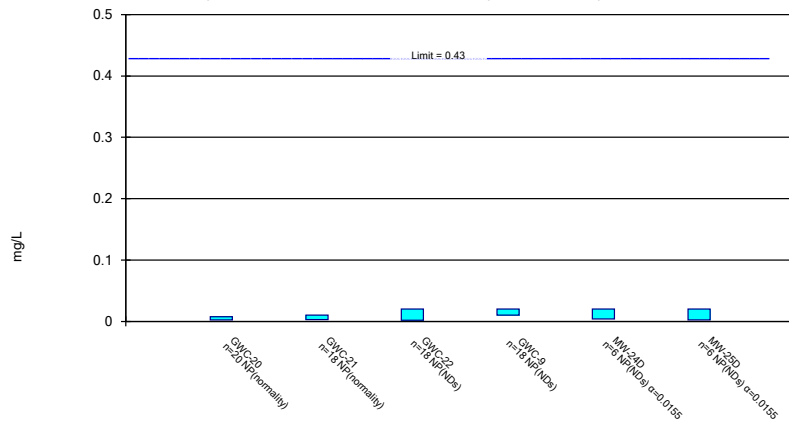
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

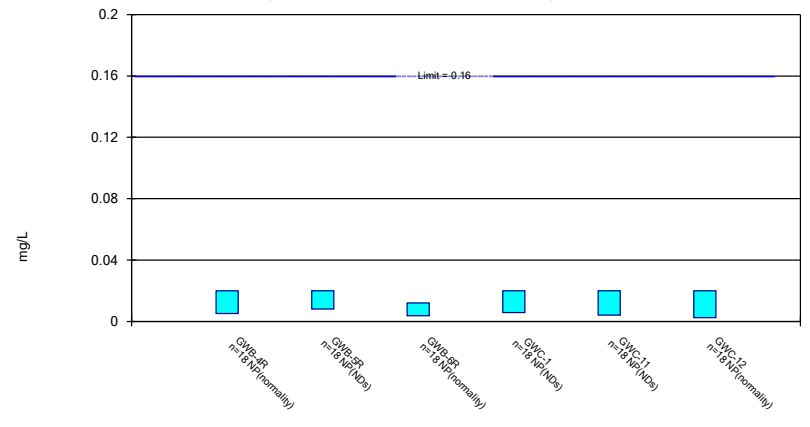
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Vanadium Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Non-Parametric Confidence Interval

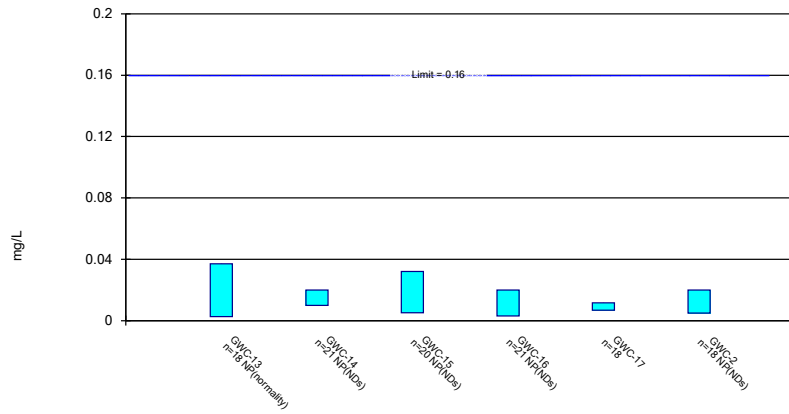
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Zinc Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

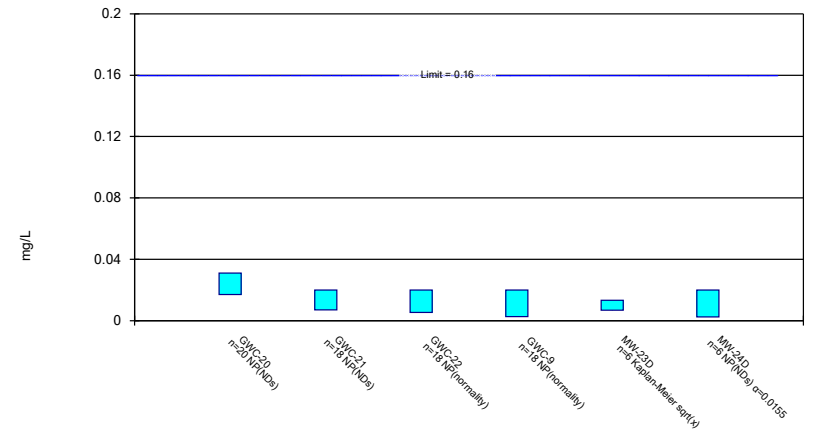
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 2/13/2024 10:09 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Parametric and Non-Parametric (NP) Confidence Interval

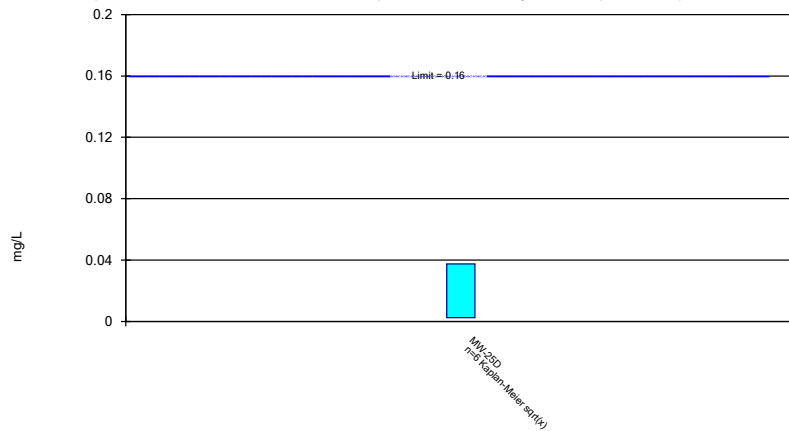
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 2/13/2024 10:10 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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 2/13/2024 10:10 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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		
8/29/2023	<0.003	<0.003	<0.003	<0.003		
9/6/2023					<0.003	<0.003
Mean	0.002883	0.002702	0.002777	0.00262	0.001959	0.002883
Std. Dev.	0.000563	0.000803	0.0007389	0.0008713	0.001218	0.000563
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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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
8/29/2023	<0.003		<0.003	<0.003		
9/6/2023					<0.003	<0.003
9/7/2023		<0.003				
Mean	0.002896	0.002948	0.002811	0.002865	0.00285	0.002884
Std. Dev.	0.0005004	0.0002502	0.0006241	0.0004488	0.0005315	0.0005567
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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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	
8/29/2023	<0.003	<0.003
Mean	0.002571	0.002823
Std. Dev.	0.0009029	0.0006168
Upper Lim.	0.003	0.003
Lower Lim.	0.0022	0.0016

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
1/17/2016				0.024 (O)		
1/18/2016	<0.005	<0.005	<0.025			<0.005
1/19/2016					<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	<0.005
1/5/2017			0.0021 (J)			
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)
7/11/2017					<0.005	
7/12/2017	0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)		
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)	<0.005	
10/4/2017	0.0018 (J)					0.0009 (J)
1/9/2018			0.0017 (J)			
1/10/2018		0.0012 (J)		0.0023 (J)		
1/11/2018	0.0015 (J)				<0.005	<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)		
1/17/2019					<0.005	<0.005
3/25/2019	0.0029 (J)					
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)		
3/27/2019					<0.005	<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	<0.005
8/17/2020						<0.005
8/18/2020					<0.005	
8/19/2020	0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007		
9/28/2020				0.0058		
9/29/2020					<0.005	<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	<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	<0.005	0.0016 (J)
8/30/2022	0.0049 (J)	0.00253 (J)	0.00716			<0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12
8/31/2022					<0.005	
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)		
8/29/2023	0.0057	0.00239 (J)	0.00724	0.00668		
9/6/2023					0.00254 (J)	<0.005
Mean	0.002731	0.002547	0.008236	0.004831	0.004893	0.0043
Std. Dev.	0.001244	0.001648	0.00932	0.005258	0.0005129	0.001568
Upper Lim.	0.003249	0.00215	0.003803	0.005291	0.005	0.005
Lower Lim.	0.002038	0.001182	0.001652	0.002538	0.00254	0.0016

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
1/17/2016		0.002 (J)	0.014	0.089		<0.005
1/18/2016	<0.005				<0.005	
4/26/2016		0.00183 (J)		0.0731		
7/26/2016	<0.005					
7/27/2016		0.0021 (J)	0.0303			<0.005
7/28/2016				0.0627		
7/29/2016					0.0009 (J)	
8/31/2016	<0.005					<0.005
9/1/2016		0.0024 (J)	0.0533	0.0551	<0.005	
10/25/2016		<0.005	0.0551	0.0466		
10/26/2016	<0.005				<0.005	<0.005
1/4/2017				0.0444		
1/5/2017	<0.005	0.0024 (J)	0.0437		<0.005	<0.005
4/3/2017			0.0713			
4/4/2017		0.003 (J)				<0.005
4/5/2017				0.0591	0.0011 (J)	
4/6/2017	<0.005					
7/11/2017		0.0019 (J)	0.0745			
7/12/2017	<0.005			0.0776		
7/13/2017					0.0016 (J)	<0.005
10/2/2017		0.0026 (J)	0.0723			
10/3/2017				0.0813		<0.005
10/4/2017	<0.005				0.0019 (J)	
1/9/2018		0.0021 (J)	0.0731			
1/10/2018	0.0006 (J)			0.085		0.0006 (J)
1/11/2018					0.0015 (J)	
7/9/2018		0.0019 (J)				
7/10/2018			0.09	0.067		<0.005
7/11/2018	<0.005				0.00082 (J)	
1/16/2019	<0.005	0.0016 (J)			<0.005	
1/17/2019			0.13	0.079		
1/21/2019						<0.005
3/26/2019	0.00058 (J)	0.0023 (J)	0.1	0.089	0.0015 (J)	
7/30/2019						0.00039 (J)
8/27/2019	<0.005	0.0017 (J)	0.17			<0.005
8/28/2019				0.091	0.0011 (J)	
10/8/2019	<0.005	0.0017 (J)	0.13	0.088		
10/9/2019					0.0011 (J)	<0.005
4/7/2020		0.0018 (J)	0.24	0.091		
4/8/2020	<0.005				0.0013 (J)	0.00094 (J)
8/17/2020	<0.005					
8/18/2020		0.0012 (J)	0.28	0.045	<0.005	<0.005
9/28/2020	<0.005					
9/29/2020		<0.005				<0.005
9/30/2020			0.24	0.044	0.0012 (J)	
3/11/2021					0.0009 (J)	
3/12/2021			0.16			
3/15/2021	<0.005					<0.005
3/16/2021		<0.005		0.064		
9/21/2021	<0.005					
9/22/2021		0.0014 (J)		0.081	<0.005	<0.005
9/23/2021			0.21			

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
2/1/2022				0.095	<0.005	
2/2/2022		0.0036 (J)				<0.005
2/3/2022	0.0025 (J)		0.23			
8/30/2022		<0.005				
8/31/2022	<0.005		0.259		<0.005	
9/1/2022				0.0987		<0.005
2/1/2023	<0.005			0.115	<0.005	
2/2/2023		0.00261 (J)	0.207			<0.005
8/29/2023	<0.005				<0.005	<0.005
9/6/2023		0.00244 (J)		0.12		
9/7/2023			0.287			
Mean	0.004508	0.002607	0.2341	0.07673	0.00304	0.004432
Std. Dev.	0.001341	0.001207	0.04206	0.02124	0.001933	0.001503
Upper Lim.	0.005	0.002263	0.2787	0.08757	0.005	0.005
Lower Lim.	0.0025	0.001697	0.1895	0.06589	0.0011	0.00094

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-25D
1/17/2016	0.34	0.0065			
1/18/2016			<0.005	<0.005	
7/28/2016	0.209	<0.005		<0.005	
7/29/2016			0.002 (J)		
8/31/2016			0.0017 (J)	<0.005	
9/1/2016	0.215	0.0039 (J)			
10/25/2016	0.307	<0.005			
10/26/2016			<0.005		
10/27/2016				<0.005	
1/4/2017	0.311	<0.005	<0.005		
1/6/2017				<0.005	
4/4/2017	0.317	0.0031 (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		<0.005			
10/2/2017	0.216				
10/3/2017		<0.005			
10/4/2017			0.0025 (J)	<0.005	
1/9/2018		0.0033 (J)			
1/10/2018	0.347				
1/11/2018			0.0006 (J)	<0.005	
7/9/2018	0.37				
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	
1/21/2019	0.44				
3/25/2019	0.41				
3/26/2019		0.0045 (J)			
3/27/2019			<0.005	<0.005	
8/27/2019			0.00044 (J)		
8/28/2019	0.43	0.002 (J)		<0.005	
10/8/2019		0.0028 (J)			
10/9/2019	0.35		<0.005	<0.005	
4/7/2020		<0.005	0.00043 (J)		
4/8/2020	0.33			0.00084 (J)	
8/18/2020	0.3	0.0059	<0.005		
8/19/2020				<0.005	
9/30/2020	0.31	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)
3/12/2021	0.27				
3/16/2021		0.0098			
9/21/2021			<0.005		
9/22/2021	0.23	<0.005		<0.005	
9/23/2021					<0.005
2/1/2022	0.22	0.02			
2/2/2022				<0.005	
2/3/2022			<0.005		<0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-25D
8/30/2022	0.465	0.0271			
8/31/2022			<0.005		<0.005
9/1/2022				<0.005	
2/1/2023	0.389			<0.005	
2/2/2023		0.0323	<0.005		<0.005
8/29/2023			0.00216 (J)	<0.005	
9/6/2023	0.258	0.0323			
9/7/2023					<0.005
Mean	0.3188	0.008535	0.00338	0.004819	0.004417
Std. Dev.	0.07531	0.009492	0.001952	0.0008674	0.001542
Upper Lim.	0.3582	0.0065	0.005	0.005	0.005
Lower Lim.	0.2794	0.0031	0.0012	0.00084	0.00092

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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		
8/29/2023	0.16	0.0643	0.0196	0.0637		
9/6/2023					0.192	0.0273
Mean	0.09565	0.1153	0.06341	0.0542	0.1039	0.02041
Std. Dev.	0.02685	0.05486	0.0419	0.005693	0.04659	0.004776
Upper Lim.	0.0994	0.1371	0.106	0.05717	0.1283	0.025
Lower Lim.	0.076	0.08601	0.0196	0.05122	0.07954	0.0172

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
8/29/2023	0.0712				0.0295	0.0452
9/6/2023		0.0833		0.143		
9/7/2023			0.0573			
Mean	0.02787	0.04664	0.04618	0.1236	0.07465	0.05228
Std. Dev.	0.01162	0.02748	0.009206	0.07456	0.05436	0.007227
Upper Lim.	0.03126	0.073	0.05099	0.1636	0.09044	0.053
Lower Lim.	0.02197	0.026	0.04136	0.08359	0.04389	0.049

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
8/29/2023			0.127	0.138		
9/6/2023	0.178	0.232			0.0732	0.034
Mean	0.1756	0.1037	0.07572	0.2057	0.07345	0.03475
Std. Dev.	0.114	0.0687	0.03045	0.06231	0.006842	0.007626
Upper Lim.	0.2008	0.1258	0.09165	0.2383	0.08044	0.04523
Lower Lim.	0.1062	0.06277	0.05979	0.1731	0.06523	0.02427

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/7/2023	0.029
Mean	0.02565
Std. Dev.	0.003228
Upper Lim.	0.03009
Lower Lim.	0.02121

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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					
8/29/2023	<0.0005	<0.0005	<0.0005			<0.0005
9/6/2023				<0.0005	0.000521	
Mean	0.0003895	0.0002706	0.0004524	0.0004762	0.0006436	0.0004767
Std. Dev.	0.0001792	0.0001753	0.0001425	0.0001039	0.0002056	0.0001014
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0007306	0.0005
Lower Lim.	0.0001	9.9E-05	5E-05	4.7E-05	0.0005212	5.8E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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	
8/29/2023			0.00174	<0.0005	<0.0005	<0.0005
9/6/2023	<0.0005	<0.0005				
Mean	0.0004343	0.0002808	0.002152	0.0003839	0.0003598	0.0002376

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-14	GWC-16	GWC-17	GWC-2	GWC-22	GWC-9
Std. Dev.	0.000156	0.0002139	0.0008179	0.0001881	0.0001914	4.803E-05
Upper Lim.	0.0005	0.0005	0.002484	0.0005	0.0005	0.0003
Lower Lim.	0.0001	8E-05	0.001649	9E-05	0.0001	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/7/2023	<0.0005
Mean	0.0004307
Std. Dev.	0.0001698
Upper Lim.	0.0005
Lower Lim.	8.4E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023	0.000304 (J)	<0.001				<0.001
9/6/2023			0.000563 (J)	<0.001	0.000823 (J)	
Mean	0.0007834	0.0009037	0.0004474	0.0006942	0.0008596	0.0005816
Std. Dev.	0.0003748	0.0002885	0.0002428	0.0004121	0.0003097	0.0004186
Upper Lim.	0.001	0.001	0.0005895	0.001	0.001	0.001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWC-1	GWC-11	GWC-14	GWC-20	GWC-22
Lower Lim.	0.000304	0.0001	0.0003052	0.0002	0.000823	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/6/2023	<0.001	
9/7/2023		<0.001
Mean	0.0008783	0.000865
Std. Dev.	0.000298	0.0003307
Upper Lim.	0.001	0.001
Lower Lim.	0.00027	0.00019

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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		
8/29/2023	0.00389 (J)	<0.01	0.00349 (J)	0.00337 (J)		
9/6/2023					<0.01	<0.01
Mean	0.006118	0.008154	0.005035	0.002603	0.005264	0.003897
Std. Dev.	0.004208	0.01453	0.004794	0.001355	0.004623	0.004148
Upper Lim.	0.007686	0.003853	0.006093	0.0028	0.01	0.01
Lower Lim.	0.003586	0.001167	0.002432	0.0018	0.00092	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
8/29/2023	<0.01				<0.01	<0.01
9/6/2023		<0.01		<0.01		
9/7/2023			<0.01			
Mean	0.006447	0.005444	0.004835	0.005528	0.004761	0.006788
Std. Dev.	0.004538	0.004658	0.004254	0.004573	0.004394	0.004498
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0008	0.0009	0.0013	0.001	0.00096	0.0008

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
8/29/2023			<0.01	<0.01		
9/6/2023	<0.01	<0.01			<0.01	
9/7/2023						<0.01
Mean	0.004831	0.005967	0.006321	0.005073	0.008448	0.0086
Std. Dev.	0.004343	0.004704	0.004692	0.004429	0.003801	0.003429
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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023	0.0122	0.00139	0.0709			
9/6/2023				0.000794 (J)	0.000732 (J)	<0.001
Mean	0.002356	0.005084	0.01482	0.003405	0.0009837	0.0009632
Std. Dev.	0.003088	0.005212	0.02222	0.002153	0.0003521	0.0001606
Upper Lim.	0.0025	0.0057	0.0228	0.005	0.00119	0.001
Lower Lim.	0.0008	0.00139	0.0049	0.000646	0.0007776	0.0003

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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	
8/29/2023	0.00268	<0.001	0.000817 (J)	0.000744 (J)
Mean	0.004132	0.000869	0.0009083	0.001264
Std. Dev.	0.002025	0.0002827	0.0001689	0.0004145
Upper Lim.	0.004914	0.0011	0.001	0.0017
Lower Lim.	0.002767	0.00036	0.00077	0.00093

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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		
8/29/2023	3.86	1.63	8.19	2.65		
9/6/2023					9.23	2.02
Mean	3.611	3.069	4.098	1.933	5.195	2.264
Std. Dev.	1.292	1.331	1.794	0.6833	2.496	0.8447
Upper Lim.	5.1	3.693	5.149	2.333	6.657	2.758
Lower Lim.	2.44	2.3	3.048	1.533	3.734	1.769

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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)
8/29/2023	2.36				2.77	2.49
9/6/2023		0.609		3.42		
9/7/2023			2.28			
Mean	1.323	1.074	1.603	2.386	3.226	0.9898

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
Std. Dev.	0.6395	0.5848	0.7401	0.8613	0.8803	0.5164
Upper Lim.	1.698	1.417	2.036	2.82	3.683	1.11
Lower Lim.	0.9487	0.7316	1.169	1.866	2.703	0.725

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
2/1/2023	5.77			4.17	2.44	
2/2/2023		3.73	4.13			2.52 (U)
8/29/2023			11.3	1.44		
9/6/2023	2.12	4.2			3.47	1.73
Mean	3.583	2.1	5.129	2.932	1.977	1.737
Std. Dev.	1.936	1.075	2.664	1.535	0.8464	1.143
Upper Lim.	4.716	2.729	6.689	3.613	3.139	3.307
Lower Lim.	2.449	1.47	3.569	2.06	0.814	0.1671

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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)
2/2/2023	2.98
9/7/2023	1.75
Mean	1.193
Std. Dev.	1.034
Upper Lim.	2.613
Lower Lim.	-0.2281

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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	<0.3	
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		
2/1/2023		0.0546 (J)	<0.1		0.231	0.0423 (J)
2/2/2023	<0.1			<0.1		
8/29/2023	<0.1	<0.1	0.0523 (J)	0.0596 (J)		<0.1
9/6/2023					0.238	
Mean	0.1607	0.08626	0.1134	0.1024	0.4742	0.1136

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12	GWC-13
Std. Dev.	0.2475	0.03852	0.05785	0.03762	0.3697	0.1017
Upper Lim.	0.17	0.1	0.11	0.18	0.6134	0.55
Lower Lim.	0.08	0.05	0.09	0.0596	0.2489	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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		<0.2
10/25/2016	0.43	0.5	0.36			<0.2
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				<0.2
10/3/2017			0.86		0.06 (J)	
10/4/2017				1.8		
1/9/2018	<0.1	<0.1				
1/10/2018			<0.5		<0.1	<0.2
1/11/2018				1.5		
7/9/2018	<0.1					<0.2
7/10/2018		0.15 (J)	<0.5		<0.1	
7/11/2018				1.8		
1/16/2019	<0.1			1.4		
1/17/2019		<0.1	<0.5			
1/21/2019					<0.1	<0.2
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			<0.5	0.61		<0.2
10/8/2019	<0.1	<0.1	<0.5			
10/9/2019				<0.3	<0.1	<0.2
4/7/2020	<0.1	<0.1	<0.5			
4/8/2020				0.55	<0.1	<0.2
8/18/2020	<0.1	<0.1	<0.5	0.51	<0.1	<0.2
9/29/2020	<0.1				<0.1	
9/30/2020		<0.1	<0.5	0.15		<0.2
3/11/2021				0.42		
3/12/2021		<0.1				<0.2
3/15/2021					<0.1	
3/16/2021	<0.1		<0.5			
9/22/2021	<0.1		<0.5	0.79	<0.1	<0.2
9/23/2021		<0.1				
2/1/2022			<0.5	0.68		<0.2
2/2/2022	<0.1				<0.1	
2/3/2022		<0.1				
8/30/2022	<0.1					<0.2
8/31/2022		<0.1		0.442		
9/1/2022			0.0374 (J)		<0.1	
2/1/2023			0.0702 (J)	0.604		<0.2
2/2/2023	<0.1	<0.1			<0.1	
8/29/2023				0.572	<0.1	
9/6/2023	<0.1		<0.5			<0.2

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2	GWC-20
9/7/2023		<0.1				
Mean	0.161	0.1267	0.3966	0.8694	0.1211	0.1735
Std. Dev.	0.1194	0.09068	0.2167	0.5313	0.1163	0.05978
Upper Lim.	0.21	0.13	0.55	1.098	0.17	0.2
Lower Lim.	0.1	0.06	0.11	0.5347	0.083	0.14

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D	MW-25D
8/31/2016		0.04 (J)	0.55			
9/1/2016	<0.2					
10/25/2016	<0.2					
10/26/2016		0.12 (J)				
10/27/2016			0.26 (J)			
1/4/2017	<0.2	0.06 (J)				
1/6/2017			0.25 (J)			
4/4/2017	<0.2					
4/6/2017		<0.1	0.16 (J)			
7/11/2017		0.03 (J)				
7/12/2017			0.2 (J)			
7/13/2017	<0.2					
10/3/2017	<0.2					
10/4/2017		0.12 (J)	0.22 (J)			
1/9/2018	<0.2					
1/11/2018		<0.1	0.98			
7/10/2018	<0.2					
7/11/2018		<0.1	0.14 (J)			
1/17/2019	<0.2					
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	<0.2		0.088 (J)			
10/8/2019	<0.2					
10/9/2019		<0.1	0.068 (J)			
4/7/2020	<0.2	<0.1				
4/8/2020			0.058 (J)			
8/18/2020	<0.2	<0.1				
8/19/2020			0.092 (J)			
9/30/2020	<0.2	<0.1				
10/1/2020			<0.1			
1/20/2021						0.11
1/21/2021				<0.1	<0.1	
3/10/2021		<0.1	0.066 (J)			
3/11/2021				<0.1	<0.1	0.12
3/16/2021	<0.2					
9/21/2021		<0.1				
9/22/2021	<0.2		0.13	<0.1	<0.1	
9/23/2021						0.096 (J)
2/1/2022	<0.2				<0.1	
2/2/2022			<0.1			
2/3/2022		<0.1		<0.1		0.077 (J)
8/30/2022	<0.2					
8/31/2022		<0.1		0.0791 (J)		0.187
9/1/2022			0.0783 (J)		<0.1	
2/1/2023			0.0994 (J)	0.0586 (J)		
2/2/2023	<0.2	<0.1			<0.1	0.152
8/29/2023		0.0758 (J)	0.115			
9/6/2023	<0.2			0.13	0.147	
9/7/2023						0.198
Mean	0.1939	0.09266	0.1917	0.09539	0.1067	0.1343

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-21	GWC-22	GWC-9	MW-23D	MW-24D	MW-25D
Std. Dev.	0.02815	0.02275	0.2132	0.02199	0.01776	0.046
Upper Lim.	0.2	0.12	0.2084	0.13	0.147	0.1889
Lower Lim.	0.071	0.1	0.08905	0.0586	0.1	0.07965

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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		
8/29/2023	<0.002	<0.002	<0.002	<0.002		
9/6/2023					<0.002	<0.002
Mean	0.003135	0.001288	0.001195	0.001668	0.0007917	0.001083
Std. Dev.	0.00265	0.0008792	0.0008842	0.00074	0.0008204	0.001063
Upper Lim.	0.003164	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0007484	0.0002	0.0002	0.00012	0.00021	8.1E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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
8/29/2023	<0.002				<0.002	<0.002
9/6/2023		<0.002		<0.002		
9/7/2023			<0.002			
Mean	0.001112	0.0017	0.001197	0.001069	0.001379	0.001517
Std. Dev.	0.0008553	0.0006903	0.0009386	0.0009515	0.0008832	0.0008331
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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
8/29/2023			0.000511 (J)	<0.002		
9/6/2023	<0.002	<0.002			<0.002	<0.002
Mean	0.001592	0.001348	0.000947	0.001288	0.001676	0.001682
Std. Dev.	0.0007921	0.0009132	0.0008105	0.0009167	0.0007932	0.0007781
Upper Lim.	0.002	0.002	0.0007682	0.002	0.002	0.002
Lower Lim.	0.0002	0.00016	0.0003109	0.00012	5.7E-05	9.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/7/2023	<0.002
Mean	0.001683
Std. Dev.	0.0007777
Upper Lim.	0.002
Lower Lim.	9.5E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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					
8/29/2023	0.0191	<0.03		<0.03	0.00502 (J)	<0.03
9/6/2023			<0.03			
Mean	0.01081	0.02035	0.01473	0.02693	0.005859	0.006589
Std. Dev.	0.005484	0.013	0.01489	0.009201	0.001256	0.01078
Upper Lim.	0.016	0.03	0.03	0.03	0.006594	0.0023

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-12	GWC-13	GWC-17	GWC-9
Lower Lim.	0.0042	0.0041	0.00094	0.00087	0.005124	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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		
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002		
9/6/2023					<0.0002	<0.0002
Mean	0.0001843	0.0001875	0.0001839	0.0001837	0.0001937	0.0001937
Std. Dev.	4.387E-05	3.544E-05	4.511E-05	4.573E-05	2.5E-05	2.5E-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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023	<0.0002				<0.0002	<0.0002
9/6/2023		<0.0002		<0.0002		
9/7/2023			<0.0002			
Mean	0.0001894	0.0001944	0.0001937	0.0001937	0.0001944	0.0001941
Std. Dev.	2.955E-05	2.25E-05	2.5E-05	2.5E-05	2.25E-05	2.425E-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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023			<0.0002	<0.0002		
9/6/2023	<0.0002	<0.0002			<0.0002	<0.0002
Mean	0.0001944	0.0001944	0.0001937	0.000185	0.000182	0.00018
Std. Dev.	2.25E-05	2.25E-05	2.5E-05	4.243E-05	4.025E-05	4.472E-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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/7/2023	<0.0002
Mean	0.00018
Std. Dev.	4.472E-05
Upper Lim.	0.0002
Lower Lim.	0.0001

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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		
8/29/2023	0.136	<0.001	0.000729 (J)	0.0293		
9/6/2023					0.000804 (J)	<0.001
Mean	0.1436	0.0009942	0.006245	0.09699	0.007605	0.0009582
Std. Dev.	0.02875	8.675E-05	0.004543	0.06661	0.004124	0.0001824
Upper Lim.	0.1741	0.0012	0.01	0.1268	0.01	0.001
Lower Lim.	0.1131	0.00069	0.00085	0.05336	0.000804	0.000205

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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			
8/29/2023	<0.001				0.00312	
9/6/2023		0.0199		0.0886		0.753
9/7/2023			0.0588			
Mean	0.001242	0.01152	0.09602	0.1626	0.006189	0.2951

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
Std. Dev.	0.001055	0.009327	0.01803	0.06219	0.00346	0.2162
Upper Lim.	0.0056	0.01541	0.1066	0.1991	0.01	0.3876
Lower Lim.	0.001	0.005281	0.08546	0.1262	0.003	0.1578

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023		<0.001		
9/6/2023	0.0458		0.000882 (J)	
9/7/2023				<0.001
Mean	0.03925	0.0009649	0.002036	0.001066
Std. Dev.	0.02727	0.0001528	0.001023	0.0002034
Upper Lim.	0.05521	0.001	0.003251	0.0015
Lower Lim.	0.02328	0.000334	0.0008212	0.000863

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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)		
8/29/2023	0.00261 (J)	<0.005	0.00204 (J)	0.00182 (J)		
9/6/2023					0.0036 (J)	<0.005
Mean	0.004088	0.004794	0.00841	0.003363	0.007751	0.004539
Std. Dev.	0.001252	0.001133	0.009859	0.004416	0.0058	0.001044
Upper Lim.	0.003901	0.006	0.01	0.0026	0.008233	0.005
Lower Lim.	0.002699	0.0033	0.00204	0.0018	0.003606	0.003

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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	
8/29/2023				<0.005	<0.005	
9/6/2023	0.00516		0.00161 (J)			<0.005
9/7/2023		<0.005				
Mean	0.003728	0.005092	0.004134	0.003739	0.004804	0.003966
Std. Dev.	0.001263	0.00278	0.001783	0.001708	0.0006865	0.001612
Upper Lim.	0.004373	0.00466	0.005044	0.005	0.005	0.005
Lower Lim.	0.003084	0.002123	0.003225	0.0016	0.0035	0.00192

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023		<0.005
9/6/2023	0.00554	
Mean	0.01427	0.00443
Std. Dev.	0.008437	0.00129
Upper Lim.	0.01868	0.005
Lower Lim.	0.009858	0.0023

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023	<0.002	<0.002	<0.002			
9/6/2023				<0.002	<0.002	<0.002
Mean	0.001797	0.001809	0.001693	0.001217	0.001236	0.001796
Std. Dev.	0.0006085	0.0005743	0.0007295	0.0009445	0.0009214	0.0006101

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-1	GWC-11	GWC-12	GWC-14
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	0.0002	7E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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
8/29/2023		<0.002	<0.002		<0.002
9/6/2023	<0.002			<0.002	
Mean	0.001795	0.001395	0.001906	0.001897	0.001499
Std. Dev.	0.0006133	0.0009156	0.0004226	0.0004474	0.0008616
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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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)		
8/29/2023	0.0201	0.00917 (J)	0.0226	0.0146 (J)		
9/6/2023					0.00685 (J)	0.0101 (J)
Mean	0.0185	0.009087	0.02249	0.005508	0.004105	0.005283
Std. Dev.	0.01611	0.008212	0.02338	0.002651	0.002967	0.002054
Upper Lim.	0.0371	0.01059	0.02593	0.0064	0.00685	0.006386
Lower Lim.	0.0037	0.004573	0.009097	0.0042	0.0021	0.003949

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/29/2023	0.0188 (J)				0.0108 (J)	0.00777 (J)
9/6/2023		0.00671 (J)		0.00631 (J)		
9/7/2023			0.00462 (J)			
Mean	0.01533	0.01118	0.00499	0.01227	0.006322	0.01748
Std. Dev.	0.007789	0.007492	0.003486	0.01879	0.003606	0.005868
Upper Lim.	0.02	0.01532	0.01	0.0065	0.01	0.02
Lower Lim.	0.0029	0.007052	0.0022	0.0026	0.0026	0.00777

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill 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
8/29/2023			0.0353	0.0103 (J)		
9/6/2023	0.00768 (J)	0.0101 (J)			<0.02	
9/7/2023						<0.02
Mean	0.005225	0.005396	0.01406	0.01657	0.01736	0.01707
Std. Dev.	0.003146	0.003194	0.01013	0.006838	0.006475	0.007185
Upper Lim.	0.00768	0.01	0.02	0.02	0.02	0.02

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9	MW-24D	MW-25D
Lower Lim.	0.0026	0.0029	0.002	0.0103	0.00414	0.0024

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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	<0.02
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	<0.02
9/21/2021	<0.02	<0.02	<0.01		<0.02	<0.02
9/23/2021				<0.02		
2/2/2022	<0.02		<0.01			
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)		
2/1/2023		<0.02	0.0121 (J)		<0.02	0.00334 (J)
2/2/2023	<0.02			<0.02		
8/29/2023	<0.02	<0.02	0.0406	<0.02		
9/6/2023					0.00479 (J)	<0.02
Mean	0.01214	0.01634	0.01051	0.01579	0.01459	0.009313
Std. Dev.	0.006914	0.007165	0.008417	0.007155	0.00791	0.008728
Upper Lim.	0.02	0.02	0.0121	0.02	0.02	0.02
Lower Lim.	0.0052	0.0081	0.0036	0.00578	0.004	0.0025

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-2
8/29/2023	0.0194 (J)				0.00535 (J)	<0.02
9/6/2023		<0.02		<0.02		
9/7/2023			<0.02			
Mean	0.02064	0.01712	0.01905	0.01422	0.009149	0.01694
Std. Dev.	0.01713	0.006242	0.005646	0.007898	0.003977	0.01238
Upper Lim.	0.037	0.02	0.032	0.02	0.01156	0.02
Lower Lim.	0.0027	0.01	0.0051	0.0031	0.006743	0.005

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
 Grumman Road Landfill 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)
2/1/2023	<0.02			<0.02	0.0121 (J)	
2/2/2023		<0.02	<0.02			<0.02
8/29/2023			0.0054 (J)	<0.02		
9/6/2023	<0.02	<0.02			<0.02	<0.02
Mean	0.01882	0.015	0.01316	0.01099	0.0149	0.01545
Std. Dev.	0.005643	0.007552	0.007455	0.008635	0.005858	0.007458
Upper Lim.	0.031	0.02	0.02	0.02	0.01316	0.02
Lower Lim.	0.0171	0.0071	0.0054	0.0026	0.006698	0.0025

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 2/13/2024 10:11 AM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill 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
9/7/2023	<0.02
Mean	0.02208
Std. Dev.	0.01525
Upper Lim.	0.0375
Lower Lim.	0.002363

FIGURE K.

Appendix IV Trend Tests - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:10 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>
Arsenic (mg/L)	GWC-15	0.03389	203	76	Yes	23	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-16	0.005308	110	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWB-4R	0.02124	91	58	Yes	19	0	n/a	n/a	0.05	NP

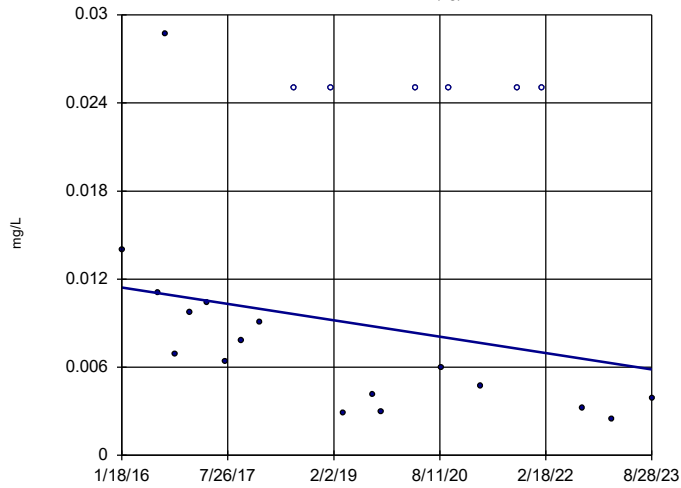
Appendix IV Trend Tests - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 11/20/2023, 1:10 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>
Arsenic (mg/L)	GWA-7 (bg)	-0.0007316	-60	-76	No	23	26.09	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWA-8 (bg)	0	40	81	No	24	75	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-15	0.03389	203	76	Yes	23	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-16	0.005308	110	81	Yes	24	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GWC-20	0.004073	25	76	No	23	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-22	-58	No	19	68.42	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	58	No	19	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWB-4R	0.02124	91	58	Yes	19	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWC-16	0.009817	36	58	No	19	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GWC-20	0.03366	29	58	No	19	0	n/a	n/a	0.05	NP

Sen's Slope Estimator

GWA-7 (bg)

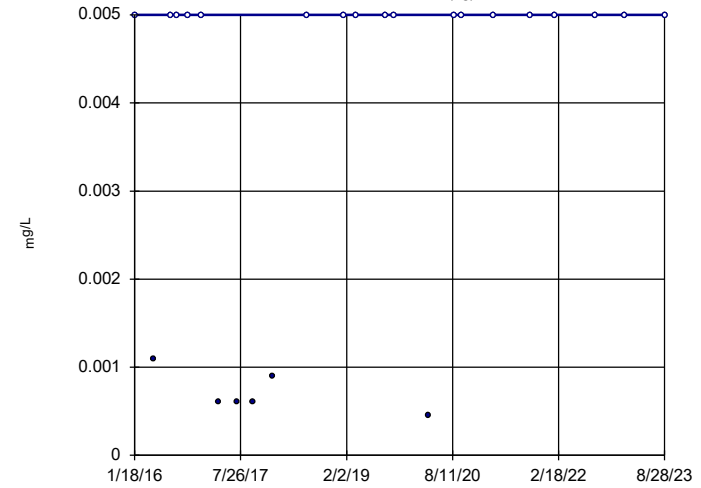


n = 23
Slope = -0.0007316
units per year.
Mann-Kendall
statistic = -60
critical = -76
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWA-8 (bg)

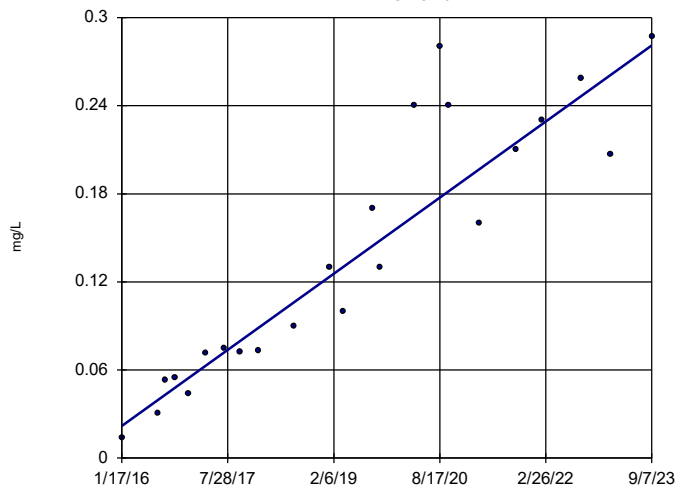


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = 40
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-15

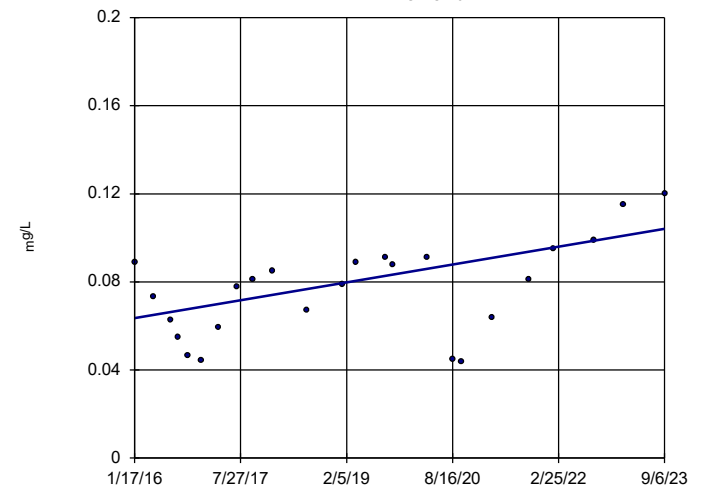


n = 23
Slope = 0.03389
units per year.
Mann-Kendall
statistic = 203
critical = 76
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

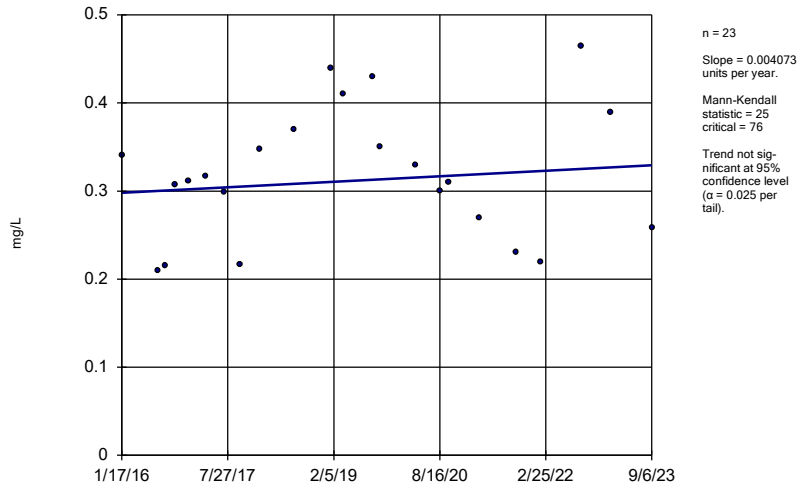


n = 24
Slope = 0.005308
units per year.
Mann-Kendall
statistic = 110
critical = 81
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Arsenic Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20

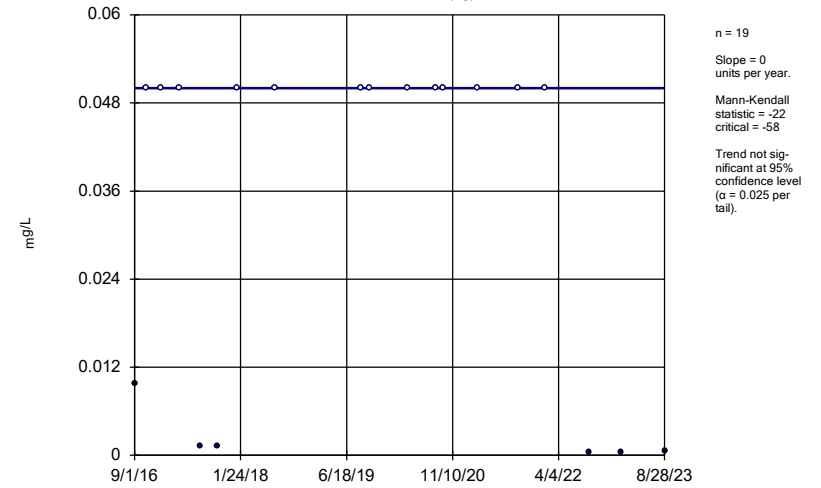


Constituent: Arsenic Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)

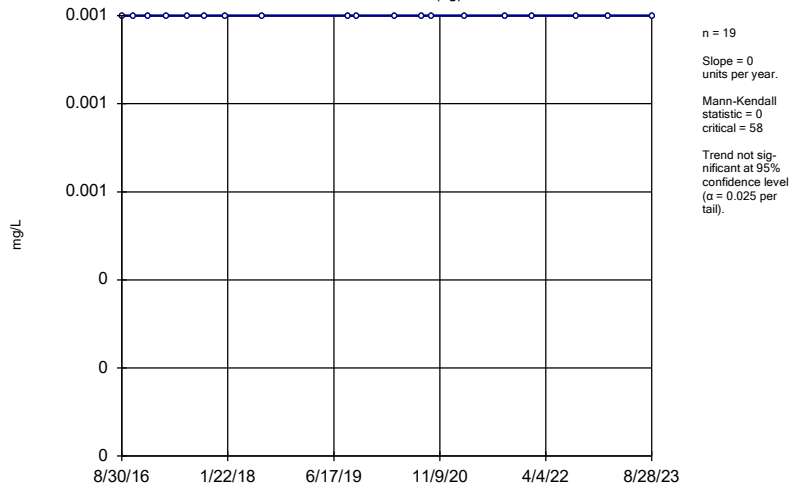


Constituent: Molybdenum Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

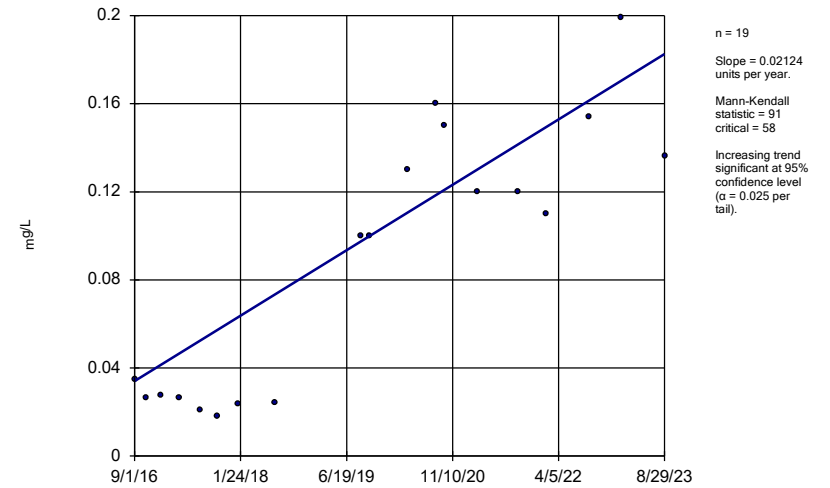
GWA-8 (bg)



Constituent: Molybdenum Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

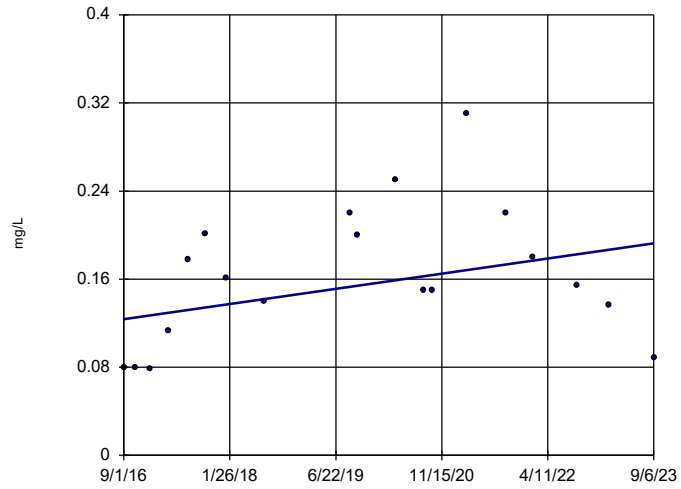
GWB-4R



Constituent: Molybdenum Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-16

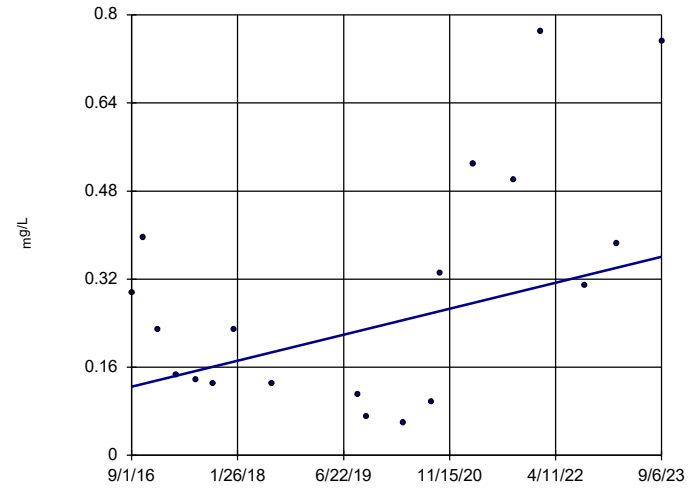


n = 19
Slope = 0.009817
units per year.
Mann-Kendall
statistic = 36
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sen's Slope Estimator

GWC-20



n = 19
Slope = 0.03366
units per year.
Mann-Kendall
statistic = 29
critical = 58
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 11/20/2023 1:08 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

APPENDIX C

Potable Well Survey

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

Grumman Road Landfill

135 Gulfstream Road
Savannah, GA 31408

Inquiry Number: 7530949.1s
January 03, 2024

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

GRUMMAN ROAD LANDFILL
135 GULFSTREAM ROAD
SAVANNAH, GA 31408

TARGET PROPERTY COORDINATES

Latitude (North):	32.142978 - 32° 8' 34.72"
Longitude (West):	81.184041 - 81° 11' 2.55"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	482643.0
UTM Y (Meters):	3556110.5
Elevation:	41 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	32081-B2 PORT WENTWORTH, GA SC
Version Date:	1998

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

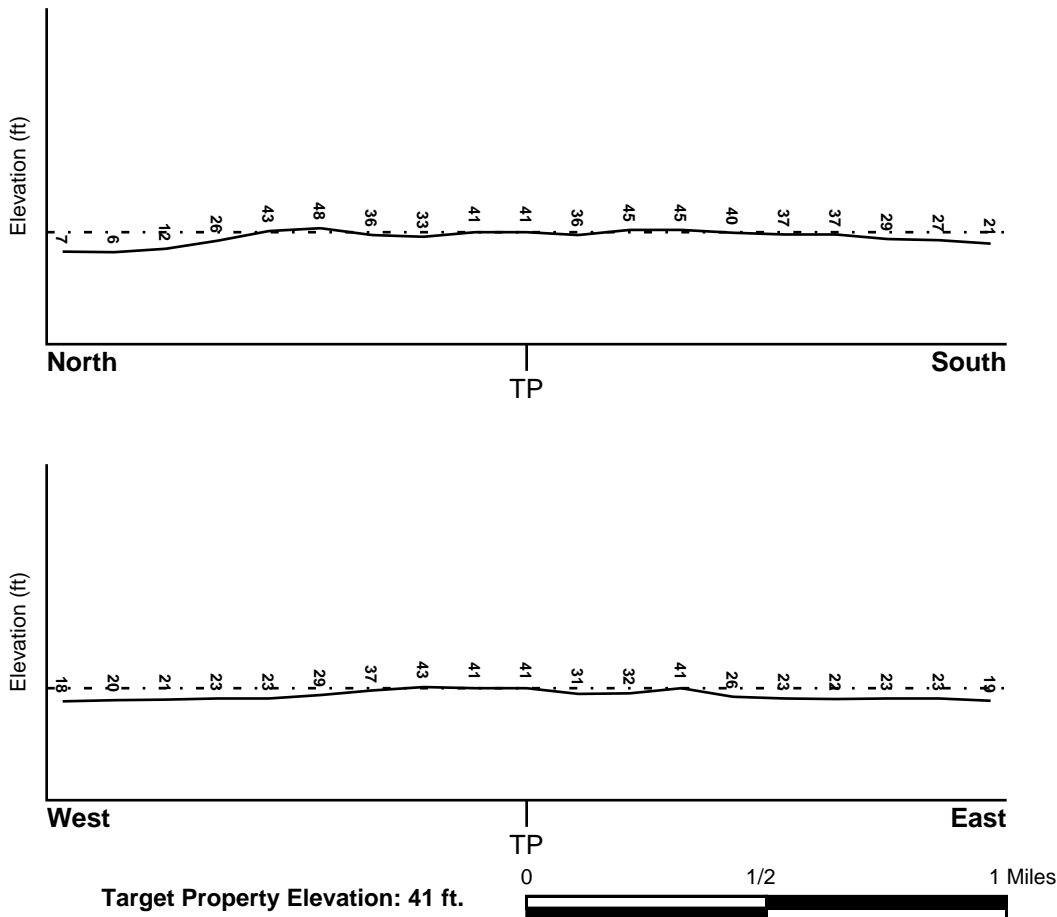
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
13051C0045F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
13051C0040G	FEMA FIRM Flood data
13051C0127G	FEMA FIRM Flood data
13051C0135G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PORT WENTWORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
B5	1/2 - 1 Mile NW	E
B6	1/2 - 1 Mile NW	WNW
B7	1/2 - 1 Mile NW	Not Reported
B8	1/2 - 1 Mile NW	Varies

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Quaternary
Series: Holocene
Code: Qh (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: MANDARIN
Soil Surface Texture: fine sand
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	26 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
2	26 inches	40 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
3	40 inches	73 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 7.30 Min: 3.60
4	73 inches	80 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sand

Surficial Soil Types: sand

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	USGS40000259556	1/2 - 1 Mile South
C9	USGS40000259548	1 - 2 Miles South
E13	USGS40000259536	1 - 2 Miles SSW
F17	USGS40000259566	1 - 2 Miles WSW
E20	USGS40000259535	1 - 2 Miles SSW
D21	USGS40000259654	1 - 2 Miles NNE
G22	USGS40000259637	1 - 2 Miles NE
G26	USGS40000259634	1 - 2 Miles NE
G29	USGS40000259635	1 - 2 Miles NE
H31	USGS40000259658	1 - 2 Miles North
I33	USGS40000259537	1 - 2 Miles SE
H34	USGS40000259661	1 - 2 Miles North
J35	USGS40000259527	1 - 2 Miles SSW
J37	USGS40000259528	1 - 2 Miles SSW
J41	USGS40000259520	1 - 2 Miles SSW
43	USGS40000259664	1 - 2 Miles North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
4	GA0510057	1/2 - 1 Mile ESE
11	GA0510268	1 - 2 Miles ENE
D12	GA0510020	1 - 2 Miles NNE
E15	GA0510102	1 - 2 Miles SSW
D18	GA0510019	1 - 2 Miles NNE
G28	GA0510002	1 - 2 Miles ENE
G30	GA0510002	1 - 2 Miles ENE
H32	GA0510136	1 - 2 Miles North
H38	GA0510137	1 - 2 Miles North
I39	GA0510162	1 - 2 Miles SE
J40	GA0510102	1 - 2 Miles SSW
K45	GA0510102	1 - 2 Miles SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

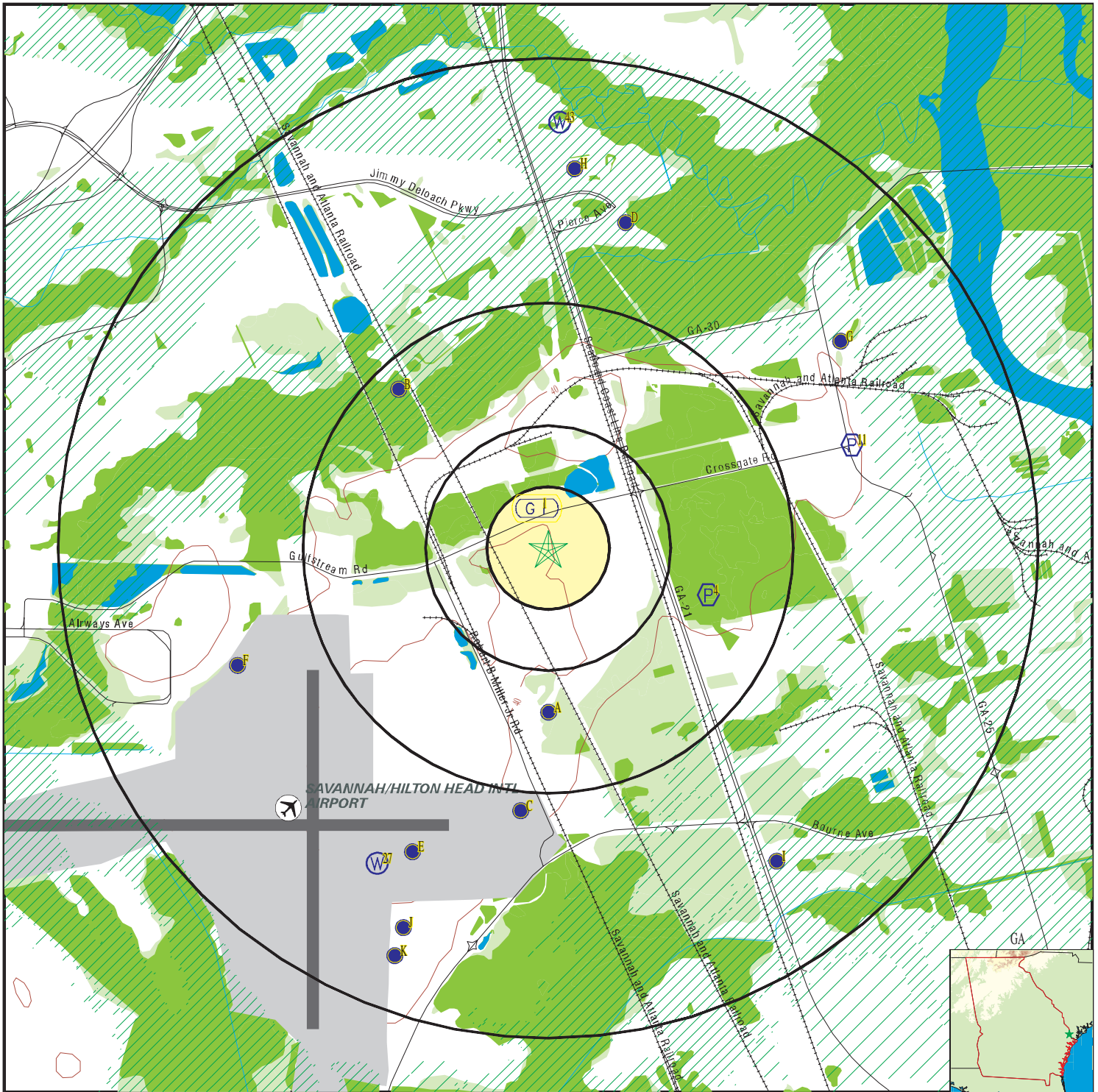
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	0000001906	1/2 - 1 Mile South
C10	0000001904	1 - 2 Miles South
E14	0000001901	1 - 2 Miles SSW
F16	0000001908	1 - 2 Miles WSW
E19	614	1 - 2 Miles SSW
G23	0000001919	1 - 2 Miles NE
G24	612	1 - 2 Miles NE
G25	0000001918	1 - 2 Miles NE
27	615	1 - 2 Miles SSW
J36	0000001899	1 - 2 Miles SSW
J42	0000001897	1 - 2 Miles SSW
K44	617	1 - 2 Miles SSW

PHYSICAL SETTING SOURCE MAP - 7530949.1s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Wildlife Areas
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

SITE NAME: Grumman Road Landfill
 ADDRESS: 135 Gulfstream Road
 Savannah GA 31408
 LAT/LONG: 32.142978 / 81.184041

CLIENT: ANCHOR QEA, LLC
 CONTACT: Kristi Mitchell
 INQUIRY #: 7530949.1s
 DATE: January 03, 2024 2:45 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1 NNW 1/8 - 1/4 Mile Lower	Site ID: 9000518	Groundwater Flow: NOT REPORTED	AQUIFLOW	11620
	Shallow Water Depth: 6	Deep Water Depth: 9		
	Average Water Depth: Not Reported	Date: 10-23-90		

A2 South 1/2 - 1 Mile Lower			GA WELLS	000001906
--	--	--	-----------------	------------------

County code: 051	Well num: 36R006
Remarks: PORT WENTWORTH CORP 1	Lat: 320759
Lon: 0811103	Latlon datum: NAD27
Alt: 40.00	Alt datum: NGVD29
Depth: 1088	Depth to casing: 270.00
Casing dia: 10.00	Casing matl: Not Reported
Depth to top: 271.00	Depth to bot: 1088.00
Opening type: X	Constr date: 195610
Discharge: Not Reported	Prim use: C
Aquifer code: 120FLRD	Edr id: 000001906

A3 South 1/2 - 1 Mile Lower			FED USGS	USGS40000259556
--	--	--	-----------------	------------------------

Organization ID: USGS-GA	Organization Name: USGS Georgia Water Science Center
Monitor Location: 36R006	Type: Well
Description: PORT WENTWORTH CORP 1	HUC: 03060109
Drainage Area: Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported	Contrib Drainage Area Unts: Not Reported
Aquifer: Floridan aquifer system	Formation Type: Floridan Aquifer System
Aquifer Type: Confined multiple aquifer	Construction Date: 19561001
Well Depth: 1088	Well Depth Units: ft
Well Hole Depth: 1089	Well Hole Depth Units: ft

4 ESE 1/2 - 1 Mile Lower			FRDS PWS	GA0510057
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Epa region: 04	State: GA
Pwsid: GA0510057	Pwsname: WOODLAWN TERRACE
Cityserved: Not Reported	Stateserved: GA
Zipsserved: Not Reported	Fipscounty: 13025
Status: Closed	Retpopsrvd: 730
Pwssvconn: 210	Psource longname: Groundwater
Pwstype: CWS	Owner: unknown
Contact: WOODLAWN TERRACE	Contactorgname: Not Reported
Contactphone: 912-964-1711	Contactaddress1: Not Reported
Contactaddress2: 96 MAIN ST.	Contactcity: GARDEN
Contactstate: GA	Contactzip: 31408
Pwsactivitycode: I	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	GA0510057	Facid:	1T
Facname:	06DW00000000000	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	chlorination (frds-1.5)	Factypecode:	TP
Pwsid:	GA0510057	Facid:	2T
Facname:	00DW00000000000	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	chlorination (frds-1.5)	Factypecode:	TP
PWS ID:	GA0510057	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510057
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000730
System name:	WOODLAWN TERRACE	System address:	Not Reported
System address:	96 MAIN ST.	System city:	GARDEN
System state:	GA	System zip:	31408
County FIPS:	025	City served:	SAVANNAH GEORGI
Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	320534	Longitude:	0811023
Latitude:	320824	Longitude:	0811023

B5 NW 1/2 - 1 Mile Lower	Site ID:	9-025076	
	Groundwater Flow:	E	AQUIFLOW 11615
	Shallow Water Depth:	7 FT.	
	Deep Water Depth:	8 FT.	
	Average Water Depth:	Not Reported	
	Date:	FEB. 29, 1996	

B6 NW 1/2 - 1 Mile Lower	Site ID:	9-025152	
	Groundwater Flow:	WNW	AQUIFLOW 11616
	Shallow Water Depth:	2.5 FT	
	Deep Water Depth:	5 FT.	
	Average Water Depth:	Not Reported	
	Date:	AUGUST 29, 1994	

B7 NW 1/2 - 1 Mile Lower	Site ID:	4250162	
	Groundwater Flow:	Not Reported	AQUIFLOW 19243
	Shallow Water Depth:	15	
	Deep Water Depth:	18	
	Average Water Depth:	Not Reported	
	Date:	12	

B8 NW 1/2 - 1 Mile Lower	Site ID:	4250096	
	Groundwater Flow:	Varies	AQUIFLOW 19071
	Shallow Water Depth:	3.5	
	Deep Water Depth:	13.14	
	Average Water Depth:	Not Reported	
	Date:	Not Reported	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C9
South
1 - 2 Miles
Lower

FED USGS USGS40000259548

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R009	Type:	Well
Description:	CHEROKEE OIL TW	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19200101
Well Depth:	2150	Well Depth Units:	ft
Well Hole Depth:	2150	Well Hole Depth Units:	ft

C10
South
1 - 2 Miles
Lower

GA WELLS 000001904

County code:	051	Well num:	36R009
Remarks:	CHEROKEE OIL TW	Lat:	320738
Lon:	0811110	Latlon datum:	NAD27
Alt:	21.50	Alt datum:	NGVD29
Depth:	2150	Depth to casing:	2126.00
Casing dia:	8.00	Casing matl:	Not Reported
Depth to top:	2126	Depth to bot:	2150
Opening type:	X	Constr date:	1920
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000001904

11
ENE
1 - 2 Miles
Lower

FRDS PWS GA0510268

Epa region:	04	State:	GA
Pwsid:	GA0510268	Pwsname:	GA PACIFIC- GA STEAMSHIP CO.
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	70
Pwssvconn:	1	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	GA PACIFIC- GA STEAMSHIP CO.	Contactphone:	Not Reported
Contactorgname:	Not Reported	Contactaddress2:	Not Reported
Contactaddress1:	Not Reported	Contactstate:	Not Reported
Contactcity:	Not Reported	Pwsactivitycode:	I
Contactzip:	Not Reported		
PWS ID:	GA0510268	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510268
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000070
System name:	GA PACIFIC- GA STEAMSHIP CO.		
System address:	GA PACIFIC-GA STEAMSHIP CO.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System address:	4226 CROSSGATE RD	System city:	PORT WENTWORTH
System state:	GA	System zip:	31407
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	320856	Longitude:	0810947
Latitude:	315902	Longitude:	0810657

**D12
NNE
1 - 2 Miles
Lower**

FRDS PWS GA0510020

Epa region:	04	State:	GA
Pwsid:	GA0510020	Pwsname:	COLLUMS TRAILER PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	112
Pwssvconn:	32	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	COLLUM, LOIS	Contactorgname:	Not Reported
Contactphone:	912-964-6163	Contactaddress1:	10 DIXIE STREET
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	I		
PWS ID:	GA0510020	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510020
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000112
System name:	COLLUMS TRAILER PARK	System address:	COLLUMS TRAILER PARK
System address:	10 DIXIE STREET	System city:	PORT WENTWORTH
System state:	GA	System zip:	31407
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	320941	Longitude:	0811042
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	41.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	42.0000		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	090192	Violation end date:	093092
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E13
SSW
1 - 2 Miles
Higher

FED USGS USGS40000259536

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q014	Type:	Well
Description:	SAVANNAH, GA 19	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19450101
Well Depth:	680	Well Depth Units:	ft
Well Hole Depth:	680	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	9	Level reading date:	2000-09-08
Feet below surface:	101.88	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1998-05-25	Feet below surface:	98.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-21	Feet below surface:	125.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-20	Feet below surface:	102.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	105.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-30	Feet below surface:	102.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-04	Feet below surface:	90.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-03	Feet below surface:	96.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	99.62
Feet to sea level:	Not Reported	Note:	Not Reported

E14
SSW
1 - 2 Miles
Higher

GA WELLS 0000001901

County code:	051	Well num:	36Q014
Remarks:	SAVANNAH, GA 19	Lat:	320729
Lon:	0811134	Latlon datum:	NAD27
Alt:	45.06	Alt datum:	NGVD29
Depth:	680	Depth to casing:	250.00
Casing dia:	12.00	Casing matl:	Not Reported
Depth to top:	250.00	Depth to bot:	680.00
Opening type:	X	Constr date:	1945
Discharge:	Not Reported	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	0000001901

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

E15
SSW
1 - 2 Miles
Higher

FRDS PWS GA0510102

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Ziperved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027
Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		
Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	320731	Longitude:	0811140
Latitude:	320705	Longitude:	0811140
Latitude:	320710	Longitude:	0811136
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

**F16
WSW
1 - 2 Miles
Lower**

GA WELLS 000001908

County code:	051	Well num:	36R041
Remarks:	VPI DOE 044 SAV AIRPORT	Lat:	320809
Lon:	0811221	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	1000	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	19800810
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000001908

**F17
WSW
1 - 2 Miles
Lower**

FED USGS USGS40000259566

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R041	Type:	Well
Description:	VPI DOE 044 SAV AIRPORT	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19800810
Well Depth:	1000	Well Depth Units:	ft
Well Hole Depth:	1000	Well Hole Depth Units:	ft

**D18
NNE
1 - 2 Miles
Lower**

FRDS PWS GA0510019

Epa region:	04	State:	GA
Pwsid:	GA0510019	Pwsname:	CHEROKEE MOBILE HOME PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	88
Pwssvconn:	33	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ROYAL, JAMES	Contactorgname:	Not Reported
Contactphone:	912-964-4270	Contactaddress1:	6500 HIGHWAY 21
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	I		
Pwsid:	GA0510019	Facid:	403
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS ID:	GA0510019	PWS name:	CHEROKEE MOBILE HOME PARK
Address:	6500 HIGHWAY 21	Care of:	CHEROKEE MOBILE HOME PARK
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	CHEROKEE MOBILE HOME PARK
Source code:	Ground water	Population:	88
PWS ID:	GA0510019	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	CHATHAM
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	88
PWS ID:	GA0510019	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000088	System name:	CHEROKEE MOBILE HOME PARK
System address:	CHEROKEE MOBILE HOME PARK	System address:	6500 HIGHWAY 21
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		
Population served:	Under 101 Persons	Treatment:	Treated
Latitude:	320944	Longitude:	0811045
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	44.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	45.0000		
Violation id:	200	Orig code:	S
State:	GA	Violation Year:	1999
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/19/1999
Cmp edt:	Not Reported		
Violation id:	30101	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		
Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	10/06/2000
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	10/06/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	30101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	30101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/10/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E19
SSW
1 - 2 Miles
Higher

GA WELLS 614

Id:	614	Water source id:	25M4B19
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1247
Longitude:	81.1942	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	36Q014
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

E20
SSW
1 - 2 Miles
Higher

FED USGS USGS40000259535

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q365	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

D21
NNE
1 - 2 Miles
Lower

FED USGS USGS40000259654

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R022	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

G22
NE
1 - 2 Miles
Lower

FED USGS USGS40000259637

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R008	Type:	Well
Description:	PORT WENTWORTH, GA 2	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19230101

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth:	502	Well Depth Units:	ft	
Well Hole Depth:	502	Well Hole Depth Units:	ft	
Ground water levels,Number of Measurements:		22	Level reading date:	2000-09-14
Feet below surface:	78.70		Feet to sea level:	Not Reported
Note:	Not Reported			
Level reading date:	1998-05-22	Feet below surface:	70.03	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1993-11-10	Feet below surface:	78.87	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1990-05-17	Feet below surface:	80.62	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1988-05-24	Feet below surface:	89.85	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1985-05-20	Feet below surface:	83.10	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1984-11-01	Feet below surface:	84.77	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1984-05-18	Feet below surface:	82.87	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1983-11-08	Feet below surface:	82.90	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1983-06-15	Feet below surface:	79.37	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1982-11-03	Feet below surface:	76.00	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1981-10-27	Feet below surface:	81.90	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1980-05-21	Feet below surface:	74.10	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1979-11-02	Feet below surface:	79.20	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1978-12-04	Feet below surface:	78.35	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1977-11-07	Feet below surface:	79.60	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1976-12-14	Feet below surface:	72.40	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1976-02-20	Feet below surface:	71.80	
Feet to sea level:	Not Reported	Note:	Not Reported	
Level reading date:	1976-01-16	Feet below surface:	70.00	
Feet to sea level:	Not Reported	Note:	Not Reported	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1975-09-22	Feet below surface:	72.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-29	Feet below surface:	76.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-30	Feet below surface:	58.35
Feet to sea level:	Not Reported	Note:	Not Reported

G23
NE
1 - 2 Miles
Lower

GA WELLS 000001919

County code:	051	Well num:	36R008
Remarks:	PORT WENTWORTH, GA 2	Lat:	320920
Lon:	0810952	Latlon datum:	NAD27
Alt:	18	Alt datum:	NGVD29
Depth:	502	Depth to casing:	200.00
Casing dia:	12.00	Casing matl:	Not Reported
Depth to top:	200.00	Depth to bot:	502.00
Opening type:	X	Constr date:	1923
Discharge:	34.72	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	000001919

G24
NE
1 - 2 Miles
Lower

GA WELLS 612

Id:	612	Water source id:	25M0301
Name:	CITY OF PORT WENTWORTH	Latitude:	32.1550
Longitude:	81.1639	Source:	G
Gw mgd:	0.29	Sw mgd:	0.00
Status:	1	Gwsi id:	36K010
Population:	3,947	County:	CHATHAM
County fips:	51	Ggs:	1

G25
NE
1 - 2 Miles
Lower

GA WELLS 000001918

County code:	051	Well num:	36R010
Remarks:	PORT WENTWORTH, GA 1	Lat:	320918
Lon:	0810950	Latlon datum:	NAD27
Alt:	16.00	Alt datum:	NGVD29
Depth:	650	Depth to casing:	254.00
Casing dia:	12.00	Casing matl:	S
Depth to top:	254.00	Depth to bot:	650.00
Opening type:	X	Constr date:	19420930
Discharge:	525.00	Prim use:	P
Aquifer code:	Not Reported	Edr id:	000001918

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

G26
NE
1 - 2 Miles
Lower

FED USGS USGS40000259634

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R010	Type:	Well
Description:	PORT WENTWORTH, GA 1	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19420930
Well Depth:	650	Well Depth Units:	ft
Well Hole Depth:	650	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1973-08-01
Feet below surface:	61.00	Feet to sea level:	Not Reported
Note:	Not Reported		

27
SSW
1 - 2 Miles
Higher

GA WELLS 615

Id:	615	Water source id:	25M4B17
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1241
Longitude:	81.1961	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	Not Reported
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

G28
ENE
1 - 2 Miles
Lower

FRDS PWS GA0510002

Epa region:	04	State:	GA
Pwsid:	GA0510002	Pwsname:	PORT WENTWORTH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Active	Retpopsrvd:	7985
Pwssvconn:	1800	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CLAXTON, PHILLIP	Contactorgname:	CLAXTON, PHILLIP
Contactphone:	912-964-4379	Contactaddress1:	305 SOUTH COASTAL HWY.
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		
Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	17602

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
PWS ID:	GA0510002	PWS name:	PORT WENTWORTH
Address:	305 SOUTH COASTAL HIGHWAY	Care of:	CITY OF PORT WENTWORTH
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	PORT WENTWORTH
Source code:	Ground water	Population:	3349
PWS ID:	GA0510002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PORT WENTWORTH
PWS type code:	C	Retail population served:	7985
Contact:	CLAXTON, PHILLIP	Contact address:	305 SOUTH COASTAL HWY.
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-43
Contact telephone:	Not Reported		
County:	CHATHAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	3349		
PWS ID:	GA0510002	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00002639	System name:	PORT WENTWORTH
System address:	CITY OF PORT WENTWORTH	System address:	305 SOUTH COASTAL HWY.
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		
Population served:	2,501 - 3,300 Persons	Treatment:	Treated
Latitude:	320916	Longitude:	0810948
Latitude:	320916	Longitude:	0810946
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000
Longitude degrees:	81	Longitude minutes:	9

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude seconds: 46.0000

State: GA
 Latitude minutes: 9
 Longitude degrees: 81
 Longitude seconds: 48.0000

Latitude degrees: 32
 Latitude seconds: 16.0000
 Longitude minutes: 9

Violation id: 20205
 State: GA
 Contamination code: 7000
 Violation code: 71
 Rule code: 420
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2004
 Contamination Name: Consumer Confidence Rule
 Violation name: CCR Complete Failure to Report
 Rule name: CCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2004

Violation id: 20410
 State: GA
 Contamination code: 3100
 Violation code: 23
 Rule code: 110
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: 09/30/2009

Orig code: S
 Violation Year: 2009
 Contamination Name: Coliform (TCR)
 Violation name: Monitoring, Routine Major (TCR)
 Rule name: TCR
 Unit of measure: Not Reported
 Cmp bdt: 09/01/2009

Violation id: 20613
 State: GA
 Contamination code: 2950
 Violation code: 02
 Rule code: 210
 Violation measur: 0.118
 State mcl: 0.08
 Cmp edt: 03/31/2013

Orig code: S
 Violation Year: 2013
 Contamination Name: TTHM
 Violation name: MCL, Average
 Rule name: St1 DBP
 Unit of measure: UG/L
 Cmp bdt: 01/01/2013

Violation ID: 20205
 Enforcemnt FY: 2005
 Enforcement Detail: St Intentional no-action

Orig Code: S
 Enforcement Action: 07/01/2005
 Enforcement Category: Resolving

Violation ID: 20205
 Enforcemnt FY: 2005
 Enforcement Detail: St Compliance achieved

Orig Code: S
 Enforcement Action: 07/05/2005
 Enforcement Category: Resolving

Violation ID: 20410
 Enforcemnt FY: 2010
 Enforcement Detail: St Violation/Reminder Notice
 Enforcement Category: Informal

Orig Code: S
 Enforcement Action: 10/22/2009

Violation ID: 20410
 Enforcemnt FY: 2010
 Enforcement Detail: St Public Notif received

Orig Code: S
 Enforcement Action: 11/16/2009
 Enforcement Category: Informal

Violation ID: 20410
 Enforcemnt FY: 2010
 Enforcement Detail: St Public Notif requested

Orig Code: S
 Enforcement Action: 10/22/2009
 Enforcement Category: Informal

Violation ID: 20613
 Enforcemnt FY: 2014
 Enforcement Detail: St Violation/Reminder Notice
 Enforcement Category: Informal

Orig Code: S
 Enforcement Action: 02/25/2014

Violation ID: 20613
 Enforcemnt FY: 2014

Orig Code: S
 Enforcement Action: 02/25/2014

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/5/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

G29
NE
1 - 2 Miles
Lower

FED USGS USGS40000259635

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R013	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

G30
ENE
1 - 2 Miles
Lower

FRDS PWS GA0510002

Epa region:	04	State:	GA
Pwsid:	GA0510002	Pwsname:	PORT WENTWORTH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Active	Retpopsrvd:	7985
Pwssvconn:	1800	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CLAXTON, PHILLIP	Contactorgname:	CLAXTON, PHILLIP
Contactphone:	912-964-4379	Contactaddress1:	305 SOUTH COASTAL HWY.
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		
Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
PWS ID:	GA0510002	PWS name:	PORT WENTWORTH
Address:	305 SOUTH COASTAL HIGHWAY	Care of:	CITY OF PORT WENTWORTH
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	PORT WENTWORTH
Source code:	Ground water	Population:	3349
PWS ID:	GA0510002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PORT WENTWORTH
PWS type code:	C	Retail population served:	7985
Contact:	CLAXTON, PHILLIP	Contact address:	305 SOUTH COASTAL HWY.
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-43
Contact telephone:	Not Reported		
County:	CHATHAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	3349		
PWS ID:	GA0510002	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00002639	System name:	PORT WENTWORTH
System address:	CITY OF PORT WENTWORTH	System address:	305 SOUTH COASTAL HWY.
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		
Population served:	2,501 - 3,300 Persons	Treatment:	Treated
Latitude:	320916	Longitude:	0810948
Latitude:	320916	Longitude:	0810946
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000
Longitude degrees:	81	Longitude minutes:	9
Longitude seconds:	46.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude degrees:	81	Longitude minutes:	9
Longitude seconds:	48.0000		
Violation id:	20205	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	20410	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2009
Cmp edt:	09/30/2009		
Violation id:	20613	Orig code:	S
State:	GA	Violation Year:	2013
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	02	Violation name:	MCL, Average
Rule code:	210	Rule name:	St1 DBP
Violation measur:	0.118	Unit of measure:	UG/L
State mcl:	0.08	Cmp bdt:	01/01/2013
Cmp edt:	03/31/2013		
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/05/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	11/16/2009
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/5/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

**H31
North
1 - 2 Miles
Lower**

FED USGS USGS40000259658

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R021	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**H32
North
1 - 2 Miles
Lower**

FRDS PWS GA0510136

Epa region:	04	State:	GA
Pwsid:	GA0510136	Pwsname:	C & S MOBILE ESTATES
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	80
Pwssvconn:	31	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	RAHN, CHARLES B	Contactorgname:	Not Reported
Contactphone:	912-964-8106	Contactaddress1:	POB 7865
Contactaddress2:	Not Reported	Contactcity:	GARDEN CITY
Contactstate:	GA	Contactzip:	314187865
Pwsactivitycode:	I		

PWS ID:	GA0510136	PWS name:	C & S MOBILE ESTATES
Address:	POB 7865	Care of:	C & S MOBILE ESTATES
City:	GARDEN CITY	State:	GA
Zip:	314187865	Owner:	C & S MOBILE ESTATES
Source code:	Ground water	Population:	80

PWS ID:	GA0510136	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510136
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000080
System name:	C & S MOBILE ESTATES	System address:	C & S MOBILE ESTATES
System address:	POB 7865	System city:	GARDEN CITY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System state:	GA	System zip:	314187865
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	320953	Longitude:	0811056
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	53.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	56.0000		
Violation id:	20101	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	04/01/2001
Cmp edt:	04/30/2001		
Violation id:	20301	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	06/01/2001
Cmp edt:	06/30/2001		
Violation id:	20401	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		
Violation id:	20602	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	07/31/2002		
Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/24/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/24/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/31/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20301	Orig Code:	S

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcemnt FY:	2001	Enforcement Action:	07/31/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/04/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/27/2002
Enforcement Detail:	St Violation/Reminder Notice	Enforcement Category:	
Enforcement Category:	Informal		
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/27/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/11/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

I33
SE
1 - 2 Miles
Lower

FED USGS USGS40000259537

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R019	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

H34
North
1 - 2 Miles
Lower

FED USGS USGS40000259661

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R024	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

J35
SSW
1 - 2 Miles
Lower

FED USGS USGS40000259527

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q293	Type:	Well
Description:	SAVANNAH, GA, 17	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Floridan Aquifer System
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	652	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

J36
SSW
1 - 2 Miles
Lower

GA WELLS 0000001899

County code:	051	Well num:	36Q293
Remarks:	SAVANNAH, GA, 17	Lat:	320716
Lon:	0811137	Latlon datum:	NAD27
Alt:	38.93	Alt datum:	NGVD29
Depth:	652	Depth to casing:	272
Casing dia:	10	Casing matl:	Not Reported
Depth to top:	272	Depth to bot:	652
Opening type:	X	Constr date:	194208
Discharge:	Not Reported	Prim use:	P
Aquifer code:	120FLRD	Edr id:	0000001899

J37
SSW
1 - 2 Miles
Lower

FED USGS USGS40000259528

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q364	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

H38
North
1 - 2 Miles
Lower

FRDS PWS GA0510137

Epa region:	04	State:	GA
Pwsid:	GA0510137	Pwsname:	BARNWELL GARDENS SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipsserved:	Not Reported	Fipscounty:	13051

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Status:	Active	Retpopsrvd:	97
Pwssvconn:	38	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	THOMPSON, VINCE	Contactorgname:	THOMPSON, VINCE
Contactphone:	912-964-4770	Contactaddress1:	8144 OLD HWY. 21
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		
PWS ID:	GA0510137	PWS name:	BARNWELL GARDENS SUBDIVISION
Address:	6594 HIGHWAY 21	Care of:	BARNWELL GARDENS MHP
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	BARNWELL GARDENS SUBDIVISION
Source code:	Ground water	Population:	99
PWS ID:	GA0510137	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	BARNWELL GARDENS SUBDIVISION
PWS type code:	C	Retail population served:	97
Contact:	THOMPSON, VINCE	Contact address:	8144 OLD HWY. 21
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-47
Contact telephone:	Not Reported		
PWS ID:	GA0510137	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	0000071	System name:	BARNWELL GARDENS SUBDIVISION
System address:	BARNWELL GARDENS S/D	System address:	6594 HIGHWAY 21
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	320958	Longitude:	0811058
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	58.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	58.0000		
Violation id:	10102	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	Not Reported		
Violation id:	10303	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2002
Cmp edt:	12/31/2002		
Violation id:	10503	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2003
Cmp edt:	Not Reported		
Violation id:	10604	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	10705	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2005
Cmp edt:	05/31/2005		
Violation id:	10805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		
Violation id:	10906	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2005
Cmp edt:	12/31/2005		
Violation id:	11006	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2006
Cmp edt:	01/31/2006		
Violation id:	11106	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		
Violation id:	11207	Orig code:	S
State:	GA	Violation Year:	2007

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2007
Cmp edt:	Not Reported		
Violation id:	11308	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	03/01/2008
Cmp edt:	03/31/2008		
Violation id:	11408	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		
Violation id:	11508	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2008
Cmp edt:	06/30/2008		
Violation id:	11608	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	07/31/2008		
Violation id:	11709	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2008
Cmp edt:	09/30/2008		
Violation id:	11809	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2008
Cmp edt:	10/31/2008		
Violation id:	11909	Orig code:	S

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State: GA
 Contamination code: 1040
 Violation code: 03
 Rule code: 331
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: 12/31/2008

Violation Year: 2008
 Contamination Name: Nitrate
 Violation name: Monitoring, Regular
 Rule name: Nitrates
 Unit of measure: Not Reported
 Cmp bdt: 01/01/2008

Violation id: 12009
 State: GA
 Contamination code: 7000
 Violation code: 71
 Rule code: 420
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2009
 Contamination Name: Consumer Confidence Rule
 Violation name: CCR Complete Failure to Report
 Rule name: CCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2009

Violation id: 12109
 State: GA
 Contamination code: 3100
 Violation code: 24
 Rule code: 110
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: 07/31/2009

Orig code: S
 Violation Year: 2009
 Contamination Name: Coliform (TCR)
 Violation name: Monitoring, Routine Minor (TCR)
 Rule name: TCR
 Unit of measure: Not Reported
 Cmp bdt: 07/01/2009

Violation id: 12210
 State: GA
 Contamination code: 5000
 Violation code: 52
 Rule code: 350
 Violation measur: Not Reported
 State mcl: Not Reported
 Cmp edt: Not Reported

Orig code: S
 Violation Year: 2009
 Contamination Name: Lead and Copper Rule
 Violation name: Follow-up Or Routine LCR Tap M/R
 Rule name: LCR
 Unit of measure: Not Reported
 Cmp bdt: 10/01/2009

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9200001
 PWS telephone: Not Reported
 Violation type: Max Contaminant Level, Monthly (TCR)
 Violation start date: 040192
 Violation period (months): 001
 Major violator: Not Reported
 Number of required samples: Not Reported
 Analysis method: Not Reported

Violation source ID: Not Reported
 Contaminant: COLIFORM (TCR)
 Violation end date: 043092
 Violation awareness date: Not Reported
 Maximum contaminant level: Not Reported
 Number of samples taken: Not Reported
 Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9200002
 PWS telephone: Not Reported
 Violation type: Monitoring, Repeat Minor (TCR)
 Violation start date: 040192
 Violation period (months): 001
 Major violator: No
 Number of required samples: Not Reported
 Analysis method: Not Reported

Violation source ID: Not Reported
 Contaminant: COLIFORM (TCR)
 Violation end date: 043092
 Violation awareness date: Not Reported
 Maximum contaminant level: Not Reported
 Number of samples taken: Not Reported
 Analysis result: Not Reported

Violation ID: 100
 Enforcemnt FY: 2000
 Enforcement Detail: St Public Notif requested

Orig Code: S
 Enforcement Action: 02/17/2000
 Enforcement Category: Informal

Violation ID: 100

Orig Code: S

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcemnt FY:	2000	Enforcement Action:	02/17/2000
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	100	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	03/27/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/18/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/02/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	01/21/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	01/21/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	09/17/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/11/2003
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	10604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	09/14/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	08/20/2004
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	06/27/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/21/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/30/2006
Enforcement Detail:	St Compliance Meeting conducted		
Enforcement Category:	Informal		
Violation ID:	10705	Orig Code:	S

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Enforcemnt FY:	2006	Enforcement Action:	05/09/2006
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	06/27/2005
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10705	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/29/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	10/03/2005
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	10805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/01/2005
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	01/23/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/21/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	01/23/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/30/2006
Enforcement Detail:	St Compliance Meeting conducted		
Enforcement Category:	Informal		
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/09/2006
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/30/2006
Enforcement Detail:	St Compliance Meeting conducted		
Enforcement Category:	Informal		
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/09/2006
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/22/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/22/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/21/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/20/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/15/2006
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11207	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	09/28/2007
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11207	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	08/31/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

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Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/03/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/23/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/23/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11709	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	10/06/2008

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11709	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	10/06/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11709	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11709	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11809	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11809	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	11/20/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11809	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11809	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	11/20/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11909	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	03/20/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11909	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	04/07/2010
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	11909	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11909	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	03/20/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11909	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	10/12/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	12009	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	10/07/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	12009	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	05/03/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation ID:	12009	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	08/05/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	12009	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St AO (w/penalty) issued		
Enforcement Category:	Formal		
Violation ID:	12109	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Public Notif requested		
Enforcement Category:	Informal		
Violation ID:	12109	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	12109	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	09/03/2009
Enforcement Detail:	St Public Notif received		
Enforcement Category:	Informal		
Violation ID:	12210	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	09/14/2010
Enforcement Detail:	St Compliance achieved		
Enforcement Category:	Resolving		
Violation ID:	12210	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	05/12/2010
Enforcement Detail:	St Public Notif requested		
Enforcement Category:	Informal		
Violation ID:	12210	Orig Code:	S
Enforcement FY:	2010	Enforcement Action:	05/12/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10102	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2002 0:00:00
Compliance end date:	7/18/2002 0:00:00	Enforcement date:	7/18/2002 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10102	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2002 0:00:00
Compliance end date:	7/18/2002 0:00:00	Enforcement date:	7/2/2002 0:00:00
Enforcement action:	State Violation/Reminder Notice		
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10303	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Major (TCR)		
Compliance start date:	12/1/2002 0:00:00	Compliance end date:	12/31/2002 0:00:00
Enforcement date:	1/21/2003 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10303	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Major (TCR)		

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Compliance start date:	12/1/2002 0:00:00	Compliance end date:	12/31/2002 0:00:00
Enforcement date:	1/21/2003 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10503	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2003 0:00:00
Compliance end date:	9/17/2003 0:00:00	Enforcement date:	8/11/2003 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10503	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2003 0:00:00
Compliance end date:	9/17/2003 0:00:00	Enforcement date:	9/17/2003 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10604	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2004 0:00:00
Compliance end date:	9/14/2004 0:00:00	Enforcement date:	8/20/2004 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10604	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2004 0:00:00
Compliance end date:	9/14/2004 0:00:00	Enforcement date:	9/14/2004 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	3/15/2007 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	5/30/2006 0:00:00	Enforcement action:	State Compliance Meeting Conducted
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	5/9/2006 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	6/27/2005 0:00:00	Enforcement action:	State Violation/Reminder Notice

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	6/27/2005 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	7/14/2006 0:00:00	Enforcement action:	State AO (w/penalty) Issued
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	8/21/2006 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10805	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2005 0:00:00
Compliance end date:	8/29/2006 0:00:00	Enforcement date:	10/3/2005 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10805	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2005 0:00:00
Compliance end date:	8/29/2006 0:00:00	Enforcement date:	3/15/2007 0:00:00
Enforcement action:	State Formal NOV Issued	Violation measurement:	Not Reported
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10805	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2005 0:00:00
Compliance end date:	8/29/2006 0:00:00	Enforcement date:	7/14/2006 0:00:00
Enforcement action:	State AO (w/penalty) Issued		
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10805	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2005 0:00:00
Compliance end date:	8/29/2006 0:00:00	Enforcement date:	8/1/2005 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10805	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2005 0:00:00
Compliance end date:	8/29/2006 0:00:00	Enforcement date:	8/29/2006 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

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PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 1/23/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Violation/Reminder Notice

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 1/23/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Public Notif Requested

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 3/15/2007 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Formal NOV Issued

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 5/30/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Compliance Meeting Conducted

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 5/9/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Formal NOV Issued

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 7/14/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State AO (w/penalty) Issued

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 10906
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 12/1/2005 0:00:00
 Enforcement date: 8/21/2006 0:00:00
 Violation measurement: Not Reported
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 12/31/2005 0:00:00
 Enforcement action: State Public Notif Received

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97
 Violation ID: 11006
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 1/1/2006 0:00:00
 Enforcement date: 2/22/2006 0:00:00
 PWS type code: C
 Contaminant: COLIFORM (TCR)
 Compliance end date: 1/31/2006 0:00:00
 Enforcement action: State Violation/Reminder Notice

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	2/22/2006 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	3/15/2007 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	5/30/2006 0:00:00	Enforcement action:	State Compliance Meeting Conducted
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	5/9/2006 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	7/14/2006 0:00:00	Enforcement action:	State AO (w/penalty) Issued
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11006	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	1/1/2006 0:00:00	Compliance end date:	1/31/2006 0:00:00
Enforcement date:	8/21/2006 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11106	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2006 0:00:00
Compliance end date:	8/20/2006 0:00:00	Enforcement date:	3/15/2007 0:00:00
Enforcement action:	State Formal NOV Issued	Violation measurement:	Not Reported
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11106	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2006 0:00:00
Compliance end date:	8/20/2006 0:00:00	Enforcement date:	7/14/2006 0:00:00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement action: State AO (w/penalty) Issued
 Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11106 Contaminant: 7000
 Violation type: 71 Compliance start date: 7/1/2006 0:00:00
 Compliance end date: 8/20/2006 0:00:00 Enforcement date: 8/15/2006 0:00:00
 Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11106 Contaminant: 7000
 Violation type: 71 Compliance start date: 7/1/2006 0:00:00
 Compliance end date: 8/20/2006 0:00:00 Enforcement date: 8/20/2006 0:00:00
 Enforcement action: State Compliance Achieved Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11207 Contaminant: 7000
 Violation type: 71 Compliance start date: 7/1/2007 0:00:00
 Compliance end date: 9/28/2007 0:00:00 Enforcement date: 8/31/2007 0:00:00
 Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11207 Contaminant: 7000
 Violation type: 71 Compliance start date: 7/1/2007 0:00:00
 Compliance end date: 9/28/2007 0:00:00 Enforcement date: 9/28/2007 0:00:00
 Enforcement action: State Compliance Achieved Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11308 Contaminant: COLIFORM (TCR)
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 3/1/2008 0:00:00 Compliance end date: 3/31/2008 0:00:00
 Enforcement date: 4/18/2008 0:00:00 Enforcement action: State Violation/Reminder Notice
 Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11308 Contaminant: COLIFORM (TCR)
 Violation type: Monitoring, Routine Major (TCR)
 Compliance start date: 3/1/2008 0:00:00 Compliance end date: 3/31/2008 0:00:00
 Enforcement date: 4/18/2008 0:00:00 Enforcement action: State Public Notif Requested
 Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11408 Contaminant: 7000
 Violation type: 71 Compliance start date: 7/1/2008 0:00:00
 Compliance end date: 12/31/2025 0:00:00 Enforcement date: 8/12/2008 0:00:00
 Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
 Population served: 97 PWS type code: C
 Violation ID: 11508 Contaminant: COLIFORM (TCR)
 Violation type: Monitoring, Repeat Minor (TCR)
 Compliance start date: 6/1/2008 0:00:00 Compliance end date: 6/30/2008 0:00:00
 Enforcement date: 7/18/2008 0:00:00 Enforcement action: State Violation/Reminder Notice
 Violation measurement: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11508	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Minor (TCR)		
Compliance start date:	6/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11608	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/31/2008 0:00:00
Enforcement date:	8/23/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11608	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/31/2008 0:00:00
Enforcement date:	8/23/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11709	Contaminant:	COLIFORM (TCR)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	9/1/2008 0:00:00	Compliance end date:	9/30/2008 0:00:00
Enforcement date:	10/6/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11709	Contaminant:	COLIFORM (TCR)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	9/1/2008 0:00:00	Compliance end date:	9/30/2008 0:00:00
Enforcement date:	10/6/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11809	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	10/1/2008 0:00:00	Compliance end date:	10/31/2008 0:00:00
Enforcement date:	11/20/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11809	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	10/1/2008 0:00:00	Compliance end date:	10/31/2008 0:00:00
Enforcement date:	11/20/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I39
SE
1 - 2 Miles
Lower

FRDS PWS GA0510162

Epa region:	04	State:	GA
Pwsid:	GA0510162	Pwsname:	BUILDERS TRANSPORT INC.
Cityserved:	Not Reported	Stateserved:	GA
Ziperved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	65
Pwssvconn:	3	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BUILDERS TRANSPORT INC.	Contactorgname:	Not Reported
Contactphone:	912-964-1313	Contactaddress1:	BUILDER'S TRANSPORT INC.
Contactaddress2:	POB 2726	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314982726
Pwsactivitycode:	I		

PWS ID:	GA0510162	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510162
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000050
System name:	BUILDERS TRANSPORT INC.	System address:	BUILDERS TRANSPORT, INC.
System address:	POB 7005	System city:	CAMDEN
System state:	SC	System zip:	290207005

Population served: Under 101 Persons Treatment: Untreated

Latitude: 341447 Longitude: 0803625

Latitude: 320724 Longitude: 0811005

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	070192	Violation end date:	093092
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

J40
SSW
1 - 2 Miles
Lower

FRDS PWS GA0510102

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Ziperved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		
Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	320731	Longitude:	0811140
Latitude:	320705	Longitude:	0811140
Latitude:	320710	Longitude:	0811136
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

J41
SSW
1 - 2 Miles
Lower

FED USGS USGS40000259520

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q013	Type:	Well
Description:	SAVANNAH, GA 18	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19420901
Well Depth:	681	Well Depth Units:	ft
Well Hole Depth:	681	Well Hole Depth Units:	ft

Ground water levels, Number of Measurements:	18	Level reading date:	1998-05-25
Feet below surface:	92.88	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1988-05-25	Feet below surface:	99.41
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-05-21	Feet below surface:	95.52
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-10-31	Feet below surface:	93.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-04-30	Feet below surface:	86.65
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-11-04	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-11-02	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-10-26	Feet below surface:	90.42
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-05-21	Feet below surface:	90.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-05-19	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-10-29	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-12-04	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-11-07	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-12-14	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-01-12	Feet below surface:	76.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-05-02	Feet below surface:	81.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-11-29	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-10-09	Feet below surface:	40.26
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

J42
SSW
1 - 2 Miles
Lower

GA WELLS 000001897

County code:	051	Well num:	36Q013
Remarks:	SAVANNAH, GA 18	Lat:	320710
Lon:	0811143	Latlon datum:	NAD27
Alt:	34.27	Alt datum:	NGVD29
Depth:	681	Depth to casing:	269.00
Casing dia:	10.00	Casing matl:	Not Reported
Depth to top:	269.00	Depth to bot:	681.00
Opening type:	X	Constr date:	194209
Discharge:	825.00	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	000001897

43
North
1 - 2 Miles
Lower

FED USGS USGS40000259664

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R025	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

K44
SSW
1 - 2 Miles
Lower

GA WELLS 617

Id:	617	Water source id:	25M4B18
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1192
Longitude:	81.1953	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	36Q013
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

K45
SSW
1 - 2 Miles
Lower

FRDS PWS GA0510102

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Zipsserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027
Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		
Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	320731	Longitude:	0811140
Latitude:	320705	Longitude:	0811140
Latitude:	320710	Longitude:	0811136
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CHATHAM County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CHATHAM COUNTY, GA

Number of sites tested: 21

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.881 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations

Georgia Department of Public Health

Telephone: (404) 657-2700

A listing of Private Water Well locations

Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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