

Georgia Power Company
Grumman Road Private Industrial Landfill
Port Wentworth, Georgia
PERMIT #: 025-061D(LI)
Chatham County

**2020 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**



ACC

ATLANTIC COAST
CONSULTING, INC.

PROFESSIONAL CERTIFICATION

This 2020 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - 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 (ACC).

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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 *2020 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted during the second half of 2019 and first half of 2020 at Georgia Power Company's (Georgia Power) 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 (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D.

To comply with GA EPD's 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 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. The facility is continuing an Assessment of Corrective Measures (ACM) established under the existing EPD Permit No. 025-061D(LI). Semiannual reporting is completed pursuant to 391-3-4-.10(6)(c). This report documents monitoring events conducted during the second half of 2019 and first half of 2020. Monitoring results from the second half of 2019 were previously reported in the 2019 semi-annual groundwater monitoring report (ACC, 2020).

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 36 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 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 recently been completed and was documented to EPD in a submittal dated November 27, 2019.

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 the fine silty sands and clay partings are found generally 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

A subsurface characterization study at GRL identified two distinct units in the shallow subsurface (SCS, 1998). Unit 1 comprises the uppermost aquifer and has a thickness ranging from approximately 22 to 28 feet across GRL. Hydraulic conductivity is defined as the rate at which water can move through a permeable medium. In situ rising head and falling slug tests were performed at multiple locations on the Site. There is a limited range in hydraulic conductivity at these locations, indicating a fairly uniform medium across the upper aquifer or Unit 1 (typically range from 10^{-3} to 10^{-4} centimeters per second [cm/sec]). The average hydraulic conductivity is estimated at 2.7×10^{-3} cm/sec (7.6 feet per day). The values from the field test fall within the standard range of hydraulic conductivity values associated with a silty sand.

Unit 2 directly underlies Unit 1 and is comprised of fine grain sandy silt and clayey sands. Typically, Unit 2 has a lower permeability on the order of 10 times less (10^{-4} to 10^{-5} cm/sec) than that of Unit 1 and is considered an aquitard. The thickness of Unit 2 in the Site area ranges from 5 feet to over 40 feet.

1.4 Groundwater Monitoring System and CCR Units

A groundwater monitoring plan was submitted and approved January 13, 2000. The initial approved detection groundwater monitoring network included 17 monitoring wells: upgradient wells GWA-7 and GWA-8 and downgradient wells GWC-1 through GWC-6 and GWC-9 through GWC-17. As previously documented to EPD, in late 2018, three monitoring wells (GWC-4, GWC-5, and GWC-6) were replaced by new monitoring wells (GWB-4R, GWB-5R, and GWB-6R) and were also re-designated as side-gradient (i.e. "GWB" prefixes) locations. One well (GWC-3) was not replaced due to redundancy with GWC-20. These changes are detailed in the November 2018 permit application. Well installations have either been previously approved or pending permit application. Pursuant to § 257.91, the monitoring system is designed to monitor groundwater passing the waste boundary of GRL within the uppermost aquifer. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1A, Monitoring Network Well Summary). Existing locations not included in the monitoring network are presented in Table 1B, Non-Network Well Summary.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed at the Site during the reporting period. Samples were collected from each well in the monitoring system shown on Figure 2.

A notification for the implementation of assessment monitoring under 391-3-4-.10(6) was completed on November 13, 2019. Table 2, Groundwater Sampling Event Summary, presents a summary of groundwater sampling events completed at the Site during the reporting period. Groundwater events were conducted at the Site in August 2019, October 2019, and April 2020. An initial assessment monitoring event for Appendix IV constituents was completed in August 2019. This was followed by semi-annual monitoring events in October 2019 and April 2020. Groundwater samples were collected for the state-specific list of Appendix I and II metals specified in the permit, all Appendix III constituents, and the Appendix IV constituents detected

during the August 2019 monitoring event. Results of sampling activities conducted during the past year are presented in Appendix A, Laboratory Analytical and Field Sampling Reports.

2.1 Monitoring Well Installation/Maintenance

Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance to provide safe access for sampling. All site monitoring wells were resurveyed initially in 2017 and replacement wells (GWB-4R, GWB-5R, and GWB-6R) were surveyed in 2019. A resurvey of the tops of casings for monitoring wells GWB-4R and GWC-2 was completed in May 2020. A drawing and data sheets surveyed by Georgia Registered Land Surveyors are provided in Appendix B, Monitoring Well Survey Data.

2.2 Assessment Monitoring Program

Georgia Power has initiated an assessment monitoring program for CCR Appendix IV constituents. The facility had previously implemented an assessment monitoring program for Appendix II metals included in its state permit. 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.

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 well network and piezometers at GRL. Groundwater elevations recorded during the monitoring events are summarized in Tables 4A, 4B, and 4C, Summary of Groundwater Elevations – August 2019, October 2019, and April 2020, respectively. Groundwater elevation data was used to develop Figure 3, August 2019 Potentiometric Surface Map, Figure 4, October 2019 Potentiometric Surface Map, and Figure 5, April 2020 Potentiometric Surface Map. A potentiometric high exists near wells 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 patterns observed during the August 2019, October 2019, and April 2020 monitoring events are consistent with historical patterns.

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

Specifically:

Equation

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

Groundwater flow velocities were 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; US EPA, 1989; Freeze and

Cherry, 1979). Groundwater flow velocities have been calculated and are tabulated on Tables 5A, 5B, and 5C, Groundwater Flow Velocity Calculations – August 2019, October 2019, and April 2020, respectively. The calculated maximum flow velocities are 0.29 feet per day for August 2019, 0.29 feet per day for October 2019, and 0.30 feet per day for April 2020.

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 primarily performed using peristaltic pumps. 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 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, oxidation-reduction potential, 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 where DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 nephelometric turbidity units (NTU)

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 Pace Analytical Services, LLC (Pace) of Peachtree Corners, Georgia and Greensburg, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Mercury was not detected in the initial Appendix IV assessment monitoring event completed in August 2019 and therefore not included in the semiannual assessment monitoring events completed in October 2019 and April 2020. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Analytical data collected in monitoring events during the reporting period are summarized in Tables 6A, 6B, and 6C, Summary of Groundwater Analytical Data – August 2019, October 2019, and April 2020, respectively.

Laboratory analyses were performed by Pace. Pace is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Pace is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events 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 assessment 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 was validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestions spikes, laboratory and field duplicate relative percent differences (RPDs), field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using US EPA procedures as guidance (US EPA, 2017).

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (PQL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. "J" flagged data are used to establish background statistical limits but are not used when performing statistical analyses.

4.0 STATISTICAL ANALYSIS

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

Statistical analysis of April 2020 groundwater monitoring data was performed by Groundwater Stats Consulting, LLC following the appropriate certified statistical methodology for GRL. The September 2019 statistical analysis of Appendix IV data was completed by ACC in April 2020. Statistical analysis of the September 2019 Appendix III data was previously submitted in the 2019 Semiannual Groundwater Monitoring Report.

Appendix I and III data are statistically evaluated for detection monitoring, and Appendix II and IV results are statistically evaluated for assessment monitoring. A summary of the statistical methodology used at GRL for routine groundwater monitoring is provided in Table 7, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix C, Statistical Analysis Reports and summarized in the following sections.

4.1 Appendix I and III Detection Monitoring Statistical Methods

Analytical data collected during the background period were evaluated and used to develop interwell or intrawell statistical limits for each Appendix I and III parameter. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. 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 US EPA regulations.

If an Appendix I or III analyte exceeds its relevant background statistical limit, an initial statistically significant increase (SSI) is identified. An independent resample in the case of a 1-of-2 verification plan or two resamples for a 1-of-3 verification plan may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If resample

results exceed the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

A permit minor modification was submitted to EPD following the *2019 First Supplemental Semiannual Groundwater Monitoring Report* to allow for intrawell methods to be used for evaluation of Appendix I metals. The statistical methodology was revised to an intrawell method following the June 2019 monitoring event. Statistical tests used to evaluate the groundwater monitoring data consist of intrawell prediction limits combined with a 1-of-2 verification resample plan for Appendix I metals. Intrawell prediction limits are constructed from historical data within a given well through July 2018, and the most recent sample is compared to background. Appendix I metals that are identified as SSIs are also evaluated by trend tests.

Statistical tests used to evaluate the Appendix III groundwater monitoring data consist of interwell prediction limits for calcium, chloride, fluoride, pH and sulfate (combined with a 1-of-2 verification resample plan). Monitoring results for boron and TDS are evaluated using intrawell prediction limits combined with a 1-of-3 verification resample plan.

4.2 Appendix II and IV Assessment Monitoring Statistical Methods

Appendix II constituents and Appendix IV constituent detected in the initial annual assessment sampling event (August 2019) were sampled during the October 2019 and April 2020 semiannual sampling events. 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 both the state and federal 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, a statistically significant level (SSL) exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under 40 CFR § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i). Cobalt 0.006 mg/L;
 - (ii). Lead 0.015 mg/L;
 - (iii). Lithium 0.040 mg/L; and
 - (iv). Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

USEPA's updated GWPS have not yet been incorporated under Georgia EPD's CCR Rule. The Georgia EPD CCR Rule GWPS is:

- (1) The federally established MCL.
- (2) Where an MCL has not been established, the background concentration.
- (3) Background levels for constituents where the background level is higher than the MCL.

4.3 Statistical Analyses Results

Analytical data from the semiannual assessment monitoring events were analyzed in accordance with the Statistical Analysis Plan. Appendix I parameters are compared to intrawell prediction limits to determine if current concentrations constitute statistically significant increases above background (SSIs). Appendix III statistical analysis is performed to determine if constituents have

returned to background levels. Appendix II and Appendix IV assessment monitoring parameters were evaluated to determine if concentrations are statistically significant levels (SSLs) above a GWPS. The statistical analysis and comparison to prediction limits are included as Appendix C, Statistical Analyses.

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

4.3.1 October 2019 Appendix I and III Detection Monitoring Parameters

Statistical analysis of Appendix I data identified SSLs for four groundwater monitoring parameters. The SSLs include:

- Arsenic: GWC-15, GWC-16, GWC-20
- Barium: GWC-16
- Selenium: GWC-15
- Zinc: GWC-13

Appendix III SSLs include:

- Boron: GWC-6R, GWC-16
- Calcium: GWC-4R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21
- Chloride: GWC-17
- pH: GWC-15, GWC-20
- Sulfate: GWC-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17
- TDS: GWC-5R, GWC-6R, GWC-16

The Appendix I and III SSLs were evaluated using the Sen's Slope/Mann-Kendall trend test. The only significant increasing trends identified were for arsenic (GWC-15 and GWC-20), boron (GWC-16), calcium (GWC-1 and GWC-16), and TDS (GWC-5R and GWC-16). Significant decreasing trends were identified for arsenic (GWC-16), calcium (GWC-12), and sulfate (GWC-12). No other Appendix I or III SSLs exhibited significant trends.

4.3.2 October 2019 Appendix II and IV Assessment Monitoring Parameters

Statistical analysis of Appendix II and IV data identified constituents (arsenic and molybdenum) to be at SSLs above the established GWPS for six groundwater monitoring wells. The SSLs include:

- Arsenic: GWC-15, GWC-16, and GWC-20 (SSLs of the state and federal derived GWPS)
- Molybdenum: GWC-4R, GWC-1, GWC-15, GWC-16, GWC-20, and GWC-21 (SSLs of the state derived GWPS, but not the federal GWPS)

4.3.3 April 2020 Appendix I and III Detection Monitoring Parameters

Statistical analysis of Appendix I data identified SSLs for two groundwater monitoring parameters. The SSLs include:

- Arsenic: GWC-1, GWC-15, GWC-16, GWC-20
- Barium: GWC-14, GWC-16, and GWC-20

Appendix III SSLs include:

- Boron: GWC-6R, GWC-11, GWC-16

- Calcium: GWB-4R, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-22
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12, GWC-20
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-22
- TDS: GWB-6R, GWC-11, GWC-16

The Appendix I and III SSIs were evaluated using the Sen's Slope/Mann-Kendall trend test. The only significant increasing trends identified were for arsenic (GWC-15 and GWC-20), barium (GWC-20), boron (GWC-16), calcium (GWC-11 and GWC-16), pH (GWC-15), and TDS (GWC-16). Significant decreasing trends were identified for arsenic (GWC-1), barium (GWC-14), calcium (GWC-12), and sulfate (GWC-12). No other Appendix I or III SSIs exhibited significant trends.

4.3.4 April 2020 Appendix II and IV Assessment Monitoring Parameters

The same Appendix II and Appendix IV SSLs were identified for the monitoring network as during the October 2019 semiannual assessment monitoring event with the exception that molybdenum is an SSL for GWC-16 compared to both federal and state GWPS.

- Arsenic: GWC-15, GWC-16, and GWC-20 (SSLs of the state and federal derived GWPS)
- Molybdenum: GWB-4R, GWC-1, GWC-15, GWC-16, GWC-20, and GWC-21 (All SSLs of the state derived GWPS, but not the federal GWPS, except for GWC-16)

Consistent with prior monitoring events, the concentrations of arsenic in GWC-15, GWC-16, and GWC-20 statistically exceed the maximum contaminant level (MCL). Arsenic in wells GWC-15, GWC-16, and GWC-20 will continue to be addressed by the ongoing ACM. As documented in a notification dated July 9, 2020 an ACM has also been initiated for arsenic and molybdenum, per 40 CFR §257.96.

5.0 MONITORING PROGRAM STATUS

In accordance with GA EPD rule 391-3-4-.10(6)(a) and 40 CFR §257.94(e), the assessment monitoring program previously established under state permit requirements has been expanded to include Appendix IV constituents. An ongoing ACM to address arsenic concentrations in three wells was established under the state solid waste permit. The previously identified arsenic concentrations and recent SSLs of molybdenum are currently being addressed by an ACM.

6.0 CONCLUSIONS AND FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data identified SSIs of Appendix I and Appendix III groundwater monitoring constituents. Georgia Power has initiated assessment monitoring pursuant to § 257.95. During the first semiannual period of 2020, Georgia Power established groundwater protection standards for Appendix IV constituents and completed statistical analysis of the assessment monitoring results according to the regulations. An ongoing ACM for arsenic was established under EPD Rule 391-3-4-.14 and will continue contemporaneously with implementation of the State CCR Rule. An additional Appendix IV constituent, molybdenum was identified as an SSL and will be addressed by the ACM along with arsenic under the State CCR Rule.

The next semiannual monitoring event is tentatively planned for late September 2020.

7.0 REFERENCES

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TABLES

Table 1A
Monitoring Network Well Summary

Well ID	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft NAVD)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (ft NAVD)	Hydraulic Location
GWA-7	07/29/1998	21.2	26.08	16.2	31.08	Upgradient
GWA-8	07/29/1998	20.8	26.91	15.8	31.91	Upgradient
GWB-4R	10/09/2018	23.3	22.43	14.0	32.43	Sidegradient
GWB-5R	10/09/2018	26.5	21.31	14.0	31.31	Sidegradient
GWB-6R	10/09/2018	22.7	24.71	10.0	34.71	Sidegradient
GWC-1	03/10/1997	28.2	22.46	23.2	27.46	Downgradient
GWC-2	03/11/1997	33.8	*	28.8	*	Downgradient
GWC-9	07/24/1998	27.4	19.78	22.4	24.78	Downgradient
GWC-11	07/23/1998	22.6	26.78	17.6	31.78	Downgradient
GWC-12	07/22/1998	26.7	20.74	21.7	25.74	Downgradient
GWC-13	07/22/1998	23.8	23.98	18.8	28.98	Downgradient
GWC-14	07/22/1998	27.0	23.67	22.0	28.67	Downgradient
GWC-15	07/22/1998	26.8	21.28	21.8	26.28	Downgradient
GWC-16	07/21/1998	28.2	19.58	23.2	24.58	Downgradient
GWC-17	1998	23.2	20.94	18.2	25.94	Downgradient
GWC-20	2010	25.0	24.31	20.0	29.31	Downgradient
GWC-21	2010	23.8	23.29	18.8	28.29	Downgradient
GWC-22	2010	18.9	27.79	13.9	32.79	Downgradient

Notes:

1. ft NAVD indicates feet relative to North American Vertical Datum of 1988.
2. ft BTOC indicates feet below top of casing.
3. * - Resurvey Pending.

Table 1B
Non-Network Well Summary

Well ID	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft NAVD)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (ft NAVD)	Purpose
GWC-3	07/21/1998	22.9	26.87	17.9	31.87	Piezometer
GWC-4	07/20/1998	26.4	22.64	21.4	27.64	Piezometer
GWC-5	07/20/1998	26.7	21.81	21.7	26.81	Piezometer
GWC-6	07/28/1998	22.7	25.58	17.7	30.58	Piezometer
GWC-10	07/24/1998	20.6	26.79	15.6	31.79	Piezometer

Notes:

1. ft NAVD indicates feet relative to North American Vertical Datum of 1988.
2. ft BTOC indicates feet below top of casing.

Table 2
Groundwater Sampling Event Summary

Well	Hydraulic Location	Aug. 26-28, 2019	Oct. 7-9, 2019	Apr. 6-8, 2020
Purpose of Sampling Event		Initial App. IV Assessment	Second 2019 Assessment	First 2020 Assessment
GWA-7	Upgradient	X	X	X
GWA-8	Upgradient	X	X	X
GWB-4R	Sidegradient	X	X	X
GWB-5R	Sidegradient	X	X	X
GWB-6R	Sidegradient	X	X	X
GWC-1	Downgradient	X	X	X
GWC-2	Downgradient	X	X	X
GWC-9	Downgradient	X	X	X
GWC-11	Downgradient	X	X	X
GWC-12	Downgradient	X	X	X
GWC-13	Downgradient	X	X	X
GWC-14	Downgradient	X	X	X
GWC-15	Downgradient	X	X	X
GWC-16	Downgradient	X	X	X
GWC-17	Downgradient	X	X	X
GWC-20	Downgradient	X	X	X
GWC-21	Downgradient	X	X	X
GWC-22	Downgradient	X	X	X

Notes:

1. X indicates sample was collected.
2. Initial Assessment Event included all Appendix IV analytes.
3. Second 2019 and First 2020 Assessment Events included Appendix III and Detected Appendix IV analytes.

Table 3
Summary of Groundwater Monitoring Parameters

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

Table 4A
Summary of Groundwater Elevations
August 2019

Well ID	TOC Elevation (SD)	Depth to Water (ft BTOC)	Groundwater Elevation (SD)
GWA-7	47.10	7.01	40.09
GWA-8	46.84	9.03	37.81
GWB-4R	45.86*	11.54	34.32
GWB-5R	47.82	10.58	37.24
GWB-6R	47.40	8.46	38.94
GWC-1	50.30	19.31	30.99
GWC-2	NA*	19.53	NA*
GWC-9	47.11	10.11	37.00
GWC-11	49.38	13.83	35.55
GWC-12	47.48	13.79	33.69
GWC-13	47.82	14.34	33.48
GWC-14	50.67	19.65	31.02
GWC-15	48.12	19.31	28.81
GWC-16	47.79	20.70	27.09
GWC-17	44.09	6.52	37.57
GWC-20	50.03	21.06	28.97
GWC-21	47.94	20.55	27.39
GWC-22	46.72	9.49	37.23

Notes:

1. ft BTOC indicates feet below top of casing.
2. SD indicates feet relative to Site Datum.
3. * - New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD; GWC-2 is 51.84 SD.
4. NA indicates not available.

Table 4B
Summary of Groundwater Elevations
October 2019

Well ID	TOC Elevation (SD)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-7	47.10	7.37	39.73
GWA-8	46.84	8.81	38.03
GWB-4R	45.86*	11.85	34.01
GWB-5R	47.82	10.88	36.94
GWB-6R	47.40	8.50	38.90
GWC-1	50.30	19.55	30.75
GWC-2	NA*	19.94	NA*
GWC-9	47.11	10.33	36.78
GWC-11	49.38	14.15	35.23
GWC-12	47.48	13.60	33.88
GWC-13	47.82	14.76	33.06
GWC-14	50.67	19.92	30.75
GWC-15	48.12	19.54	28.58
GWC-16	47.79	20.92	26.87
GWC-17	44.09	7.35	36.74
GWC-20	50.03	21.39	28.64
GWC-21	47.94	20.85	27.09
GWC-22	46.72	9.64	37.08

Notes:

1. ft BTOC indicates feet below top of casing.
2. SD indicates feet relative to Site Datum.
3. * - New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD; GWC-2 is 51.84 SD.
4. NA indicates not available.

Table 4C
Summary of Groundwater Elevations
April 2020

Well ID	TOC Elevation (SD)	Depth to Water (ft BTOC)	Groundwater Elevation (SD)
GWA-7	47.10	5.99	41.11
GWA-8	46.84	7.38	39.46
GWB-4R	45.86	10.83	35.03
GWB-5R	47.82	8.66	39.16
GWB-6R	47.40	7.12	40.28
GWC-1	50.30	18.34	31.96
GWC-2	NA*	17.44	NA*
GWC-9	47.11	7.66	39.45
GWC-11	49.38	10.71	38.67
GWC-12	47.48	10.70	36.78
GWC-13	47.82	12.06	35.76
GWC-14	50.67	17.97	32.70
GWC-15	48.12	18.45	29.67
GWC-16	47.79	19.97	27.82
GWC-17	44.09	6.81	37.28
GWC-20	50.03	20.55	29.48
GWC-21	47.94	19.86	28.08
GWC-22	46.72	7.12	39.60

Notes:

1. SD indicates feet relative to Site Datum.
2. ft BTOC indicates feet below top of casing.
3. * - New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD; GWC-2 is 51.84 SD
4. NA indicates not available.

Table 5A
Groundwater Flow Velocity Calculations
August 2019

Equation

$$v = \frac{K (i)}{P_e} \quad \text{where: } v = \text{ground water velocity}$$

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.
i ₁ =	11.85/1576 ft/ft = 0.008	hydraulic gradient from GWB-6R to GWC-16
i ₂ =	2.52/737 ft/ft = 0.003	hydraulic gradient from GWA-7 to GWC-17
P _e =	0.20	See note 2.

$$v_{\max} = \frac{(7.60)(0.008)}{0.20} \quad v_{\max} = 0.29 \text{ ft/day}$$

$$v_{\min} = \frac{(7.60)(0.003)}{0.20} \quad v_{\min} = 0.13 \text{ ft/day}$$

Notes

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

Table 5B
Groundwater Flow Velocity Calculations
October 2019

Equation

$$v = \frac{K (i)}{P_e} \quad \text{where: } v = \text{ground water velocity}$$

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.
i ₁ =	12.03/1576 ft/ft = 0.008	hydraulic gradient from GWB-6R to GWC-16
i ₂ =	2.99/737 ft/ft = 0.004	hydraulic gradient from GWA-7 to GWC-17
P _e =	0.20	See note 2.

$$v_{\max} = \frac{(7.60)(0.008)}{0.20} \quad v_{\max} = 0.29 \text{ ft/day}$$

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

Notes

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

Table 5C
Groundwater Flow Velocity Calculations
April 2020

Equation

$$v = \frac{K (i)}{P_e} \quad \text{where: } v = \text{ground water velocity}$$

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.
i ₁ =	12.46/1576 ft/ft = 0.008	hydraulic gradient from GWB-6R to GWC-16
i ₂ =	3.83/737 ft/ft = 0.005	hydraulic gradient from GWA-7 to GWC-17
P _e =	0.20	See note 2.

$$v_{\max} = \frac{(7.60)(0.008)}{0.20} \quad v_{\max} = 0.30 \text{ ft/day}$$

$$v_{\min} = \frac{(7.60)(0.005)}{0.20} \quad v_{\min} = 0.20 \text{ ft/day}$$

Notes

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

Table 6A
Grumman Road Landfill
Summary of Groundwater Analytical Data - August 2019

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		8/26/2019	8/26/2019	8/27/2019	8/28/2019	8/27/2019	8/27/2019	8/27/2019	8/28/2019
Appendix IV	Antimony	ND	ND	ND	ND (0.00054 J)	ND	ND	ND	ND
	Arsenic	ND (0.0041 J)	ND	ND (0.0023 J)	ND (0.0023 J)	ND (0.0035 J)	ND (0.0022 J)	ND	ND
	Barium	0.11	0.065	0.076	0.10	0.013	0.054	0.053	0.17
	Beryllium	ND	ND (0.00021 J)	ND	ND (0.000076 J)	ND	ND	ND	ND (0.00022 J)
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND (0.024 J)	ND (0.0010 J)	ND (0.0027 J)	ND (0.0071 J)	ND (0.0097 J)	ND (0.0062 J)	ND	ND (0.00089 J)
	Cobalt	ND (0.0037 J)	ND (0.00042 J)	ND (0.0011 J)	ND (0.0024 J)	ND (0.00038 J)	ND	ND	ND (0.00099 J)
	Fluoride	ND	0.13	ND (0.031 J)	ND (0.097 J)	ND (0.13 J)	ND	ND	ND (0.088 J)
	Lead	ND (0.013 J)	ND	ND (0.0010 J)	ND (0.0011 J)	ND (0.0011 J)	ND	ND	ND (0.000061 J)
	Lithium	ND	ND (0.0012 J)	0.013	ND	ND	ND	ND	ND (0.0018 J)
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	ND	ND	0.10	ND (0.0012 J)	ND (0.0026 J)	0.060	ND	ND
	Radium	6.03	3.03	2.97	3.74	4.63	2.41	0.787 U	1.91
	Selenium	ND	ND	ND	ND (0.0033 J)	ND (0.0033 J)	ND (0.0016 J)	ND	ND
Thallium	ND	ND	ND	ND (0.000057 J)	ND	ND	ND	ND	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
4. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix IV = parameters evaluated during Assessment Monitoring.

Table 6A
Grumman Road Landfill
Summary of Groundwater Analytical Data - August 2019

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/27/2019	8/28/2019	8/28/2019	8/28/2019
Appendix IV	Antimony	ND (0.00033 J)	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND (0.0017 J)	0.17	0.091	ND (0.0011 J)	0.43
	Barium	0.12	0.017	0.024	0.067	0.049	0.090	0.026	0.078
	Beryllium	ND	ND (0.00047 J)	ND	ND	ND	ND (0.000080 J)	ND (0.0017 J)	ND
	Cadmium	ND (0.00044 J)	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND (0.00092 J)	ND (0.00085 J)	ND	ND (0.0010 J)	ND (0.0016 J)	ND (0.0011 J)	ND (0.0013 J)	ND (0.00089 J)
	Cobalt	ND	ND (0.00090 J)	ND	ND	ND	ND	ND (0.0023 J)	ND
	Fluoride	ND	0.30	ND	ND	ND	ND	0.61	ND
	Lead	ND (0.00021 J)	ND	ND (0.00010 J)	ND (0.00051 J)	ND (0.00033 J)	ND (0.00010 J)	ND	ND (0.000065 J)
	Lithium	ND	ND (0.00094 J)	ND	ND	ND	ND	ND (0.0041 J)	ND
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	ND	ND	ND	0.028	0.095	0.22	ND (0.0040 J)	0.11
	Radium	5.09	2.09	1.27	1.32	1.75	2.04	2.01	1.13 U
	Selenium	ND	ND	ND	ND (0.0035 J)	ND (0.0092 J)	ND (0.0040 J)	ND	ND (0.0014 J)
Thallium	ND	ND (0.00011 J)	ND	ND	ND	ND	ND (0.000066 J)	ND	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
4. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix IV = parameters evaluated during Assessment Monitoring.

Table 6A
Grumman Road Landfill
Summary of Groundwater Analytical Data - August 2019

Substance	Well ID		
	GWC-21	GWC-22	
	8/28/2019	8/27/2019	
Appendix IV	Antimony	ND	ND (0.00045 J)
	Arsenic	ND (0.0020 J)	ND (0.00044 J)
	Barium	0.063	0.097
	Beryllium	ND	ND (0.000090 J)
	Cadmium	ND	ND
	Chromium	ND (0.00087 J)	ND (0.00057 J)
	Cobalt	ND	ND (0.00077 J)
	Fluoride	ND	0.10
	Lead	ND (0.00018 J)	ND (0.0030 J)
	Lithium	ND	ND
	Mercury	ND	ND
	Molybdenum	0.070	ND
	Radium	1.40 U	7.04
	Selenium	0.019	ND
Thallium	ND	ND (0.000086 J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
4. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
5. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. Appendix IV = parameters evaluated during Assessment Monitoring.

Table 6B
Grumman Road Landfill
Summary of Groundwater Analytical Data - October 2019

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		10/8/2019	10/7/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019
APPENDIX III	Boron	6.4	0.12	5.7	6.8	6.3	0.93	ND (0.024 J)	ND (0.019 J)
	Calcium	3.5	31.6	46.7	17.7	10.1	51.2	0.18	6.0
	Chloride	125	18.0	32.1	239	49.7	7.2	7.0	19.0
	Fluoride	ND	ND	ND	ND	ND	ND	ND	ND (0.068 J)
	pH	5.74	4.24	5.79	6.11	5.66	5.82	4.79	4.49
	Sulfate	32.8	156	38.5	90.8	255	76.3	10.1	41.1
	TDS	1840	275	502	2010	903	338	46.0	128
APPENDIX IV	Antimony	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND (0.0030 J)	ND	ND (0.0024 J)	ND (0.0053 J)	ND (0.0018 J)	ND (0.0042 J)	ND	ND
	Barium	0.10	0.069	0.076	0.13	ND (0.014 J)	0.058	0.050	0.18
	Beryllium	ND	ND (0.00024 J)	ND	ND	ND	ND	ND	ND (0.00023 J)
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND (0.021 J)	ND (0.00052 J)	ND (0.0020 J)	ND (0.012 J)	ND (0.011 J)	ND (0.0019 J)	ND (0.00049 J)	ND (0.00090 J)
	Cobalt	ND (0.0028 J)	ND (0.00046 J)	ND (0.0015 J)	ND (0.0037 J)	ND	ND	ND	ND (0.00099 J)
	Lead	ND (0.0098 J)	ND	ND (0.00041 J)	ND (0.0025 J)	ND (0.00033 J)	ND	ND (0.000064 J)	ND
	Lithium	ND	ND (0.0012 J)	0.013	ND	ND	ND	ND	ND (0.0018 J)
	Molybdenum	ND	ND	0.10	ND	ND	0.060	ND	ND
	Radium	33.8	2.83	2.17	7.23	5.45	3.13	0.220 U	3.09
	Selenium	ND (0.0072 J)	ND	ND	ND (0.0073 J)	ND	ND (0.0024 J)	ND	ND
Thallium	ND	ND (0.000062 J)	ND	ND (0.00031 J)	ND	ND (0.000054 J)	ND	ND	
See Note 8	Vanadium	0.11	ND	ND	ND (0.033 J)	ND (0.018 J)	ND	ND	ND
	Zinc	0.095	ND (0.0077 J)	ND (0.0064 J)	ND (0.0081 J)	ND (0.016 J)	ND (0.0057 J)	ND (0.0050 J)	ND (0.0054 J)

Notes:

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

Table 6B
Grumman Road Landfill
Summary of Groundwater Analytical Data - October 2019

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		10/8/2019	10/9/2019	10/8/2019	10/8/2019	10/8/2019	10/8/2019	10/9/2019	10/9/2019
APPENDIX III	Boron	0.22	8.2	0.18	0.048	1.1	8.4	1.3	0.79
	Calcium	69.2	54.2	2.3	146	129	205	56.6	80.1
	Chloride	89.0	44.1	4.0	40.2	2.9	46.4	330	5.4
	Fluoride	ND	ND	ND	ND	ND	ND	ND	ND
	pH	4.93	4.25	4.81	5.68	6.65	5.54	4.66	6.50
	Sulfate	310	392	22.0	428	45.8	872	346	58.5
	TDS	613	647	51.0	841	526	1500	1100	434
APPENDIX IV	Antimony	ND (0.00046 J)	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND (0.0017 J)	0.13	0.088	ND (0.0011 J)	0.35
	Barium	0.13	0.019	0.024	0.085	0.057	0.13	0.032	0.078
	Beryllium	ND	ND (0.00046 J)	ND	ND	ND	ND (0.000098 J)	ND (0.0018 J)	ND
	Cadmium	ND (0.00043 J)	ND	ND	ND	ND	ND	ND	ND
	Chromium	ND (0.00091 J)	ND (0.00081 J)	ND	ND (0.00053 J)	ND (0.0017 J)	ND (0.00099 J)	ND (0.00081 J)	ND (0.0011 J)
	Cobalt	ND	ND (0.00094 J)	ND	ND	ND	ND	ND (0.0024 J)	ND
	Lead	ND (0.00028 J)	ND (0.000066 J)	ND (0.00013 J)	ND	ND (0.00012 J)	ND (0.00010 J)	ND (0.00015 J)	ND (0.00018 J)
	Lithium	ND	ND (0.0011 J)	ND	ND	ND	ND	ND (0.0046 J)	ND
	Molybdenum	ND	ND	ND	0.034	0.091	0.20	ND (0.0036 J)	0.071
	Radium	6.39	3.11	1.62	1.41	1.52	1.89	2.91	2.28
	Selenium	ND	ND	ND	ND (0.0026 J)	0.014	ND (0.0023 J)	ND	ND
Thallium	ND (0.000098 J)	ND (0.00014 J)	ND	ND	ND	ND	ND (0.000076 J)	ND	
See Note 8	Vanadium	ND	ND (0.0021 J)	ND	ND	ND	ND	ND	ND
	Zinc	ND (0.0061 J)	ND (0.0057 J)	0.053	ND (0.0052 J)	ND (0.0051 J)	0.010	0.011	ND (0.0049 J)

Notes:

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

Table 6B
Grumman Road Landfill
Summary of Groundwater Analytical Data - October 2019

Substance		Well ID	
		GWC-21	GWC-22
		10/8/2019	10/9/2019
APPENDIX III	Boron	1.0	0.39
	Calcium	49.5	30.1
	Chloride	7.8	25.3
	Fluoride	ND	ND
	pH	6.09	4.68
	Sulfate	85.6	80.2
	TDS	278	211
APPENDIX IV	Antimony	ND	ND
	Arsenic	ND (0.0028 J)	ND
	Barium	0.079	0.065
	Beryllium	ND	ND
	Cadmium	ND	ND (0.00012 J)
	Chromium	ND (0.00065 J)	ND (0.00072 J)
	Cobalt	ND	ND
	Lead	ND (0.00016 J)	ND (0.00032 J)
	Lithium	ND	ND
	Molybdenum	0.078	ND
	Radium	1.88	3.68
	Selenium	0.019	ND
	Thallium	ND	ND
See Note 8	Vanadium	ND	ND
	Zinc	ND (0.0071 J)	ND (0.0079 J)

Notes:

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

Table 6C
Grumman Road Landfill
Summary of Groundwater Analytical Data - April 2020

Substance		Well ID							
		GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9
		4/6/2020	4/6/2020	4/7/2020	4/7/2020	4/7/2020	4/7/2020	4/8/2020	4/8/2020
APPENDIX III	Boron	6.1	0.14	5.5	4.6	5.6	1.0	0.031 J	0.023 J
	Calcium	3.1	35.8	62.1	34.1	7.8	31.1	0.24 J	5.3
	Chloride	30.2	13.5	14.5	44.3	56.4	7.7	5.2	16.9
	Fluoride	0.13 J	0.089 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.058 J
	pH	6.02	4.52	5.74	5.45	5.86	5.36	4.66	4.73
	Sulfate	20.3	123	221	180	180	83.0	12.9	34.2
	TDS	1670	214	482	483	775	195	38	80
APPENDIX IV	Antimony	< 0.0014	< 0.00027	< 0.00027	< 0.00027	< 0.0014	< 0.00027	0.0013 J	0.00033 J
	Arsenic	< 0.0018	0.00045 J	0.0027 J	0.0011 J	< 0.0018	0.027	0.00094 J	0.00084 J
	Barium	0.072	0.057	0.090	0.098	0.010 J	0.050	0.061	0.15
	Beryllium	< 0.00037	0.00017 J	< 0.000074	< 0.000074	< 0.00037	< 0.000074	0.000088 J	0.00019 J
	Cadmium	< 0.00057	< 0.00011	< 0.00011	< 0.00011	< 0.00057	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.015 J	< 0.00039	0.0028 J	0.0022 J	0.0094 J	0.0015 J	0.00069 J	0.0015 J
	Cobalt	0.0021 J	0.00036 J	0.00090 J	0.00053 J	< 0.0015	< 0.00030	0.00036 J	0.0010 J
	Lead	0.0024 J	0.00010 J	0.00073 J	0.0014 J	0.00063 J	0.00012 J	< 0.000046	0.00021 J
	Lithium	< 0.0039	0.00086 J	0.014 J	< 0.00078	< 0.0039	< 0.00078	< 0.00078	0.0018 J
	Molybdenum	< 0.0047	< 0.00095	0.13	< 0.00095	< 0.0047	0.014	< 0.00095	< 0.00095
	Radium	25.7	2.83	2.44	3.57	6.25	1.97	1.13 U	1.92
	Selenium	0.0078 J	< 0.0013	0.0025 J	< 0.0013	< 0.0063	0.0013 J	< 0.0013	< 0.0013
Thallium	< 0.00026	< 0.000052	< 0.000052	< 0.000052	< 0.00026	0.000054 J	< 0.000052	< 0.000052	
See Note 8	Vanadium	0.12	< 0.00071	0.0037 J	0.0053 J	0.041 J	0.0015 J	< 0.00071	0.0015 J
	Zinc	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018

Notes:

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

Table 6C
Grumman Road Landfill
Summary of Groundwater Analytical Data - April 2020

Substance		Well ID							
		GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20
		4/7/2020	4/7/2020	4/8/2020	4/7/2020	4/7/2020	4/7/2020	4/8/2020	4/8/2020
APPENDIX III	Boron	0.67	5.3	0.28	0.061 J	0.96	10.5	0.99	2.5
	Calcium	84.7	52.1	2.5	135	129	225	53.1	175
	Chloride	103	32.5	4.5	41.6	3.4	49.3	277	20.2
	Fluoride	< 0.050	0.27 J	< 0.050	< 0.050	< 0.050	< 0.050	0.55	< 0.050
	pH	5.05	4.10	4.81	6.20	6.83	5.94	4.71	6.31
	Sulfate	446	297	30.7	456	26.9	844	239	428
	TDS	780	464	65	843	428	1500	881	986
APPENDIX IV	Antimony	0.00066 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.0014	< 0.00027	< 0.00027
	Arsenic	< 0.00035	< 0.00035	< 0.00035	0.0018 J	0.24	0.091	0.0013 J	0.33
	Barium	0.14	0.017	0.027	0.073	0.033	0.13	0.055	0.19
	Beryllium	< 0.000074	0.00051 J	< 0.000074	< 0.000074	< 0.000074	< 0.00037	0.0017 J	< 0.000074
	Cadmium	0.00051 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00057	< 0.00011	< 0.00011
	Chromium	0.00094 J	0.00082 J	0.00058 J	0.00074 J	0.0014 J	< 0.0020	0.00073 J	0.0010 J
	Cobalt	< 0.00030	0.00077 J	< 0.00030	< 0.00030	< 0.00030	< 0.0015	0.0024 J	< 0.00030
	Lead	0.00036 J	0.000081 J	0.00017 J	< 0.000046	0.000086 J	0.00023 J	0.000084 J	< 0.000046
	Lithium	< 0.00078	0.00094 J	< 0.00078	< 0.00078	< 0.00078	< 0.0039	0.0051 J	< 0.00078
	Molybdenum	< 0.00095	< 0.00095	0.0056 J	0.014	0.070	0.25	0.0024 J	0.060
	Radium	7.87	2.18	1.08 U	1.41	1.82	4.17	2.79	4.19
	Selenium	0.0021 J	< 0.0013	< 0.0013	0.0050 J	0.0029 J	< 0.0063	< 0.0013	0.0013 J
Thallium	0.00019 J	0.00013 J	< 0.000052	< 0.000052	< 0.000052	< 0.00026	0.000056 J	< 0.000052	
See Note 8	Vanadium	< 0.00071	0.0024 J	< 0.00071	0.0026 J	< 0.00071	< 0.0035	< 0.00071	< 0.00071
	Zinc	< 0.018	< 0.018	0.023	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018

Notes:

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

Table 6C
Grumman Road Landfill
Summary of Groundwater Analytical Data - April 2020

Substance		Well ID	
		GWC-21	GWC-22
		4/7/2020	4/7/2020
APPENDIX III	Boron	0.24	3.1
	Calcium	12.5	65.7
	Chloride	4.7	146
	Fluoride	< 0.050	< 0.050
	pH	6.00	4.80
	Sulfate	33.2	333
	TDS	106	819
APPENDIX IV	Antimony	< 0.00027	0.00049 J
	Arsenic	< 0.00035	0.00043 J
	Barium	0.054	0.10
	Beryllium	< 0.000074	< 0.000074
	Cadmium	< 0.00011	0.00054 J
	Chromium	< 0.00039	0.00049 J
	Cobalt	< 0.00030	0.00037 J
	Lead	< 0.000046	0.00067 J
	Lithium	< 0.00078	< 0.00078
	Molybdenum	0.012	< 0.00095
	Radium	1.80	7.66
	Selenium	0.012	< 0.0013
Thallium	< 0.000052	0.000065 J	
See Note 8	Vanadium	< 0.00071	0.0014 J
	Zinc	< 0.018	< 0.018

Notes:

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

**Table 7
Statistical Method Summary**

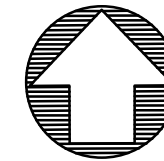
Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-7 and GWA-8
	Downgradient Wells	GWC-1, GWC-2, GWB-4R, GWB-5R, GWB-6R, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, 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
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 (calcium, chloride, fluoride, pH, and sulfate) or intrawell (boron, TDS, Appendix I and II) statistical limits are on constituent specific basis, depending on the appropriateness of the method as determined by the Analysis of Variance

FIGURES

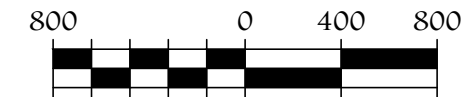
F:\Industrial\054-Southern Company\110-Grumman Road\3-Off Sampling and Reporting\2020\Map\Plant Krefl Grumman Road LF - April 2020 Map.dwg 2020-06-23 RYAN WALKER



LOCATION IN THE STATE OF GEORGIA (NOT TO SCALE)



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY

NOTES:

1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON AUGUST 30, 2018.

PROJECT



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

SITE MAP

PROJECT NO. I054-110

June 2020

DRAWN BY: MM

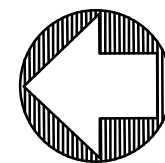
FIGURE:

CHECKED BY: EP

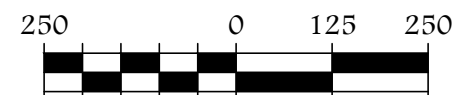
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F:\Industrial\09-Southern Company\110-Grumman Consulting Services\Grumman Road\2020\Map\Plant Krefl Grumman Road LF - April 2020 Map.dwg 2020-06-23 RYAN WALKER



ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
---	PROPERTY BOUNDARY
○ GWC-1	GROUNDWATER MONITORING NETWORK WELL
⊕ GWC-3 (NM)	NON-NETWORK WELL (NOT MONITORED)

NOTES:
 1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON AUGUST 30, 2018.

PROJECT



GEORGIA POWER COMPANY
 GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

WELL LOCATION MAP

PROJECT NO. I054-110 June 2020

DRAWN BY:	MM	FIGURE:	2
CHECKED BY:	EP		

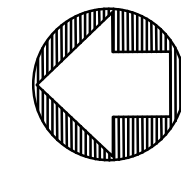


P:\Industrial\054-Southern Company\110-Groundwater Consulting Services\Grumman Road\2-GW Sampling And Reporting\2019\dwg\Plant Kraft Grumman Road LF - August 2019 Map.dwg 2020-07-13 RYAN WALKER

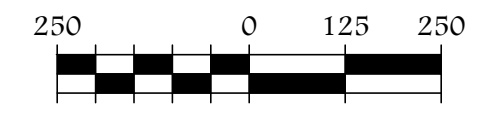
Groundwater Elevations and Well Depths
Grumman Road Landfill August 2019

Monitoring Well ID	Well Depth (ft btoc)	Top of Casing (SD)	Depth to Water (ft btoc)	Groundwater Elevation (SD)
GWA-7	21.2	47.10	7.01	40.09
GWA-8	20.8	46.84	9.03	37.81
GWB-4R	23.3	45.86*	11.54	34.32
GWB-5R	26.5	47.82	10.58	37.24
GWB-6R	22.7	47.40	8.46	38.94
GWC-1	28.2	50.30	19.31	30.99
GWC-2	31.4	NA*	19.53	NA*
GWC-9	27.4	47.11	10.11	37.00
GWC-11	22.6	49.38	13.83	35.55
GWC-12	26.7	47.48	13.79	33.69
GWC-13	23.8	47.82	14.34	33.48
GWC-14	27.0	50.67	19.65	31.02
GWC-15	26.8	48.12	19.31	28.81
GWC-16	28.2	47.79	20.70	27.09
GWC-17	23.2	44.09	6.52	37.57
GWC-20	25.0	50.03	21.06	28.97
GWC-21	23.8	47.94	20.55	27.39
GWC-22	18.6	46.72	9.49	37.23

- Notes:
1. ft btoc - feet below top of casing.
 2. SD indicates feet relative to Site Datum.
 3. Depths to water measured on August 26, 2019.
 4. * - New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD; GWC-2 is 51.84 SD.
 5. NA indicates not available.



ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY
	GWC-1 31.96 GROUNDWATER MONITORING NETWORK WELL GROUNDWATER ELEVATION
	GWC-3 (NM) NON-NETWORK WELL (NOT MONITORED)
	36 — 36 GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON AUGUST 30, 2018.
 2. WATER LEVEL FROM GWC-16 NOT USED TO CALCULATE POTENTIOMETRIC SURFACE.

PROJECT



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

AUGUST 2019 POTENTIOMETRIC SURFACE MAP

PROJECT NO. I054-110 JUNE 2020

DRAWN BY: MM

FIGURE:

CHECKED BY: EP

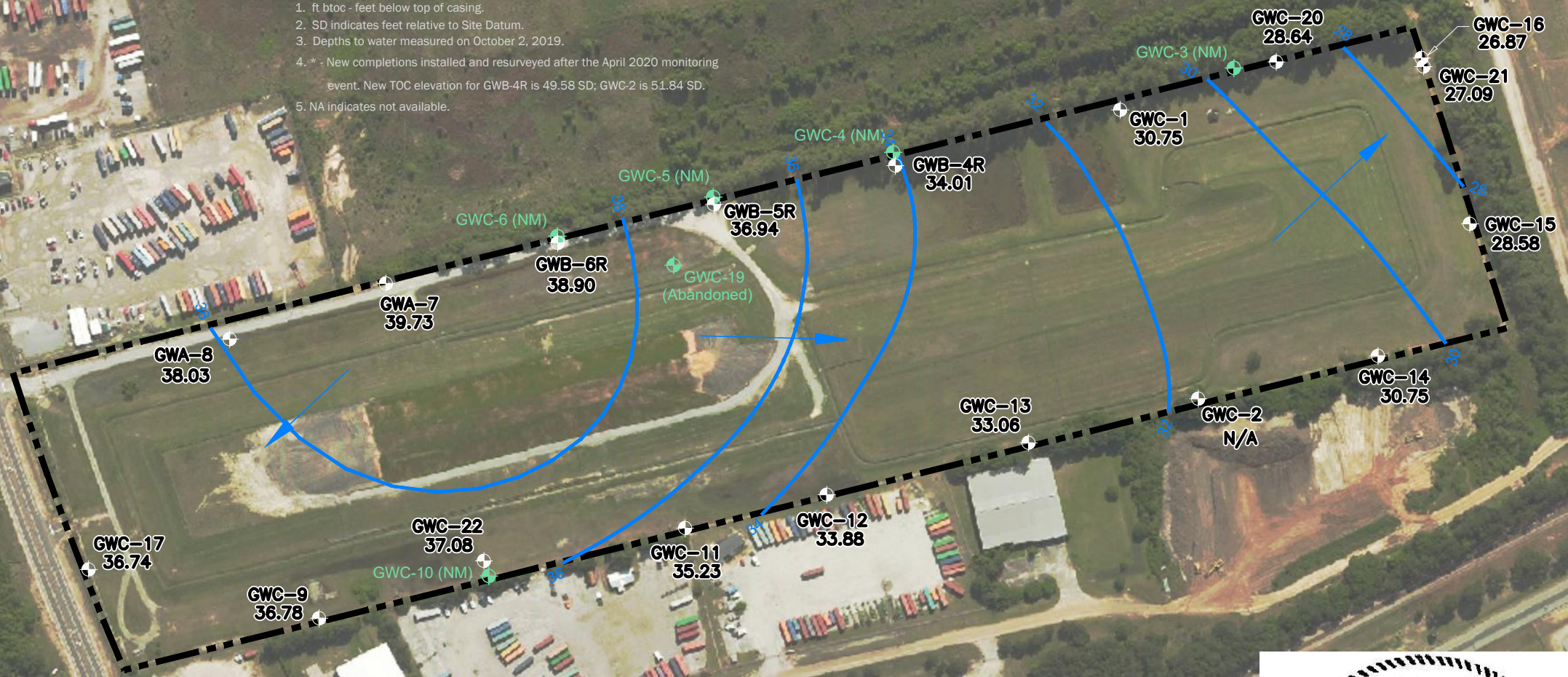


P:\Industrial\054-Southern Company\110-Groundwater Consulting Services\Grumman Road\2-GW Sampling And Reporting\2019\dwg\Plant Kraft Grumman Road LF - October 2019 Map.dwg 2020-07-13 RYAN WALKER

Groundwater Elevations and Well Depths
Grumman Road Landfill October 2019

Monitoring Well ID	Well Depth (ft btoc)	Top of Casing (SD)	Depth to Water (ft btoc)	Groundwater Elevation (SD)
GWA-7	21.2	47.10	7.37	39.73
GWA-8	20.8	46.84	8.81	38.03
GWB-4R	23.3	45.86*	11.85	34.01
GWB-5R	26.5	47.82	10.88	36.94
GWB-6R	22.7	47.40	8.50	38.90
GWC-1	28.2	50.30	19.55	30.75
GWC-2	31.4	NA*	19.94	NA*
GWC-9	27.4	47.11	10.33	36.78
GWC-11	22.6	49.38	14.15	35.23
GWC-12	26.7	47.48	13.60	33.88
GWC-13	23.8	47.82	14.76	33.06
GWC-14	27.0	50.67	19.92	30.75
GWC-15	26.8	48.12	19.54	28.58
GWC-16	28.2	47.79	20.92	26.87
GWC-17	23.2	44.09	7.35	36.74
GWC-20	25.0	50.03	21.39	28.64
GWC-21	23.8	47.94	20.85	27.09
GWC-22	18.6	46.72	9.64	37.08

- Notes:
1. ft btoc - feet below top of casing.
 2. SD indicates feet relative to Site Datum.
 3. Depths to water measured on October 2, 2019.
 4. * - New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD; GWC-2 is 51.84 SD.
 5. NA indicates not available.



ATLANTIC COAST CONSULTING, INC.

SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY
	GROUNDWATER MONITORING NETWORK WELL GROUNDWATER ELEVATION
	NON-NETWORK WELL (NOT MONITORED)
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON AUGUST 30, 2018.
 2. WATER LEVEL FROM GWC-16 NOT USED TO CALCULATE POTENTIOMETRIC SURFACE.
 3. N/A = WATER LEVEL WAS UNABLE TO BE MEASURED.

PROJECT

Georgia Power
GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

OCTOBER 2019 POTENTIOMETRIC SURFACE MAP

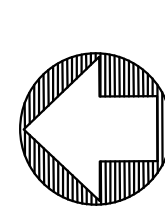


PROJECT NO. 1054-110	JUNE 2020
DRAWN BY: RW	FIGURE:
CHECKED BY: MM	4

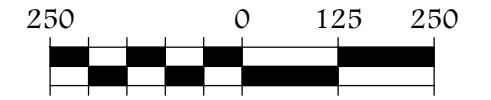
Groundwater Elevations and Well Depths
Grumman Road Landfill April 2020

Monitoring Well ID	Well Depth (ft btoc)	Top of Casing (SD)	Depth to Water (ft btoc)	Groundwater Elevation (SD)
GWA-7	21.2	47.10	5.99	41.11
GWA-8	20.8	46.84	7.38	39.46
GWB-4R	23.3	45.86	10.83	35.03
GWB-5R	26.5	47.82	8.66	39.16
GWB-6R	22.7	47.40	7.12	40.28
GWC-1	28.2	50.30	18.34	31.96
GWC-2	31.4	NA*	17.44	NA*
GWC-9	27.4	47.11	7.66	39.45
GWC-11	22.6	49.38	10.71	38.67
GWC-12	26.7	47.48	10.70	36.78
GWC-13	23.8	47.82	12.06	35.76
GWC-14	27.0	50.67	17.97	32.70
GWC-15	26.8	48.12	18.45	29.67
GWC-16	28.2	47.79	19.97	27.82
GWC-17	23.2	44.09	6.81	37.28
GWC-20	25.0	50.03	20.55	29.48
GWC-21	23.8	47.94	19.86	28.08
GWC-22	18.6	46.72	7.12	39.60

- Notes:
1. ft btoc - feet below top of casing.
 2. SD Indicates feet relative to Sea Datum.
 3. Depths to water measured on April 6, 2020.
 4. * = New completions installed and resurveyed after the April 2020 monitoring event. New TOC elevation for GWB-4R is 49.58 SD, GWC-2 is 51.84 SD.
 5. NA Indicates Not Available.



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	PROPERTY BOUNDARY
	GROUNDWATER MONITORING NETWORK WELL GROUNDWATER ELEVATION
	NON-NETWORK WELL (NOT MONITORED)
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON AUGUST 30, 2018.
 2. WATER LEVEL FROM GWC-16 NOT USED TO CALCULATE POTENTIOMETRIC SURFACE.
 3. N/A = WATER LEVEL WAS UNABLE TO BE MEASURED.

PROJECT



GEORGIA POWER COMPANY
GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

APRIL 2020 POTENTIOMETRIC SURFACE
MAP

PROJECT NO. I054-110

JUNE 2020

DRAWN BY: RW

FIGURE:

CHECKED BY: MM

5



\\ATLANTA1\Projects\Industrial\054-110-Groundwater Consulting Services\Grumman Road\2-CW Sampling And Reporting\2020\GWC\Plant Kraft Grumman Road LF - April 2020 Map.dwg 2020-07-14 EVAN PERRY

APPENDICES

APPENDIX A

Laboratory Analytical and Field Sampling Reports

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622501

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622501001	GWA-7	Water	08/26/19 16:15	08/28/19 13:45
2622501002	GWB-6R	Water	08/27/19 14:15	08/28/19 13:45

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2622501001	GWA-7	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
2622501002	GWB-6R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Sample: GWA-7		Lab ID: 2622501001		Collected: 08/26/19 16:15		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony, Dissolved	0.00029J	mg/L	0.0030	0.00027	1	08/29/19 15:59	08/30/19 16:05	7440-36-0		
Arsenic, Dissolved	0.0028J	mg/L	0.0050	0.00035	1	08/29/19 15:59	08/30/19 16:05	7440-38-2		
Barium, Dissolved	0.087	mg/L	0.010	0.00049	1	08/29/19 15:59	08/30/19 16:05	7440-39-3		
Beryllium, Dissolved	0.00012J	mg/L	0.0030	0.000074	1	08/29/19 15:59	08/30/19 16:05	7440-41-7		
Cadmium, Dissolved	ND	mg/L	0.0025	0.00011	1	08/29/19 15:59	08/30/19 16:05	7440-43-9		
Chromium, Dissolved	0.10	mg/L	0.010	0.00039	1	08/29/19 15:59	08/30/19 16:05	7440-47-3		
Cobalt, Dissolved	0.0045J	mg/L	0.0050	0.00030	1	08/29/19 15:59	08/30/19 16:05	7440-48-4		
Lead, Dissolved	0.00028J	mg/L	0.0050	0.000046	1	08/29/19 15:59	08/30/19 16:05	7439-92-1		
Lithium, Dissolved	ND	mg/L	0.030	0.00078	1	08/29/19 15:59	08/30/19 16:05	7439-93-2		
Molybdenum, Dissolved	0.0018J	mg/L	0.010	0.00095	1	08/29/19 15:59	08/30/19 16:05	7439-98-7		
Selenium, Dissolved	0.0075J	mg/L	0.010	0.0013	1	08/29/19 15:59	08/30/19 16:05	7782-49-2		
Thallium, Dissolved	ND	mg/L	0.0010	0.000052	1	08/29/19 15:59	08/30/19 16:05	7440-28-0		
7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	mg/L	0.00020	0.00014	1	09/04/19 08:28	09/04/19 12:45	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Sample: GWB-6R		Lab ID: 2622501002		Collected: 08/27/19 14:15		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony, Dissolved	ND	mg/L	0.0030	0.00027	1	08/29/19 15:59	08/30/19 16:10	7440-36-0		
Arsenic, Dissolved	0.0034J	mg/L	0.0050	0.00035	1	08/29/19 15:59	08/30/19 16:10	7440-38-2		
Barium, Dissolved	0.012	mg/L	0.010	0.00049	1	08/29/19 15:59	08/30/19 16:10	7440-39-3		
Beryllium, Dissolved	ND	mg/L	0.0030	0.000074	1	08/29/19 15:59	08/30/19 16:10	7440-41-7		
Cadmium, Dissolved	ND	mg/L	0.0025	0.00011	1	08/29/19 15:59	08/30/19 16:10	7440-43-9		
Chromium, Dissolved	0.011	mg/L	0.010	0.00039	1	08/29/19 15:59	08/30/19 16:10	7440-47-3		
Cobalt, Dissolved	ND	mg/L	0.0050	0.00030	1	08/29/19 15:59	08/30/19 16:10	7440-48-4		
Lead, Dissolved	0.000052J	mg/L	0.0050	0.000046	1	08/29/19 15:59	08/30/19 16:10	7439-92-1		
Lithium, Dissolved	ND	mg/L	0.030	0.00078	1	08/29/19 15:59	08/30/19 16:10	7439-93-2		
Molybdenum, Dissolved	0.0020J	mg/L	0.010	0.00095	1	08/29/19 15:59	08/30/19 16:10	7439-98-7		
Selenium, Dissolved	0.0036J	mg/L	0.010	0.0013	1	08/29/19 15:59	08/30/19 16:10	7782-49-2		
Thallium, Dissolved	ND	mg/L	0.0010	0.000052	1	08/29/19 15:59	08/30/19 16:10	7440-28-0		
7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	mg/L	0.00020	0.00014	1	09/04/19 08:28	09/04/19 12:55	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622501

QC Batch: 34689 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 2622501001, 2622501002

METHOD BLANK: 156132 Matrix: Water
Associated Lab Samples: 2622501001, 2622501002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.00014	09/04/19 12:41	

LABORATORY CONTROL SAMPLE: 156133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0026	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156134 156135

Parameter	Units	156134		156135		% Rec	MSD	% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
		2622501001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									
Mercury, Dissolved	mg/L	ND	0.0025	0.0025	0.0019	0.0019	77	78	75-125	0	20			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622501

QC Batch: 34497 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET Dissolved
Associated Lab Samples: 2622501001, 2622501002

METHOD BLANK: 155181 Matrix: Water
Associated Lab Samples: 2622501001, 2622501002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00027	08/30/19 14:48	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00035	08/30/19 14:48	
Barium, Dissolved	mg/L	ND	0.010	0.00049	08/30/19 14:48	
Beryllium, Dissolved	mg/L	ND	0.0030	0.000074	08/30/19 14:48	
Cadmium, Dissolved	mg/L	ND	0.0025	0.00011	08/30/19 14:48	
Chromium, Dissolved	mg/L	ND	0.010	0.00039	08/30/19 14:48	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00030	08/30/19 14:48	
Lead, Dissolved	mg/L	ND	0.0050	0.000046	08/30/19 14:48	
Lithium, Dissolved	mg/L	ND	0.030	0.00078	08/30/19 14:48	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00095	08/30/19 14:48	
Selenium, Dissolved	mg/L	ND	0.010	0.0013	08/30/19 14:48	
Thallium, Dissolved	mg/L	ND	0.0010	0.000052	08/30/19 14:48	

METHOD BLANK: 155216 Matrix: Water
Associated Lab Samples: 2622501001, 2622501002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00027	08/30/19 14:59	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00035	08/30/19 14:59	
Barium, Dissolved	mg/L	ND	0.010	0.00049	08/30/19 14:59	
Beryllium, Dissolved	mg/L	ND	0.0030	0.000074	08/30/19 14:59	
Cadmium, Dissolved	mg/L	ND	0.0025	0.00011	08/30/19 14:59	
Chromium, Dissolved	mg/L	ND	0.010	0.00039	08/30/19 14:59	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00030	08/30/19 14:59	
Lead, Dissolved	mg/L	ND	0.0050	0.000046	08/30/19 14:59	
Lithium, Dissolved	mg/L	ND	0.030	0.00078	08/30/19 14:59	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00095	08/30/19 14:59	
Selenium, Dissolved	mg/L	ND	0.010	0.0013	08/30/19 14:59	
Thallium, Dissolved	mg/L	ND	0.0010	0.000052	08/30/19 14:59	

LABORATORY CONTROL SAMPLE: 155182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.10	101	80-120	
Arsenic, Dissolved	mg/L	0.1	0.098	98	80-120	
Barium, Dissolved	mg/L	0.1	0.10	101	80-120	
Beryllium, Dissolved	mg/L	0.1	0.098	98	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

LABORATORY CONTROL SAMPLE: 155182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	mg/L	0.1	0.10	100	80-120	
Cobalt, Dissolved	mg/L	0.1	0.096	96	80-120	
Lead, Dissolved	mg/L	0.1	0.098	98	80-120	
Lithium, Dissolved	mg/L	0.1	0.10	101	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	102	80-120	
Selenium, Dissolved	mg/L	0.1	0.099	99	80-120	
Thallium, Dissolved	mg/L	0.1	0.099	99	80-120	

LABORATORY CONTROL SAMPLE: 155217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.10	102	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	100	80-120	
Barium, Dissolved	mg/L	0.1	0.10	101	80-120	
Beryllium, Dissolved	mg/L	0.1	0.10	101	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	100	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	103	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	101	80-120	
Lead, Dissolved	mg/L	0.1	0.098	98	80-120	
Lithium, Dissolved	mg/L	0.1	0.10	102	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	102	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	100	80-120	
Thallium, Dissolved	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155252 155253

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2622396001 Result	Spike Conc.	Spike Conc.	Result						
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	101	104	75-125	2	20
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.098	0.097	98	96	75-125	1	20
Barium, Dissolved	mg/L	35.0 ug/L	0.1	0.1	0.13	0.14	100	103	75-125	2	20
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.099	0.10	98	99	75-125	1	20
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	99	102	75-125	3	20
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	97	99	75-125	2	20
Lead, Dissolved	mg/L	ND	0.1	0.1	0.096	0.10	96	100	75-125	4	20
Lithium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	101	104	75-125	3	20
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	5	20
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622501

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622501001	GWA-7	EPA 3005A	34497	EPA 6020B	34520
2622501002	GWB-6R	EPA 3005A	34497	EPA 6020B	34520
2622501001	GWA-7	EPA 7470A	34689	EPA 7470A	34709
2622501002	GWB-6R	EPA 7470A	34689	EPA 7470A	34709

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 21 OF 21

CLIENT NAME: Georgia Power
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239
REPORT TO: E PERCY@ATLCC.NET
REQUESTED COMPLETION DATE: PO #:
PROJECT NAME/STATE: Plant Kraft Grumman Road
PROJECT #: 2019 AIV Scan Event

CONTAINER TYPE:	ANALYSIS REQUESTED	DATE/TIME:	RELINQUISHED BY:
3. <i>*FIELD FILTER</i>	Flouride	8-27-19 1715	<i>[Signature]</i>
Metals App. IV (EPA 60207470) ✓	Radium 226 & 228 (SW-846 9315/9320)	8-28-19 0830	<i>[Signature]</i>

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, ≤6°C
A - AMBER GLASS	2 - H ₂ SO ₄ , ≤6°C
G - CLEAR GLASS	3 - HNO ₃
V - VOA VIAL	4 - NaOH, ≤6°C
S - STERILE	5 - NaOH/NaAc, ≤6°C
O - OTHER	6 - Na ₂ S ₂ O ₈ , ≤6°C
	7 - ≤6°C not frozen

MATRIX CODES:	REMARKS/ADDITIONAL INFORMATION
DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

WO#: 2622501

SAMPLED BY AND TITLE: O. FURQUEA (S.I.)
DATE/TIME: 8-27-19 1715
RECEIVED BY: *[Signature]*
DATE/TIME: 8-28-19 0830
RECEIVED BY LAB: *[Signature]*
DATE/TIME: 8/28/19 1345
PH Checked: Yes No NA
 Temperature: *4.0* Mic: *4.0* Mac: *4.0*
 Integrity Seal: Intact Broken Not Present
 SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER
 CLIENT: OTHER FS
 Cooler ID:
 Entered into LIMS: Tracking #:
 FOR LAB USE ONLY
 LAB #:



Sample Condition Upon Receipt

Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____

WO#: **2622501**

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

PM: **BM** Due Date: **09/05/19**
CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Comments: _____
Date and Initials of person examining contents: 8/28/19 MB

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/9/2019. The report has been revised to correct the project-required RLs per consultant request. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622502001	GWA-7	Water	08/26/19 16:15	08/28/19 13:45
2622502002	GWC-15	Water	08/27/19 09:25	08/28/19 13:45
2622502003	GWC-14	Water	08/27/19 10:20	08/28/19 13:45
2622502004	GWC-2	Water	08/27/19 11:15	08/28/19 13:45
2622502005	GWC-13	Water	08/27/19 12:30	08/28/19 13:45
2622502006	GWB-6R	Water	08/27/19 14:15	08/28/19 13:45
2622502007	GWB-4R	Water	08/27/19 17:15	08/28/19 13:45
2622502008	GWA-8	Water	08/26/19 15:40	08/28/19 13:45
2622502009	FB-1-8-27-19	Water	08/27/19 09:10	08/28/19 13:45
2622502010	GWC-12	Water	08/27/19 09:30	08/28/19 13:45
2622502011	GWC-11	Water	08/27/19 11:55	08/28/19 13:45
2622502012	GWC-22	Water	08/27/19 14:30	08/28/19 13:45
2622502013	EB-1-8-27-19	Water	08/27/19 15:30	08/28/19 13:45
2622502014	GWC-1	Water	08/27/19 17:00	08/28/19 13:45
2622502015	Dup-1	Water	08/27/19 00:00	08/28/19 13:45

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622502001	GWA-7	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502002	GWC-15	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502003	GWC-14	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502004	GWC-2	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502005	GWC-13	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502006	GWB-6R	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502007	GWB-4R	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0	MWB	1	PASI-GA
2622502008	GWA-8	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2622502009	FB-1-8-27-19	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2622502010	GWC-12	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2622502011	GWC-11	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2622502012	GWC-22	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2622502013	EB-1-8-27-19	EPA 6020B	CSW	12	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622502014	GWC-1	EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2622502015	Dup-1	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWA-7		Lab ID: 2622502001		Collected: 08/26/19 16:15		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.015	0.0014	5	08/29/19 18:05	09/03/19 22:40	7440-36-0	D3
Arsenic	0.0041J	mg/L	0.025	0.0018	5	08/29/19 18:05	09/03/19 22:40	7440-38-2	D3
Barium	0.11	mg/L	0.050	0.0024	5	08/29/19 18:05	09/03/19 22:40	7440-39-3	
Beryllium	ND	mg/L	0.015	0.00037	5	08/29/19 18:05	09/03/19 22:40	7440-41-7	D3
Cadmium	ND	mg/L	0.012	0.00057	5	08/29/19 18:05	09/03/19 22:40	7440-43-9	D3
Chromium	0.024J	mg/L	0.050	0.0020	5	08/29/19 18:05	09/03/19 22:40	7440-47-3	D3
Cobalt	0.0037J	mg/L	0.025	0.0015	5	08/29/19 18:05	09/03/19 22:40	7440-48-4	D3
Lead	0.013J	mg/L	0.025	0.00023	5	08/29/19 18:05	09/03/19 22:40	7439-92-1	D3
Lithium	ND	mg/L	0.15	0.0039	5	08/29/19 18:05	09/03/19 22:40	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0047	5	08/29/19 18:05	09/03/19 22:40	7439-98-7	D3
Selenium	ND	mg/L	0.050	0.0063	5	08/29/19 18:05	09/03/19 22:40	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00026	5	08/29/19 18:05	09/03/19 22:40	7440-28-0	D3
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 14:52	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		09/04/19 04:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-15		Lab ID: 2622502002		Collected: 08/27/19 09:25		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/29/19 18:05	09/03/19 22:46	7440-36-0	
Arsenic	0.17	mg/L	0.0050	0.00035	1	08/29/19 18:05	09/03/19 22:46	7440-38-2	
Barium	0.049	mg/L	0.010	0.00049	1	08/29/19 18:05	09/03/19 22:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/29/19 18:05	09/03/19 22:46	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/29/19 18:05	09/03/19 22:46	7440-43-9	
Chromium	0.0016J	mg/L	0.010	0.00039	1	08/29/19 18:05	09/03/19 22:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/29/19 18:05	09/03/19 22:46	7440-48-4	
Lead	0.00033J	mg/L	0.0050	0.000046	1	08/29/19 18:05	09/03/19 22:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/29/19 18:05	09/03/19 22:46	7439-93-2	
Molybdenum	0.095	mg/L	0.010	0.00095	1	08/29/19 18:05	09/03/19 22:46	7439-98-7	
Selenium	0.0092J	mg/L	0.010	0.0013	1	08/29/19 18:05	09/03/19 22:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/29/19 18:05	09/03/19 22:46	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:13	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		09/04/19 05:16	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-14		Lab ID: 2622502003		Collected: 08/27/19 10:20		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/29/19 18:05	09/03/19 22:51	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00035	1	08/29/19 18:05	09/03/19 22:51	7440-38-2	
Barium	0.067	mg/L	0.010	0.00049	1	08/29/19 18:05	09/03/19 22:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/29/19 18:05	09/03/19 22:51	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/29/19 18:05	09/03/19 22:51	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	08/29/19 18:05	09/03/19 22:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/29/19 18:05	09/03/19 22:51	7440-48-4	
Lead	0.00051J	mg/L	0.0050	0.000046	1	08/29/19 18:05	09/03/19 22:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/29/19 18:05	09/03/19 22:51	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00095	1	08/29/19 18:05	09/03/19 22:51	7439-98-7	
Selenium	0.0035J	mg/L	0.010	0.0013	1	08/29/19 18:05	09/03/19 22:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/29/19 18:05	09/03/19 22:51	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:15	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		09/04/19 05:39	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-2		Lab ID: 2622502004		Collected: 08/27/19 11:15		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:26	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:26	7440-38-2		
Barium	0.053	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:26	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:26	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:26	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:26	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:26	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:26	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:26	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:26	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:26	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:26	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:18	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		09/04/19 06:01	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-13		Lab ID: 2622502005		Collected: 08/27/19 12:30		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:31	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:31	7440-38-2		
Barium	0.024	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:31	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:31	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:31	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:31	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:31	7440-48-4		
Lead	0.00010J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:31	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:31	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:31	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:31	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:31	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:20	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		09/04/19 07:32	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWB-6R		Lab ID: 2622502006		Collected: 08/27/19 14:15		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:37	7440-36-0	
Arsenic	0.0035J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:37	7440-38-2	
Barium	0.013	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:37	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:37	7440-43-9	
Chromium	0.0097J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:37	7440-47-3	
Cobalt	0.00038J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:37	7440-48-4	
Lead	0.0011J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:37	7439-93-2	
Molybdenum	0.0026J	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:37	7439-98-7	
Selenium	0.0033J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:37	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:23	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.13J	mg/L	0.30	0.029	1		09/04/19 07:54	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Sample: GWB-4R		Lab ID: 2622502007		Collected: 08/27/19 17:15		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:43	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:43	7440-38-2	
Barium	0.076	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:43	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:43	7440-43-9	
Chromium	0.0027J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:43	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:43	7440-48-4	
Lead	0.0010J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:43	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:43	7439-93-2	
Molybdenum	0.10	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:43	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:43	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:25	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.031J	mg/L	0.30	0.029	1		09/04/19 08:17	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWA-8		Lab ID: 2622502008		Collected: 08/26/19 15:40		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:49	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:49	7440-38-2		
Barium	0.065	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:49	7440-39-3		
Beryllium	0.00021J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:49	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:49	7440-43-9		
Chromium	0.0010J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:49	7440-47-3		
Cobalt	0.00042J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:49	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:49	7439-92-1		
Lithium	0.0012J	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:49	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:49	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:49	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:49	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:27	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.13	mg/L	0.10	0.050	1		09/06/19 17:32	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: FB-1-8-27-19		Lab ID: 2622502009		Collected: 08/27/19 09:10		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/03/19 23:54	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/03/19 23:54	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	08/30/19 16:08	09/03/19 23:54	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/03/19 23:54	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/03/19 23:54	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/03/19 23:54	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/03/19 23:54	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/03/19 23:54	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/03/19 23:54	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/03/19 23:54	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/03/19 23:54	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/03/19 23:54	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:30	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/06/19 17:46	16984-48-8	M1,R1	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Sample: GWC-12		Lab ID: 2622502010		Collected: 08/27/19 09:30		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:00	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:00	7440-38-2		
Barium	0.017	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:00	7440-39-3		
Beryllium	0.00047J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:00	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:00	7440-43-9		
Chromium	0.00085J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:00	7440-47-3		
Cobalt	0.00090J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:00	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:00	7439-92-1		
Lithium	0.00094J	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:00	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:00	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:00	7782-49-2		
Thallium	0.00011J	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:00	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:32	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.30	mg/L	0.10	0.050	1		09/06/19 18:28	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-11		Lab ID: 2622502011		Collected: 08/27/19 11:55		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00033J	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:06	7440-38-2		
Barium	0.12	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:06	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:06	7440-41-7		
Cadmium	0.00044J	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:06	7440-43-9		
Chromium	0.00092J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:06	7440-48-4		
Lead	0.00021J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:06	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:34	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/06/19 18:42	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Sample: GWC-22		Lab ID: 2622502012		Collected: 08/27/19 14:30		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00045J	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:40	7440-36-0		
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:40	7440-38-2		
Barium	0.097	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:40	7440-39-3		
Beryllium	0.000090J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:40	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:40	7440-43-9		
Chromium	0.00057J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:40	7440-47-3		
Cobalt	0.00077J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:40	7440-48-4		
Lead	0.0030J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:40	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:40	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:40	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:40	7782-49-2		
Thallium	0.000086J	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:40	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:42	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.10	mg/L	0.10	0.050	1		09/06/19 19:25	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: EB-1-8-27-19		Lab ID: 2622502013		Collected: 08/27/19 15:30		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:46	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:46	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:46	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:46	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:46	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:46	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:46	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:46	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:46	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:46	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:46	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:46	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:44	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/06/19 19:39	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: GWC-1		Lab ID: 2622502014		Collected: 08/27/19 17:00		Received: 08/28/19 13:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:52	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:52	7440-38-2	
Barium	0.054	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:52	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:52	7440-43-9	
Chromium	0.0062J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:52	7439-93-2	
Molybdenum	0.060	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:52	7439-98-7	
Selenium	0.0016J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:52	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:46	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	ND	mg/L	0.10	0.050	1		09/06/19 19:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Sample: Dup-1		Lab ID: 2622502015		Collected: 08/27/19 00:00		Received: 08/28/19 13:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 00:57	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 00:57	7440-38-2		
Barium	0.023	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 00:57	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 00:57	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 00:57	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 00:57	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 00:57	7440-48-4		
Lead	0.000091J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 00:57	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 00:57	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 00:57	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 00:57	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 00:57	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	08/30/19 11:45	08/30/19 15:49	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/06/19 20:07	16984-48-8		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

QC Batch: 34545 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2622502001, 2622502002, 2622502003, 2622502004, 2622502005, 2622502006, 2622502007, 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015

METHOD BLANK: 155582 Matrix: Water
 Associated Lab Samples: 2622502001, 2622502002, 2622502003, 2622502004, 2622502005, 2622502006, 2622502007, 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	08/30/19 14:47	

LABORATORY CONTROL SAMPLE: 155583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155584 155585

Parameter	Units	2622502001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	84	85	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

QC Batch: 34528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622502001, 2622502002, 2622502003

METHOD BLANK: 155360 Matrix: Water
Associated Lab Samples: 2622502001, 2622502002, 2622502003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/03/19 20:11	
Arsenic	mg/L	ND	0.0050	0.00035	09/03/19 20:11	
Barium	mg/L	ND	0.010	0.00049	09/03/19 20:11	
Beryllium	mg/L	ND	0.0030	0.000074	09/03/19 20:11	
Cadmium	mg/L	ND	0.0025	0.00011	09/03/19 20:11	
Chromium	mg/L	ND	0.010	0.00039	09/03/19 20:11	
Cobalt	mg/L	ND	0.0050	0.00030	09/03/19 20:11	
Lead	mg/L	ND	0.0050	0.000046	09/03/19 20:11	
Lithium	mg/L	ND	0.030	0.00078	09/03/19 20:11	
Molybdenum	mg/L	ND	0.010	0.00095	09/03/19 20:11	
Selenium	mg/L	ND	0.010	0.0013	09/03/19 20:11	
Thallium	mg/L	ND	0.0010	0.000052	09/03/19 20:11	

LABORATORY CONTROL SAMPLE: 155361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	118	80-120	
Arsenic	mg/L	0.1	0.10	105	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Cadmium	mg/L	0.1	0.11	108	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	108	80-120	
Selenium	mg/L	0.1	0.11	107	80-120	
Thallium	mg/L	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155362 155363

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2622481002 Result	Spike Conc.	Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.12	114	117	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Barium	mg/L	0.027	0.1	0.1	0.13	0.13	101	107	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155362		155363		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2622481002 Result	MS Spike Conc.	MSD Spike Conc.									
Chromium	mg/L	0.0018J	0.1	0.1	0.11	0.11	104	107	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	103	107	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20		
Lithium	mg/L	0.0014J	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

QC Batch:	34568	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
Associated Lab Samples:	2622502004, 2622502005, 2622502006, 2622502007, 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015		

METHOD BLANK:	155672	Matrix:	Water
Associated Lab Samples:	2622502004, 2622502005, 2622502006, 2622502007, 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/03/19 23:14	
Arsenic	mg/L	ND	0.0050	0.00035	09/03/19 23:14	
Barium	mg/L	ND	0.010	0.00049	09/03/19 23:14	
Beryllium	mg/L	ND	0.0030	0.000074	09/03/19 23:14	
Cadmium	mg/L	ND	0.0025	0.00011	09/03/19 23:14	
Chromium	mg/L	ND	0.010	0.00039	09/03/19 23:14	
Cobalt	mg/L	ND	0.0050	0.00030	09/03/19 23:14	
Lead	mg/L	ND	0.0050	0.000046	09/03/19 23:14	
Lithium	mg/L	ND	0.030	0.00078	09/03/19 23:14	
Molybdenum	mg/L	ND	0.010	0.00095	09/03/19 23:14	
Selenium	mg/L	ND	0.010	0.0013	09/03/19 23:14	
Thallium	mg/L	ND	0.0010	0.000052	09/03/19 23:14	

LABORATORY CONTROL SAMPLE: 155673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155674 155675

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2622502011 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	0.00033J	0.1	0.1	0.11	0.12	114	118	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	102	106	75-125	4	20	
Barium	mg/L	0.12	0.1	0.1	0.22	0.22	100	107	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155674		155675		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2622502011 Result	MS Spike Conc.	MSD Spike Conc.									
Cadmium	mg/L	0.00044J	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Chromium	mg/L	0.00092J	0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20		
Lead	mg/L	0.00021J	0.1	0.1	0.099	0.10	98	101	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	99	107	75-125	8	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

QC Batch: 34680 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2622502001, 2622502002, 2622502003, 2622502004, 2622502005, 2622502006, 2622502007

METHOD BLANK: 156099 Matrix: Water
 Associated Lab Samples: 2622502001, 2622502002, 2622502003, 2622502004, 2622502005, 2622502006, 2622502007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.30	0.029	09/03/19 20:58	

LABORATORY CONTROL SAMPLE: 156100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	10	9.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156101 156102

Parameter	Units	2622398001		2622402001		2622402001		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Fluoride	mg/L	0.11J	0.11J	10	10	9.4	9.2	92	91	90-110	1	15

MATRIX SPIKE SAMPLE: 156103

Parameter	Units	2622402001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	10	9.6	96	90-110	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

QC Batch: 496440 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015

METHOD BLANK: 2673683 Matrix: Water
Associated Lab Samples: 2622502008, 2622502009, 2622502010, 2622502011, 2622502012, 2622502013, 2622502014, 2622502015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	09/06/19 13:48	

LABORATORY CONTROL SAMPLE: 2673684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2673685 2673686

Parameter	Units	2622572001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.78	2.5	2.5	4.9	4.8	164	160	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2673687 2673688

Parameter	Units	2622502009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	3.1	2.7	124	106	90-110	16	10	M1,R1

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622502

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622502

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622502001	GWA-7	EPA 3005A	34528	EPA 6020B	34560
2622502002	GWC-15	EPA 3005A	34528	EPA 6020B	34560
2622502003	GWC-14	EPA 3005A	34528	EPA 6020B	34560
2622502004	GWC-2	EPA 3005A	34568	EPA 6020B	34599
2622502005	GWC-13	EPA 3005A	34568	EPA 6020B	34599
2622502006	GWB-6R	EPA 3005A	34568	EPA 6020B	34599
2622502007	GWB-4R	EPA 3005A	34568	EPA 6020B	34599
2622502008	GWA-8	EPA 3005A	34568	EPA 6020B	34599
2622502009	FB-1-8-27-19	EPA 3005A	34568	EPA 6020B	34599
2622502010	GWC-12	EPA 3005A	34568	EPA 6020B	34599
2622502011	GWC-11	EPA 3005A	34568	EPA 6020B	34599
2622502012	GWC-22	EPA 3005A	34568	EPA 6020B	34599
2622502013	EB-1-8-27-19	EPA 3005A	34568	EPA 6020B	34599
2622502014	GWC-1	EPA 3005A	34568	EPA 6020B	34599
2622502015	Dup-1	EPA 3005A	34568	EPA 6020B	34599
2622502001	GWA-7	EPA 7470A	34545	EPA 7470A	34574
2622502002	GWC-15	EPA 7470A	34545	EPA 7470A	34574
2622502003	GWC-14	EPA 7470A	34545	EPA 7470A	34574
2622502004	GWC-2	EPA 7470A	34545	EPA 7470A	34574
2622502005	GWC-13	EPA 7470A	34545	EPA 7470A	34574
2622502006	GWB-6R	EPA 7470A	34545	EPA 7470A	34574
2622502007	GWB-4R	EPA 7470A	34545	EPA 7470A	34574
2622502008	GWA-8	EPA 7470A	34545	EPA 7470A	34574
2622502009	FB-1-8-27-19	EPA 7470A	34545	EPA 7470A	34574
2622502010	GWC-12	EPA 7470A	34545	EPA 7470A	34574
2622502011	GWC-11	EPA 7470A	34545	EPA 7470A	34574
2622502012	GWC-22	EPA 7470A	34545	EPA 7470A	34574
2622502013	EB-1-8-27-19	EPA 7470A	34545	EPA 7470A	34574
2622502014	GWC-1	EPA 7470A	34545	EPA 7470A	34574
2622502015	Dup-1	EPA 7470A	34545	EPA 7470A	34574
2622502001	GWA-7	EPA 300.0	34680		
2622502002	GWC-15	EPA 300.0	34680		
2622502003	GWC-14	EPA 300.0	34680		
2622502004	GWC-2	EPA 300.0	34680		
2622502005	GWC-13	EPA 300.0	34680		
2622502006	GWB-6R	EPA 300.0	34680		
2622502007	GWB-4R	EPA 300.0	34680		
2622502008	GWA-8	EPA 300.0 Rev 2.1 1993	496440		
2622502009	FB-1-8-27-19	EPA 300.0 Rev 2.1 1993	496440		
2622502010	GWC-12	EPA 300.0 Rev 2.1 1993	496440		
2622502011	GWC-11	EPA 300.0 Rev 2.1 1993	496440		
2622502012	GWC-22	EPA 300.0 Rev 2.1 1993	496440		
2622502013	EB-1-8-27-19	EPA 300.0 Rev 2.1 1993	496440		
2622502014	GWC-1	EPA 300.0 Rev 2.1 1993	496440		
2622502015	Dup-1	EPA 300.0 Rev 2.1 1993	496440		

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

Form containing client information (Georgia Power), project details (Plant Kraft Grumman Road), analysis requested (Metals, Foundry, Radium), container list (4 containers), and shipping information.

WO#: 2622502
Barcode with number 2622502

Copy of Plant Kraft - Grumman Rd COC - 2019 AIV SCAN EVENT.xlsx



CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power		CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		REPORT TO: <u>E.PENNYE@ATLCC.NET</u>		REQUESTED COMPLETION DATE:		PROJECT NAME/STATE: Plant Kraft Grumman Road		PROJECT #: 2019 AIV Scan Event	
CONTAINER TYPE: PRESERVATION: # of	P 3 P 7 P 3	ANALYSIS REQUESTED	L A B I D N U M B E R	CONTAINER TYPE PRESERVATION	REMARKS/ADDITIONAL INFORMATION	CONTAINERS					
						Metals App. IV (FPA 60207470) Fluoride Radium 226 & 228 (SW-846 9315/9320)	4 4 4 4 4 4 6	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓
SAMPLED BY AND TITLE: J. Bellisario (FG)		DATE/TIME: 8-27-19 1700	RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 0830	FOR LAB USE ONLY					
RECEIVED BY LAB: J. Bellisario (FG)		DATE/TIME: 8-28-19 1345	RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 0830	LAB #:					
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 1345	SAMPLE SHIPPED VIA: UPS		DATE/TIME: 8-28-19 0830	Entered into LIMS: Tracking #:					
Checked: <i>[Signature]</i>		Temperature: Min: <u>4.0</u> Max: <u>4.0</u>	Seal: (Intact) Broken Not Present		COURIER: <i>[Signature]</i>		CLIENT:		OTHER:		FS:

NO#: 2622502

PM: BM Due Date: **09/05/19**
CLIENT: GAPower-CCR



Sample Condition Upon Receipt

Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____

WO#: **2622502**

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

PM: **BM** Due Date: **09/05/19**
CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and initials of person examining contents: 8/28/19 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Dup-1 was not listed on the COC.</u>
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Dup-1 was added to the report.

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

September 24, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

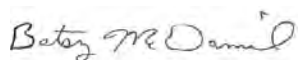
RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622503001	GWA-7	Water	08/26/19 16:15	08/28/19 13:45
2622503002	GWC-15	Water	08/27/19 09:25	08/28/19 13:45
2622503003	GWC-14	Water	08/27/19 10:20	08/28/19 13:45
2622503004	GWC-2	Water	08/27/19 11:15	08/28/19 13:45
2622503005	GWC-13	Water	08/27/19 12:30	08/28/19 13:45
2622503006	GWB-6R	Water	08/27/19 14:15	08/28/19 13:45
2622503007	GWB-4R	Water	08/27/19 17:15	08/28/19 13:45
2622503008	GWA-8	Water	08/26/19 15:40	08/28/19 13:45
2622503009	FB-1-8-27-19	Water	08/27/19 09:10	08/28/19 13:45
2622503010	GWC-12	Water	08/27/19 09:30	08/28/19 13:45
2622503011	GWC-11	Water	08/27/19 11:55	08/28/19 13:45
2622503012	GWC-22	Water	08/27/19 14:30	08/28/19 13:45
2622503013	EB-1-8-27-19	Water	08/27/19 15:30	08/28/19 13:45
2622503014	GWC-1	Water	08/27/19 17:00	08/28/19 13:45
2622503015	Dup-1	Water	08/27/19 00:00	08/28/19 13:45

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622503001	GWA-7	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503002	GWC-15	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503003	GWC-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503004	GWC-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503005	GWC-13	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503006	GWB-6R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503007	GWB-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503008	GWA-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503009	FB-1-8-27-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503010	GWC-12	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503011	GWC-11	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503012	GWC-22	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622503013	EB-1-8-27-19	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622503014	GWC-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
2622503015	Dup-1	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWA-7 **Lab ID: 2622503001** Collected: 08/26/19 16:15 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.24 ± 0.830 (0.236) C:61% T:NA	pCi/L	09/24/19 10:11	13982-63-3	
Radium-228	EPA 9320	1.79 ± 0.668 (1.03) C:75% T:81%	pCi/L	09/19/19 14:39	15262-20-1	
Total Radium	Total Radium Calculation	6.03 ± 1.50 (1.27)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-15 **Lab ID: 2622503002** Collected: 08/27/19 09:25 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.923 ± 0.366 (0.334) C:95% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.825 ± 0.462 (0.843) C:78% T:85%	pCi/L	09/19/19 14:40	15262-20-1	
Total Radium	Total Radium Calculation	1.75 ± 0.828 (1.18)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-14 **Lab ID: 2622503003** Collected: 08/27/19 10:20 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.852 ± 0.389 (0.491) C:86% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.467 ± 0.405 (0.814) C:75% T:81%	pCi/L	09/19/19 14:40	15262-20-1	
Total Radium	Total Radium Calculation	1.32 ± 0.794 (1.31)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-2 **Lab ID: 2622503004** Collected: 08/27/19 11:15 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.640 ± 0.326 (0.397) C:92% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.147 ± 0.437 (0.980) C:79% T:75%	pCi/L	09/19/19 14:40	15262-20-1	
Total Radium	Total Radium Calculation	0.787 ± 0.763 (1.38)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-13 **Lab ID: 2622503005** Collected: 08/27/19 12:30 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.499 ± 0.278 (0.319) C:91% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	0.773 ± 0.469 (0.878) C:72% T:75%	pCi/L	09/20/19 11:52	15262-20-1	
Total Radium	Total Radium Calculation	1.27 ± 0.747 (1.20)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWB-6R **Lab ID: 2622503006** Collected: 08/27/19 14:15 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.08 ± 0.937 (0.439) C:89% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	0.554 ± 0.554 (1.15) C:71% T:68%	pCi/L	09/20/19 12:25	15262-20-1	
Total Radium	Total Radium Calculation	4.63 ± 1.49 (1.59)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWB-4R **Lab ID: 2622503007** Collected: 08/27/19 17:15 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.03 ± 0.634 (0.469) C:75% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	0.941 ± 0.405 (0.634) C:75% T:80%	pCi/L	09/20/19 11:53	15262-20-1	
Total Radium	Total Radium Calculation	2.97 ± 1.04 (1.10)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWA-8 **Lab ID: 2622503008** Collected: 08/26/19 15:40 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.69 ± 0.521 (0.310) C:91% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	1.34 ± 0.565 (0.928) C:76% T:86%	pCi/L	09/19/19 14:39	15262-20-1	
Total Radium	Total Radium Calculation	3.03 ± 1.09 (1.24)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: FB-1-8-27-19 **Lab ID: 2622503009** Collected: 08/27/19 09:10 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.333 ± 0.258 (0.435) C:91% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.0955 ± 0.351 (0.797) C:79% T:80%	pCi/L	09/19/19 14:40	15262-20-1	
Total Radium	Total Radium Calculation	0.429 ± 0.609 (1.23)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-12 **Lab ID: 2622503010** Collected: 08/27/19 09:30 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.34 ± 0.469 (0.402) C:88% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.746 ± 0.536 (1.05) C:76% T:80%	pCi/L	09/19/19 15:41	15262-20-1	
Total Radium	Total Radium Calculation	2.09 ± 1.01 (1.45)	pCi/L	09/24/19 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-11 **Lab ID: 2622503011** Collected: 08/27/19 11:55 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.75 ± 0.731 (0.557) C:95% T:NA	pCi/L	09/18/19 08:31	13982-63-3	
Radium-228	EPA 9320	2.34 ± 0.670 (0.810) C:77% T:85%	pCi/L	09/20/19 11:52	15262-20-1	
Total Radium	Total Radium Calculation	5.09 ± 1.40 (1.37)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-22 **Lab ID: 2622503012** Collected: 08/27/19 14:30 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.75 ± 0.874 (0.401) C:92% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	3.29 ± 0.773 (0.565) C:77% T:87%	pCi/L	09/20/19 11:53	15262-20-1	
Total Radium	Total Radium Calculation	7.04 ± 1.65 (0.966)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: EB-1-8-27-19 **Lab ID: 2622503013** Collected: 08/27/19 15:30 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.396 ± 0.277 (0.443) C:94% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	0.381 ± 0.316 (0.628) C:79% T:81%	pCi/L	09/20/19 11:53	15262-20-1	
Total Radium	Total Radium Calculation	0.777 ± 0.593 (1.07)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: GWC-1 **Lab ID: 2622503014** Collected: 08/27/19 17:00 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.36 ± 0.472 (0.367) C:92% T:NA	pCi/L	09/18/19 08:37	13982-63-3	
Radium-228	EPA 9320	1.05 ± 0.420 (0.642) C:78% T:83%	pCi/L	09/20/19 11:53	15262-20-1	
Total Radium	Total Radium Calculation	2.41 ± 0.892 (1.01)	pCi/L	09/23/19 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Sample: Dup-1 **Lab ID: 2622503015** Collected: 08/27/19 00:00 Received: 08/28/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.645 ± 0.319 (0.389) C:94% T:NA	pCi/L	09/17/19 08:42	13982-63-3	
Radium-228	EPA 9320	0.0669 ± 0.345 (0.788) C:78% T:85%	pCi/L	09/19/19 14:40	15262-20-1	
Total Radium	Total Radium Calculation	0.712 ± 0.664 (1.18)	pCi/L	09/24/19 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

QC Batch: 359960

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622503001, 2622503002, 2622503003, 2622503004, 2622503008, 2622503009, 2622503010, 2622503015

METHOD BLANK: 1747379

Matrix: Water

Associated Lab Samples: 2622503001, 2622503002, 2622503003, 2622503004, 2622503008, 2622503009, 2622503010, 2622503015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.192 ± 0.159 (0.292) C:91% T:NA	pCi/L	09/16/19 20:09	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

QC Batch: 359964

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622503005, 2622503006, 2622503007, 2622503011, 2622503012, 2622503013, 2622503014

METHOD BLANK: 1747386

Matrix: Water

Associated Lab Samples: 2622503005, 2622503006, 2622503007, 2622503011, 2622503012, 2622503013, 2622503014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.204 ± 0.233 (0.472) C:94% T:NA	pCi/L	09/18/19 08:31	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

QC Batch: 359966

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622503005, 2622503006, 2622503007, 2622503011, 2622503012, 2622503013, 2622503014

METHOD BLANK: 1747390

Matrix: Water

Associated Lab Samples: 2622503005, 2622503006, 2622503007, 2622503011, 2622503012, 2622503013, 2622503014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.232 ± 0.311 (0.664) C:77% T:89%	pCi/L	09/20/19 11:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

QC Batch: 359961 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622503001, 2622503002, 2622503003, 2622503004, 2622503008, 2622503009, 2622503010, 2622503015

METHOD BLANK: 1747380 Matrix: Water

Associated Lab Samples: 2622503001, 2622503002, 2622503003, 2622503004, 2622503008, 2622503009, 2622503010, 2622503015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.232 ± 0.345 (0.742) C:77% T:84%	pCi/L	09/19/19 14:40	

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QUALIFIERS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622503001	GWA-7	EPA 9315	359960		
2622503002	GWC-15	EPA 9315	359960		
2622503003	GWC-14	EPA 9315	359960		
2622503004	GWC-2	EPA 9315	359960		
2622503005	GWC-13	EPA 9315	359964		
2622503006	GWB-6R	EPA 9315	359964		
2622503007	GWB-4R	EPA 9315	359964		
2622503008	GWA-8	EPA 9315	359960		
2622503009	FB-1-8-27-19	EPA 9315	359960		
2622503010	GWC-12	EPA 9315	359960		
2622503011	GWC-11	EPA 9315	359964		
2622503012	GWC-22	EPA 9315	359964		
2622503013	EB-1-8-27-19	EPA 9315	359964		
2622503014	GWC-1	EPA 9315	359964		
2622503015	Dup-1	EPA 9315	359960		
2622503001	GWA-7	EPA 9320	359961		
2622503002	GWC-15	EPA 9320	359961		
2622503003	GWC-14	EPA 9320	359961		
2622503004	GWC-2	EPA 9320	359961		
2622503005	GWC-13	EPA 9320	359966		
2622503006	GWB-6R	EPA 9320	359966		
2622503007	GWB-4R	EPA 9320	359966		
2622503008	GWA-8	EPA 9320	359961		
2622503009	FB-1-8-27-19	EPA 9320	359961		
2622503010	GWC-12	EPA 9320	359961		
2622503011	GWC-11	EPA 9320	359966		
2622503012	GWC-22	EPA 9320	359966		
2622503013	EB-1-8-27-19	EPA 9320	359966		
2622503014	GWC-1	EPA 9320	359966		
2622503015	Dup-1	EPA 9320	359961		
2622503001	GWA-7	Total Radium Calculation	362865		
2622503002	GWC-15	Total Radium Calculation	362865		
2622503003	GWC-14	Total Radium Calculation	362865		
2622503004	GWC-2	Total Radium Calculation	362865		
2622503005	GWC-13	Total Radium Calculation	362632		
2622503006	GWB-6R	Total Radium Calculation	362632		
2622503007	GWB-4R	Total Radium Calculation	362632		
2622503008	GWA-8	Total Radium Calculation	362865		
2622503009	FB-1-8-27-19	Total Radium Calculation	362865		
2622503010	GWC-12	Total Radium Calculation	362865		
2622503011	GWC-11	Total Radium Calculation	362632		
2622503012	GWC-22	Total Radium Calculation	362632		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622503013	EB-1-8-27-19	Total Radium Calculation	362632		
2622503014	GWC-1	Total Radium Calculation	362632		
2622503015	Dup-1	Total Radium Calculation	362865		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 2

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30306 404-506-7239		ANALYSIS REQUESTED P P P P 3 7 3		CONTAINER TYPE: PRESERVATION: # of		CONTAINER TYPE P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER		PRESERVATION 1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen	
REPORT TO: CC: <i>EXPEDIENTIAL</i>		REQUESTED COMPLETION DATE: PO #:		CONTAINER TYPE: PRESERVATION: # of		CONTAINER TYPE P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER		PRESERVATION 1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen	
PROJECT NAME/STATE: Plant Kraft Grumman Road		PROJECT #: 2019 AIV Scan Event		CONTAINER TYPE: PRESERVATION: # of		CONTAINER TYPE P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER		PRESERVATION 1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen	
Collection DATE		Collection TIME		MATRIX CODE*		GRA B		SAMPLE IDENTIFICATION	
8-27-19		1015		GW		X		GWA-7	
8-27-19		1115		GW		X		GWC-15	
8-27-19		1020		GW		X		GWC-14	
8-27-19		1115		GW		X		GWC-Z	
8-27-19		1230		GW		X		GWC-13	
8-27-19		1415		GW		X		GWB-6R	
8-27-19		1715		GW		X		GWB-4R	
8-27-19		1715		GW		X		DUP-1	
SAMPLED BY AND TITLE: O. FOUQUA (GTE)		DATE/TIME: 8-27-19 1715		RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 0330		LAB #: FOR LAB USE ONLY	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 0830		RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 8-28-19 0330		Entered Into LIMS: Tracking #:	
RECEIVED BY LAB: Grumman		DATE/TIME: 8/28/19 1545		SAMPLE SHIPPED VIA: UPS - FED-EX - USPS - COURIER - OTHER - FS		CLIENT: Grumman		COOLER ID: Not Present	
Temperature: Mfr: 4.0 Max:		Temperature: Mfr: 4.0 Max:		Temperature: Mfr: 4.0 Max:		Temperature: Mfr: 4.0 Max:		Temperature: Mfr: 4.0 Max:	

WO#: 2622503



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

WO#: **2622503**

Tracking #: _____

PM: **BM** Due Date: **09/26/19**

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

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 23

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 4'0

Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 8/28/19 ml

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	<u>Dup-1 was not listed on the COC.</u>
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Dup-1 was added to the report.

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622578

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622578

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622578

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622578001	GWB-5R	Water	08/28/19 15:50	08/29/19 11:52

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622578

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2622578001	GWB-5R	EPA 6020B	CSW	10

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622578

Sample: GWB-5R		Lab ID: 2622578001		Collected: 08/28/19 15:50	Received: 08/29/19 11:52	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony, Dissolved	ND	mg/L	0.0030	0.00027	1	09/03/19 13:22	09/04/19 11:50	7440-36-0		
Arsenic, Dissolved	0.0022J	mg/L	0.0050	0.00035	1	09/03/19 13:22	09/04/19 11:50	7440-38-2		
Barium, Dissolved	0.098	mg/L	0.010	0.00049	1	09/03/19 13:22	09/04/19 11:50	7440-39-3		
Boron, Dissolved	5.6	mg/L	0.040	0.0049	1	09/03/19 13:22	09/04/19 11:50	7440-42-8	M1	
Calcium, Dissolved	26.0	mg/L	5.0	0.55	50	09/03/19 13:22	09/04/19 11:56	7440-70-2	M6	
Chromium, Dissolved	0.0062J	mg/L	0.010	0.00039	1	09/03/19 13:22	09/04/19 11:50	7440-47-3		
Lead, Dissolved	0.00014J	mg/L	0.0050	0.000046	1	09/03/19 13:22	09/04/19 11:50	7439-92-1		
Selenium, Dissolved	0.0018J	mg/L	0.010	0.0013	1	09/03/19 13:22	09/04/19 11:50	7782-49-2		
Vanadium, Dissolved	0.028	mg/L	0.010	0.00071	1	09/03/19 13:22	09/04/19 11:50	7440-62-2		
Zinc, Dissolved	0.0019J	mg/L	0.010	0.0015	1	09/03/19 13:22	09/04/19 11:50	7440-66-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622578

QC Batch: 34656 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET Dissolved
Associated Lab Samples: 2622578001

METHOD BLANK: 156009 Matrix: Water
Associated Lab Samples: 2622578001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00027	09/04/19 11:39	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00035	09/04/19 11:39	
Barium, Dissolved	mg/L	ND	0.010	0.00049	09/04/19 11:39	
Boron, Dissolved	mg/L	ND	0.040	0.0049	09/04/19 11:39	
Calcium, Dissolved	mg/L	ND	0.10	0.011	09/04/19 11:39	
Chromium, Dissolved	mg/L	ND	0.010	0.00039	09/04/19 11:39	
Lead, Dissolved	mg/L	ND	0.0050	0.000046	09/04/19 11:39	
Selenium, Dissolved	mg/L	ND	0.010	0.0013	09/04/19 11:39	
Vanadium, Dissolved	mg/L	ND	0.010	0.00071	09/04/19 11:39	
Zinc, Dissolved	mg/L	ND	0.010	0.0015	09/04/19 11:39	

LABORATORY CONTROL SAMPLE: 156010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.12	118	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	103	80-120	
Barium, Dissolved	mg/L	0.1	0.11	105	80-120	
Boron, Dissolved	mg/L	1	1.1	105	80-120	
Calcium, Dissolved	mg/L	1	1.1	106	80-120	
Chromium, Dissolved	mg/L	0.1	0.11	105	80-120	
Lead, Dissolved	mg/L	0.1	0.10	102	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	105	80-120	
Vanadium, Dissolved	mg/L	0.1	0.10	104	80-120	
Zinc, Dissolved	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156011 156012

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2622578001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.12	0.12	116	115	75-125	0	20	
Arsenic, Dissolved	mg/L	0.0022J	0.1	0.1	0.10	0.11	102	105	75-125	2	20	
Barium, Dissolved	mg/L	0.098	0.1	0.1	0.20	0.20	103	103	75-125	0	20	
Boron, Dissolved	mg/L	5.6	1	1	6.7	6.9	107	129	75-125	3	20	M1
Calcium, Dissolved	mg/L	26.0	1	1	26.0	27.6	6	158	75-125	6	20	M6
Chromium, Dissolved	mg/L	0.0062J	0.1	0.1	0.11	0.11	103	105	75-125	1	20	
Lead, Dissolved	mg/L	0.00014J	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Selenium, Dissolved	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	106	75-125	4	20	
Vanadium, Dissolved	mg/L	0.028	0.1	0.1	0.14	0.14	107	108	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622578

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156011												156012	
Parameter	Units	2622578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Zinc, Dissolved	mg/L	0.0019J	0.1	0.1	0.10	0.10	100	102	75-125	2	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622578

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622578

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622578001	GWB-5R	EPA 3005A	34656	EPA 6020B	34674

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 7

CLIENT NAME: Georgia Power			ANALYSIS REQUESTED									
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239			CONTAINER TYPE: P 3 P 3 P 7									
REPORT TO:			CONTAINER TYPE: P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER									
REQUESTED COMPLETION DATE:			PRESERVATION 1 - HCl, 56°C 2 - H2SO4, 56°C 3 - HNO3 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na2S2O3, 56°C 7 - 56°C not frozen									
PROJECT NAME/STATE: Plant Kraft Grumman Road			MATRIX CODES: DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLID SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT									
PROJECT #:			REMARKS/ADDITIONAL INFORMATION									
Collection DATE			Collection TIME			MATRIX CODE*			SAMPLE IDENTIFICATION			
8-28-19			1550			GW			X GWB-5R			
CONTAINERS												
RELINQUISHED BY:			RELINQUISHED BY:			DATE/TIME:			DATE/TIME:			
8-28-19 1550			8-29-19 1152			1550			1152			
RECEIVED BY:			RECEIVED BY:			TEMPERATURE:			TEMPERATURE:			
[Signature]			[Signature]			0-48			1152			
LAB #:			LAB #:			ENTERED INTO LIMS:			TRACKING #:			
2622578			2622578			[Signature]			[Signature]			
WORLDWIDE TRACKING			FOR LAB USE ONLY									
WORLDWIDE TRACKING			FOR LAB USE ONLY									



Sample Condition Upon Receipt

Client Name: GAPower Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

WO#: **2622578**

Tracking #: _____

PM: BM Due Date: 09/06/19

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

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.4

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 8/29/19 MK

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/10/2019. The report has been revised to correct the project-required RLs per consultant request. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622579001	Dup-2	Water	08/28/19 00:00	08/29/19 11:52
2622579002	GWC-16	Water	08/28/19 09:39	08/29/19 11:52
2622579003	GWC-21	Water	08/28/19 11:00	08/29/19 11:52
2622579004	GWC-20	Water	08/28/19 12:10	08/29/19 11:52
2622579005	FB-2-8-28-19	Water	08/28/19 10:00	08/29/19 11:52
2622579006	GWC-17	Water	08/28/19 12:00	08/29/19 11:52
2622579007	EB-2-8-28-19	Water	08/28/19 12:40	08/29/19 11:52
2622579008	GWC-9	Water	08/28/19 12:50	08/29/19 11:52
2622579009	GWB-5R	Water	08/28/19 15:50	08/29/19 11:52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622579001	Dup-2	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579002	GWC-16	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579003	GWC-21	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579004	GWC-20	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579005	FB-2-8-28-19	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579006	GWC-17	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579007	EB-2-8-28-19	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579008	GWC-9	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
2622579009	GWB-5R	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

Sample: Dup-2		Lab ID: 2622579001		Collected: 08/28/19 00:00		Received: 08/29/19 11:52		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 23:26	7440-36-0	
Arsenic	0.089	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 23:26	7440-38-2	
Barium	0.087	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 23:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 23:26	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 23:26	7440-43-9	
Chromium	0.0045J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 23:26	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 23:26	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 23:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 23:26	7439-93-2	
Molybdenum	0.21	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 23:26	7439-98-7	
Selenium	0.0032J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 23:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 23:26	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:37	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 01:45	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: GWC-16		Lab ID: 2622579002		Collected: 08/28/19 09:39		Received: 08/29/19 11:52		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 23:43	7440-36-0	
Arsenic	0.091	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 23:43	7440-38-2	
Barium	0.090	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 23:43	7440-39-3	
Beryllium	0.000080J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 23:43	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 23:43	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 23:43	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 23:43	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 23:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 23:43	7439-93-2	
Molybdenum	0.22	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 23:43	7439-98-7	
Selenium	0.0040J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 23:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 23:43	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:44	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 02:32	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: GWC-21		Lab ID: 2622579003		Collected: 08/28/19 11:00		Received: 08/29/19 11:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 23:49	7440-36-0		
Arsenic	0.0020J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 23:49	7440-38-2		
Barium	0.063	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 23:49	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 23:49	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 23:49	7440-43-9		
Chromium	0.00087J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 23:49	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 23:49	7440-48-4		
Lead	0.00018J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 23:49	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 23:49	7439-93-2		
Molybdenum	0.070	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 23:49	7439-98-7		
Selenium	0.019	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 23:49	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 23:49	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:46	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 02:47	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: GWC-20		Lab ID: 2622579004		Collected: 08/28/19 12:10	Received: 08/29/19 11:52	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/04/19 23:55	7440-36-0		
Arsenic	0.43	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/04/19 23:55	7440-38-2		
Barium	0.078	mg/L	0.010	0.00049	1	08/30/19 16:08	09/04/19 23:55	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/04/19 23:55	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/04/19 23:55	7440-43-9		
Chromium	0.00089J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/04/19 23:55	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/04/19 23:55	7440-48-4		
Lead	0.00065J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/04/19 23:55	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/04/19 23:55	7439-93-2		
Molybdenum	0.11	mg/L	0.010	0.00095	1	08/30/19 16:08	09/04/19 23:55	7439-98-7		
Selenium	0.0014J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/04/19 23:55	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/04/19 23:55	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:48	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 03:03	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: FB-2-8-28-19		Lab ID: 2622579005		Collected: 08/28/19 10:00		Received: 08/29/19 11:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/05/19 00:00	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/05/19 00:00	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	08/30/19 16:08	09/05/19 00:00	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/05/19 00:00	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/05/19 00:00	7440-43-9		
Chromium	0.00041J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/05/19 00:00	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/05/19 00:00	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/05/19 00:00	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/05/19 00:00	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/05/19 00:00	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/05/19 00:00	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/05/19 00:00	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:51	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 03:18	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: GWC-17		Lab ID: 2622579006		Collected: 08/28/19 12:00		Received: 08/29/19 11:52		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/05/19 00:06	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/05/19 00:06	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	08/30/19 16:08	09/05/19 00:06	7440-39-3	
Beryllium	0.0017J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/05/19 00:06	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/05/19 00:06	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/05/19 00:06	7440-47-3	B
Cobalt	0.0023J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/05/19 00:06	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/05/19 00:06	7439-92-1	
Lithium	0.0041J	mg/L	0.030	0.00078	1	08/30/19 16:08	09/05/19 00:06	7439-93-2	
Molybdenum	0.0040J	mg/L	0.010	0.00095	1	08/30/19 16:08	09/05/19 00:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/05/19 00:06	7782-49-2	
Thallium	0.000066J	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/05/19 00:06	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:53	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	0.61	mg/L	0.10	0.050	1		09/08/19 03:34	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: EB-2-8-28-19		Lab ID: 2622579007		Collected: 08/28/19 12:40		Received: 08/29/19 11:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/05/19 17:47	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/05/19 17:47	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	08/30/19 16:08	09/05/19 17:47	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/05/19 17:47	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/05/19 17:47	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/30/19 16:08	09/05/19 17:47	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/05/19 17:47	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/05/19 17:47	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/05/19 17:47	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/05/19 17:47	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/05/19 17:47	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/05/19 17:47	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:56	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.10	0.050	1		09/08/19 03:49	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Sample: GWC-9		Lab ID: 2622579008		Collected: 08/28/19 12:50		Received: 08/29/19 11:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/05/19 17:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/05/19 17:53	7440-38-2		
Barium	0.17	mg/L	0.010	0.00049	1	08/30/19 16:08	09/05/19 17:53	7440-39-3		
Beryllium	0.00022J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/05/19 17:53	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/05/19 17:53	7440-43-9		
Chromium	0.00089J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/05/19 17:53	7440-47-3		
Cobalt	0.00099J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/05/19 17:53	7440-48-4		
Lead	0.000061J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/05/19 17:53	7439-92-1		
Lithium	0.0018J	mg/L	0.030	0.00078	1	08/30/19 16:08	09/05/19 17:53	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/30/19 16:08	09/05/19 17:53	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/30/19 16:08	09/05/19 17:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/05/19 17:53	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 13:58	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.088J	mg/L	0.10	0.050	1		09/08/19 04:51	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

Sample: GWB-5R		Lab ID: 2622579009		Collected: 08/28/19 15:50		Received: 08/29/19 11:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00054J	mg/L	0.0030	0.00027	1	08/30/19 16:08	09/05/19 18:45	7440-36-0		
Arsenic	0.0023J	mg/L	0.0050	0.00035	1	08/30/19 16:08	09/05/19 18:45	7440-38-2		
Barium	0.10	mg/L	0.010	0.00049	1	08/30/19 16:08	09/05/19 18:45	7440-39-3		
Beryllium	0.000076J	mg/L	0.0030	0.000074	1	08/30/19 16:08	09/05/19 18:45	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/30/19 16:08	09/05/19 18:45	7440-43-9		
Chromium	0.0071J	mg/L	0.010	0.00039	1	08/30/19 16:08	09/05/19 18:45	7440-47-3		
Cobalt	0.0024J	mg/L	0.0050	0.00030	1	08/30/19 16:08	09/05/19 18:45	7440-48-4		
Lead	0.0011J	mg/L	0.0050	0.000046	1	08/30/19 16:08	09/05/19 18:45	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	08/30/19 16:08	09/05/19 18:45	7439-93-2		
Molybdenum	0.0012J	mg/L	0.010	0.00095	1	08/30/19 16:08	09/05/19 18:45	7439-98-7		
Selenium	0.0033J	mg/L	0.010	0.0013	1	08/30/19 16:08	09/05/19 18:45	7782-49-2		
Thallium	0.000057J	mg/L	0.0010	0.000052	1	08/30/19 16:08	09/05/19 18:45	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	09/04/19 09:14	09/04/19 14:00	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.097J	mg/L	0.10	0.050	1		09/08/19 05:07	16984-48-8		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

QC Batch: 34690 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006, 2622579007, 2622579008, 2622579009

METHOD BLANK: 156136 Matrix: Water
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006, 2622579007, 2622579008, 2622579009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	09/04/19 13:04	

LABORATORY CONTROL SAMPLE: 156137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 156138 156139

Parameter	Units	2622572006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	96	99	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

QC Batch: 34570 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006

METHOD BLANK: 155680 Matrix: Water
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/04/19 21:26	
Arsenic	mg/L	ND	0.0050	0.00035	09/04/19 21:26	
Barium	mg/L	ND	0.010	0.00049	09/04/19 21:26	
Beryllium	mg/L	ND	0.0030	0.000074	09/04/19 21:26	
Cadmium	mg/L	ND	0.0025	0.00011	09/04/19 21:26	
Chromium	mg/L	0.00055J	0.010	0.00039	09/04/19 21:26	
Cobalt	mg/L	ND	0.0050	0.00030	09/04/19 21:26	
Lead	mg/L	ND	0.0050	0.000046	09/04/19 21:26	
Lithium	mg/L	ND	0.030	0.00078	09/04/19 21:26	
Molybdenum	mg/L	ND	0.010	0.00095	09/04/19 21:26	
Selenium	mg/L	ND	0.010	0.0013	09/04/19 21:26	
Thallium	mg/L	ND	0.0010	0.000052	09/04/19 21:26	

LABORATORY CONTROL SAMPLE: 155681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	113	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155682 155683

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2622563003 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	114	114	75-125	0	20	
Arsenic	mg/L	0.00044J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.039	0.1	0.1	0.14	0.14	103	104	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155682		155683		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2622563003 Result	MS Spike Conc.	MSD Spike Conc.									
Chromium	mg/L	0.0071J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	1	20		
Lithium	mg/L	0.0021J	0.1	0.1	0.10	0.098	98	96	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	108	107	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

QC Batch: 34572 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622579007, 2622579008, 2622579009

METHOD BLANK: 155685 Matrix: Water
Associated Lab Samples: 2622579007, 2622579008, 2622579009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	09/05/19 17:36	
Arsenic	mg/L	ND	0.0050	0.00035	09/05/19 17:36	
Barium	mg/L	ND	0.010	0.00049	09/05/19 17:36	
Beryllium	mg/L	ND	0.0030	0.000074	09/05/19 17:36	
Cadmium	mg/L	ND	0.0025	0.00011	09/05/19 17:36	
Chromium	mg/L	ND	0.010	0.00039	09/05/19 17:36	
Cobalt	mg/L	ND	0.0050	0.00030	09/05/19 17:36	
Lead	mg/L	ND	0.0050	0.000046	09/05/19 17:36	
Lithium	mg/L	ND	0.030	0.00078	09/05/19 17:36	
Molybdenum	mg/L	ND	0.010	0.00095	09/05/19 17:36	
Selenium	mg/L	ND	0.010	0.0013	09/05/19 17:36	
Thallium	mg/L	ND	0.0010	0.000052	09/05/19 17:36	

LABORATORY CONTROL SAMPLE: 155686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155687 155688

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2622579008 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Barium	mg/L	0.17	0.1	0.1	0.25	0.27	84	96	75-125	4	20	
Beryllium	mg/L	0.00022J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155687		155688		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2622579008 Result	MS Spike Conc.	MSD Spike Conc.									
Chromium	mg/L	0.00089J	0.1	0.1	0.096	0.099	95	98	75-125	2	20		
Cobalt	mg/L	0.00099J	0.1	0.1	0.096	0.097	95	96	75-125	1	20		
Lead	mg/L	0.000061J	0.1	0.1	0.096	0.098	96	98	75-125	2	20		
Lithium	mg/L	0.0018J	0.1	0.1	0.097	0.098	95	96	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.098	95	98	75-125	3	20		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

QC Batch: 496583 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006, 2622579007, 2622579008, 2622579009

METHOD BLANK: 2674483 Matrix: Water
Associated Lab Samples: 2622579001, 2622579002, 2622579003, 2622579004, 2622579005, 2622579006, 2622579007, 2622579008, 2622579009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	09/07/19 20:35	

LABORATORY CONTROL SAMPLE: 2674484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674485 2674486

Parameter	Units	92443935013 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	99	102	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674487 2674488

Parameter	Units	2622579001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	96	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622579

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622579

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622579001	Dup-2	EPA 3005A	34570	EPA 6020B	34601
2622579002	GWC-16	EPA 3005A	34570	EPA 6020B	34601
2622579003	GWC-21	EPA 3005A	34570	EPA 6020B	34601
2622579004	GWC-20	EPA 3005A	34570	EPA 6020B	34601
2622579005	FB-2-8-28-19	EPA 3005A	34570	EPA 6020B	34601
2622579006	GWC-17	EPA 3005A	34570	EPA 6020B	34601
2622579007	EB-2-8-28-19	EPA 3005A	34572	EPA 6020B	34602
2622579008	GWC-9	EPA 3005A	34572	EPA 6020B	34602
2622579009	GWB-5R	EPA 3005A	34572	EPA 6020B	34602
2622579001	Dup-2	EPA 7470A	34690	EPA 7470A	34713
2622579002	GWC-16	EPA 7470A	34690	EPA 7470A	34713
2622579003	GWC-21	EPA 7470A	34690	EPA 7470A	34713
2622579004	GWC-20	EPA 7470A	34690	EPA 7470A	34713
2622579005	FB-2-8-28-19	EPA 7470A	34690	EPA 7470A	34713
2622579006	GWC-17	EPA 7470A	34690	EPA 7470A	34713
2622579007	EB-2-8-28-19	EPA 7470A	34690	EPA 7470A	34713
2622579008	GWC-9	EPA 7470A	34690	EPA 7470A	34713
2622579009	GWB-5R	EPA 7470A	34690	EPA 7470A	34713
2622579001	Dup-2	EPA 300.0 Rev 2.1 1993	496583		
2622579002	GWC-16	EPA 300.0 Rev 2.1 1993	496583		
2622579003	GWC-21	EPA 300.0 Rev 2.1 1993	496583		
2622579004	GWC-20	EPA 300.0 Rev 2.1 1993	496583		
2622579005	FB-2-8-28-19	EPA 300.0 Rev 2.1 1993	496583		
2622579006	GWC-17	EPA 300.0 Rev 2.1 1993	496583		
2622579007	EB-2-8-28-19	EPA 300.0 Rev 2.1 1993	496583		
2622579008	GWC-9	EPA 300.0 Rev 2.1 1993	496583		
2622579009	GWB-5R	EPA 300.0 Rev 2.1 1993	496583		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239

REPORT TO:

REQUESTED COMPLETION DATE: PO #:

PROJECT NAME/STATE: Plant Kraft Grumman Road

PROJECT #: 2019 AIV Scan Event

CONTAINER TYPE	ANALYSIS REQUESTED				REMARKS/ADDITIONAL INFORMATION
	P	P	P	P	
3	7	3			
CONTAINERS →					
4	Metals App. IV (EPA 6020/7470)	Flouride	Radium 226 & 228 (SW-846 9315/9320)		
4					
4					
4					

L A B I D N U M B E R →

CONTAINER TYPE: P - PLASTIC, A - AMBER GLASS, G - CLEAR GLASS, V - VOA VIAL, S - STERILE, O - OTHER

PRESERVATION: 1 - HCl, ≤6°C, 2 - H₂SO₄, ≤6°C, 3 - HNO₃, 4 - NaOH, ≤6°C, 5 - NaOH/ZnAc, ≤6°C, 6 - Na₂S₂O₃, ≤6°C, 7 - ≤6°C not frozen

*MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: App IV only

LAB #: 2622579

DATE/TIME: 8-28-19 1210

DATE/TIME: 8-29-19 1152

WO#: 2622579



SAMPLED BY AND TITLE: J. Berstorf (EG)

RECEIVED BY: [Signature]

RECEIVED BY LAB: [Signature]

PH-checkout: Yes/No

TEMPERATURE: 04°C

DATE/TIME: 8/29/19 1152

RELINQUISHED BY: [Signature]

RELINQUISHED BY DATE/TIME: 8-29-19 1152

SAMPLE SHIPPED VIA: UPS

COULIER: CLIENT

OTHER: FS

COOLERS: # of Coolers

COOLER ID:

FOR LAB USE ONLY

LAB #:

ENTERED INTO LIMS: Tracking #:

Copy of Plant Kraft -Grumman Rd COC - 2019 AIV SCAN EVENT .xlsx



Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power		CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		REPORT TO:	CC:	REQUESTED COMPLETION DATE:	PO #:	PROJECT NAME/STATE: Plant Kraft Grumman Road	PROJECT #: 2019 AIV Scan Event
Collection DATE	Collection TIME	MATRIX CODE*	CGRAMP	SAMPLE IDENTIFICATION	CONTAINER TYPE: PRESERVATION: # of	ANALYSIS REQUESTED P P P P P P P P P P	CONTAINER TYPE PRESERVATION	L A B I D N U M B E R	REMARKS/ADDITIONAL INFORMATION
8-28-19	1000	W	X	FB-2-8-28-19	Metals App. IV (EPA 6020/7470)	Flouride	Radium 226 & 228 (SW-846 9315/9320)		
8-28-19	1200	GW	X	6WC-17					
8-28-19	1240	W	X	FB-2-8-28-19					
8-28-19	1250	GW	X	6WC-9					
8-28-19	1550	GW	X	6WB-5R					
<p>SAMPLED BY AND TITLE: <u>Boris Ford (FG)</u> DATE/TIME: <u>8-28-19 1550</u></p> <p>RECEIVED BY: _____ DATE/TIME: _____</p> <p>RELINQUISHED BY: _____ DATE/TIME: <u>8-29-19 1152</u></p> <p>RELINQUISHED BY: _____ DATE/TIME: _____</p> <p>SAMPLE SHIPPED VIA: <u>UPS</u> FED-EX <u>USPS</u> COURIER <u>CLIENT</u> OTHER <u>FS</u></p> <p>Customer Seat: <u>Intact</u> Broken <u>None</u> N/A Present</p> <p>Temp: _____ Min: _____ Max: _____</p> <p>Lab: <u>94</u> No: <u>NA</u> Yes: <u>NA</u> No: <u>NA</u></p> <p>Entered into LIMS: _____ Tracking #: _____</p> <p>LAB #: _____ FOR LAB USE ONLY</p>									

WO#: 2622579

PM: BM Due Date: 09/06/19
CLIENT: GAPower-CCR



Sample Condition Upon Receipt

Client Name: GAPower

Project # _____

WO#: **2622579**

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

PM: BM Due Date: 09/06/19

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

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.4

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/29/19 ml

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

September 24, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

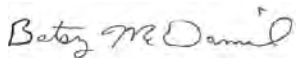
RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2622581

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622581001	Dup-2	Water	08/28/19 00:00	08/29/19 11:52
2622581002	GWC-16	Water	08/28/19 09:39	08/29/19 11:52
2622581003	GWC-21	Water	08/28/19 11:00	08/29/19 11:52
2622581004	GWC-20	Water	08/28/19 12:10	08/29/19 11:52
2622581005	FB-2-8-28-19	Water	08/28/19 10:00	08/29/19 11:52
2622581006	GWC-17	Water	08/28/19 12:00	08/29/19 11:52
2622581007	EB-2-8-28-19	Water	08/28/19 12:40	08/29/19 11:52
2622581008	GWC-9	Water	08/28/19 12:50	08/29/19 11:52
2622581009	GWB-5R	Water	08/28/19 15:50	08/29/19 11:52

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2622581

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622581001	Dup-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581002	GWC-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581003	GWC-21	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581004	GWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581005	FB-2-8-28-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581006	GWC-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581007	EB-2-8-28-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581008	GWC-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622581009	GWB-5R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.19 ± 0.442 (0.480) C:96% T:NA	pCi/L	09/13/19 08:10	13982-63-3	
Radium-228	EPA 9320	1.15 ± 0.521 (0.870) C:65% T:81%	pCi/L	09/19/19 15:19	15262-20-1	
Total Radium	Total Radium Calculation	2.34 ± 0.963 (1.35)	pCi/L	09/23/19 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWC-16 **Lab ID: 2622581002** Collected: 08/28/19 09:39 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.10 ± 0.433 (0.486) C:90% T:NA	pCi/L	09/13/19 08:10	13982-63-3	
Radium-228	EPA 9320	0.944 ± 0.455 (0.771) C:71% T:79%	pCi/L	09/19/19 15:19	15262-20-1	
Total Radium	Total Radium Calculation	2.04 ± 0.888 (1.26)	pCi/L	09/23/19 11:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWC-21 **Lab ID: 2622581003** Collected: 08/28/19 11:00 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.693 ± 0.462 (0.663) C:30% T:NA	pCi/L	09/13/19 09:44	13982-63-3	
Radium-228	EPA 9320	0.702 ± 0.421 (0.782) C:79% T:83%	pCi/L	09/19/19 11:32	15262-20-1	
Total Radium	Total Radium Calculation	1.40 ± 0.883 (1.45)	pCi/L	09/24/19 10:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWC-20 **Lab ID: 2622581004** Collected: 08/28/19 12:10 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.940 ± 0.460 (0.563) C:60% T:NA	pCi/L	09/13/19 11:01	13982-63-3	
Radium-228	EPA 9320	0.193 ± 0.344 (0.753) C:80% T:93%	pCi/L	09/19/19 11:33	15262-20-1	
Total Radium	Total Radium Calculation	1.13 ± 0.804 (1.32)	pCi/L	09/24/19 10:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.180 ± 0.285 (0.635) C:88% T:NA	pCi/L	09/13/19 08:10	13982-63-3	
Radium-228	EPA 9320	0.726 ± 0.503 (0.956) C:67% T:72%	pCi/L	09/19/19 16:56	15262-20-1	
Total Radium	Total Radium Calculation	0.906 ± 0.788 (1.59)	pCi/L	09/23/19 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWC-17 **Lab ID: 2622581006** Collected: 08/28/19 12:00 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.29 ± 0.492 (0.511) C:72% T:NA	pCi/L	09/13/19 11:01	13982-63-3	
Radium-228	EPA 9320	0.718 ± 0.436 (0.817) C:77% T:86%	pCi/L	09/19/19 11:33	15262-20-1	
Total Radium	Total Radium Calculation	2.01 ± 0.928 (1.33)	pCi/L	09/24/19 10:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: EB-2-8-28-19 **Lab ID: 2622581007** Collected: 08/28/19 12:40 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.210 ± 0.208 (0.376) C:80% T:NA	pCi/L	09/13/19 11:01	13982-63-3	
Radium-228	EPA 9320	0.169 ± 0.403 (0.898) C:73% T:82%	pCi/L	09/19/19 11:33	15262-20-1	
Total Radium	Total Radium Calculation	0.379 ± 0.611 (1.27)	pCi/L	09/24/19 10:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWC-9 **Lab ID: 2622581008** Collected: 08/28/19 12:50 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.06 ± 0.449 (0.481) C:68% T:NA	pCi/L	09/13/19 11:01	13982-63-3	
Radium-228	EPA 9320	0.848 ± 0.485 (0.892) C:75% T:80%	pCi/L	09/19/19 11:33	15262-20-1	
Total Radium	Total Radium Calculation	1.91 ± 0.934 (1.37)	pCi/L	09/24/19 10:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Sample: GWB-5R **Lab ID: 2622581009** Collected: 08/28/19 15:50 Received: 08/29/19 11:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.60 ± 0.533 (0.175) C:78% T:NA	pCi/L	09/23/19 08:23	13982-63-3	
Radium-228	EPA 9320	1.14 ± 0.531 (0.911) C:70% T:87%	pCi/L	09/19/19 11:33	15262-20-1	
Total Radium	Total Radium Calculation	3.74 ± 1.06 (1.09)	pCi/L	09/24/19 10:28	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

QC Batch: 359959 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622581003, 2622581004, 2622581006, 2622581007, 2622581008, 2622581009

METHOD BLANK: 1747376 Matrix: Water

Associated Lab Samples: 2622581003, 2622581004, 2622581006, 2622581007, 2622581008, 2622581009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0495 ± 0.365 (0.863) C:80% T:75%	pCi/L	09/19/19 11:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

QC Batch: 359955

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622581001, 2622581002, 2622581005

METHOD BLANK: 1747367

Matrix: Water

Associated Lab Samples: 2622581001, 2622581002, 2622581005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.428 ± 0.255 (0.325) C:92% T:NA	pCi/L	09/13/19 09:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

QC Batch: 359957

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622581001, 2622581002, 2622581005

METHOD BLANK: 1747374

Matrix: Water

Associated Lab Samples: 2622581001, 2622581002, 2622581005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.461 ± 0.411 (0.833) C:71% T:76%	pCi/L	09/19/19 12:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

QC Batch: 359958

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622581003, 2622581004, 2622581006, 2622581007, 2622581008, 2622581009

METHOD BLANK: 1747375

Matrix: Water

Associated Lab Samples: 2622581003, 2622581004, 2622581006, 2622581007, 2622581008, 2622581009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.446 ± 0.266 (0.338) C:85% T:NA	pCi/L	09/13/19 11:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road

Pace Project No.: 2622581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622581001	Dup-2	EPA 9315	359955		
2622581002	GWC-16	EPA 9315	359955		
2622581003	GWC-21	EPA 9315	359958		
2622581004	GWC-20	EPA 9315	359958		
2622581005	FB-2-8-28-19	EPA 9315	359955		
2622581006	GWC-17	EPA 9315	359958		
2622581007	EB-2-8-28-19	EPA 9315	359958		
2622581008	GWC-9	EPA 9315	359958		
2622581009	GWB-5R	EPA 9315	359958		
2622581001	Dup-2	EPA 9320	359957		
2622581002	GWC-16	EPA 9320	359957		
2622581003	GWC-21	EPA 9320	359959		
2622581004	GWC-20	EPA 9320	359959		
2622581005	FB-2-8-28-19	EPA 9320	359957		
2622581006	GWC-17	EPA 9320	359959		
2622581007	EB-2-8-28-19	EPA 9320	359959		
2622581008	GWC-9	EPA 9320	359959		
2622581009	GWB-5R	EPA 9320	359959		
2622581001	Dup-2	Total Radium Calculation	362617		
2622581002	GWC-16	Total Radium Calculation	362617		
2622581003	GWC-21	Total Radium Calculation	362814		
2622581004	GWC-20	Total Radium Calculation	362814		
2622581005	FB-2-8-28-19	Total Radium Calculation	362617		
2622581006	GWC-17	Total Radium Calculation	362814		
2622581007	EB-2-8-28-19	Total Radium Calculation	362814		
2622581008	GWC-9	Total Radium Calculation	362814		
2622581009	GWB-5R	Total Radium Calculation	362814		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 2

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-505-7239 REPORT TO: REQUESTED COMPLETION DATE: PROJECT NAME/STATE: Plant Kraft Grumman Road PROJECT #: 2019 AIV Scan Event		CONTAINER TYPE: P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER PRESERVATION: 1 - HCl, 56°C 2 - H ₂ SO ₄ , 56°C 3 - HNO ₃ 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na ₂ S ₂ O ₃ , 56°C 7 - 56°C not frozen	
ANALYSIS REQUESTED P P P P 3 7 3 # of CONTAINERS → 4 4 4 4		CONTAINER TYPE: P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER PRESERVATION: 1 - HCl, 56°C 2 - H ₂ SO ₄ , 56°C 3 - HNO ₃ 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na ₂ S ₂ O ₃ , 56°C 7 - 56°C not frozen	
CONTAINER TYPE: P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER PRESERVATION: 1 - HCl, 56°C 2 - H ₂ SO ₄ , 56°C 3 - HNO ₃ 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na ₂ S ₂ O ₃ , 56°C 7 - 56°C not frozen		MATRIX CODES: DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLID SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT REMARKS/ADDITIONAL INFORMATION App IV only	
RELINQUISHED BY: DATE/TIME: 8-28-19 1210 RECEIVED BY: DATE/TIME: 8-29-19 1152		RELINQUISHED BY: DATE/TIME: 8-29-19 1152 RECEIVED BY: DATE/TIME: 8-29-19 1152	
RECEIVED BY LAB: No. NA Yes. No. NA Yes. No. NA Temperature: 104°C		FOR LAB USE ONLY LAB #: 2622581 Entered into LIMS: Tracking #:	

WO#: 2622581

Copy of Plant Kraft - Grumman Rd COC - 2019 AIV SCAN EVENT.xlsx



Sample Condition Upon Receipt

Client Name: GA Power Project # _____

WO#: **2622581**

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

PM: BM Due Date: 09/27/19

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

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/29/19 ml

Temp should be above freezing to 6°C

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road

Scan Event

August 2019

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – August 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta, Asheville, and Pittsburgh for groundwater samples collected at Grumman Road between August 26, 2019 and August 28, 2019. 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. SDGs 2622502 and 2622579 were revised by the laboratory to correct the reporting limits (RLs) in accordance with project requirements.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected 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 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, with the exception of Radium-226 on GWC-1 (2622503014) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, with the exception of Chromium on GWC-16 (2622579002) and DUP-2 (2622579001) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met.
- Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. RLs of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- 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 GWC-1 (262250314) was qualified as estimated (J) for Radium-226 as the laboratory relative percent difference (RPD) exceeded QC criteria (65.94% above limit of 25).
- Samples GWC-16 (2622579002) and DUP-2 (2622579001) were qualified as estimated (J) for Chromium as the field RPD exceeded QC criteria (121.4% above limit of 25).
- Certain chromium results in SDG 2622579 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain radium results in SDGs 2622503 and 2622581 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between August 26, 2019 and August 28, 2019 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

TABLE 1

Georgia Power Company – Grumman Road

Sample Summary Table – August 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
22502	GWA-7	8/26/2019	2622502001	GW		X	X		
22503	GWA-7	8/26/2019	2622503001	GW					X
22502	GWC-15	8/27/2019	2622502002	GW		X	X		
22503	GWC-15	8/27/2019	2622503002	GW					X
22502	GWC-14	8/27/2019	2622502003	GW		X	X		
22503	GWC-14	8/27/2019	2622503003	GW					X
22502	GWC-2	8/27/2019	2622502004	GW		X	X		
22503	GWC-2	8/27/2019	2622503004	GW					X
22502	GWC-13	8/27/2019	2622502005	GW		X	X		
22503	GWC-13	8/27/2019	2622503005	GW					X
22502	GWB-6R	8/27/2019	2622502006	GW		X	X		
22503	GWB-6R	8/27/2019	2622503006	GW					X
22502	GWB-4R	8/27/2019	2622502007	GW		X	X		
22503	GWB-4R	8/27/2019	2622503007	GW					X
22502	GWA-8	8/26/2019	2622502008	GW		X	X		
22503	GWA-8	8/26/2019	2622503008	GW					X
22502	FB-1-8-27-19	8/27/2019	2622502009	WQ	FB	X	X		
22503	FB-1-8-27-19	8/27/2019	2622503009	WQ	FB				X
22502	GWC-12	8/27/2019	2622502010	GW		X	X		
22503	GWC-12	8/27/2019	2622503010	GW					X
22502	GWC-11	8/27/2019	2622502011	GW		X	X		
22503	GWC-11	8/27/2019	2622503011	GW					X
22502	GWC-22	8/27/2019	2622502012	GW		X	X		
22503	GWC-22	8/27/2019	2622503012	GW					X
22502	EB-1-8-27-19	8/27/2019	2622502013	WQ	FB	X	X		
22503	EB-1-8-27-19	8/27/2019	2622503013	WQ	FB				X
22502	GWC-1	8/27/2019	2622502014	GW		X	X		
22503	GWC-1	8/27/2019	2622503014	GW					X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – August 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
22502	DUP-1	8/27/2019	2622502015	GW	FD (GWC-13)	X	X		
22503	DUP-1	8/27/2019	2622503015	GW	FD (GWC-13)				X
22579	DUP-2	8/28/2019	2622579001	GW	FD (GWC-16)	X	X		
22581	DUP-2	8/28/2019	2622581001	GW	FD (GWC-16)				X
22579	GWC-16	8/28/2019	2622579002	GW		X	X		
22581	GWC-16	8/28/2019	2622581002	GW					X
22579	GWC-21	8/28/2019	2622579003	GW		X	X		
22581	GWC-21	8/28/2019	2622581003	GW					X
22579	GWC-20	8/28/2019	2622579004	GW		X	X		
22581	GWC-20	8/28/2019	2622581004	GW					X
22579	FB-2-8-28-19	8/28/2019	2622579005	WQ	FB	X	X		
22581	FB-2-8-28-19	8/28/2019	2622581005	WQ	FB				X
22579	GWC-17	8/28/2019	2622579006	GW		X	X		
22581	GWC-17	8/28/2019	2622581006	GW					X
22579	EB-2-8-28-19	8/28/2019	2622579007	WQ	EB	X	X		
22581	EB-2-8-28-19	8/28/2019	2622581007	WQ	EB				X
22579	GWC-9	8/28/2019	2622579008	GW		X	X		
22581	GWC-9	8/28/2019	2522581008	GW					X
22579	GWB-5R	8/28/2019	2622579009	GW		X	X		
22581	GWB-5R	8/28/2019	2622581009	GW					X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Grumman Road

Qualifier Summary Table – August 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
22503	GWA-7	Radium-226		0.236	ND	Blank detection
22503	GWB-4R	Radium-228		0.634	ND	Blank detection
22503	GWA-8	Radium-226		0.310	ND	Blank detection
22503	GWC-22	Radium-226		0.401	ND	Blank detection
22503	GWC-22	Radium-228		0.565	ND	Blank detection
22503	GWC-1	Radium-226			J	RPD exceeds laboratory goal
22503	GWC-1	Radium-228		0.642	ND	Blank detection
22579	DUP-2	Chromium			J	RPD exceeds field goal
22579	GWC-16	Chromium			J	RPD exceeds field goal
22579	GWC-21	Chromium		0.00087	ND	Blank detection
22579	GWC-20	Chromium		0.00089	ND	Blank detection
22579	GWC-17	Chromium		0.013	ND	Blank detection
22581	GWC-16	Radium-228		0.771	ND	Blank detection
22581	GWC-21	Radium-228		0.782	ND	Blank detection
22581	GWC-20	Radium-228		0.753	ND	Blank detection
22581	GWC-17	Radium-228		0.817	ND	Blank detection
22581	GWB-5R	Radium-226		0.175	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

Product Name: Low-Flow System

Date: 2019-08-26 16:16:35

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 19.6 ft

Well Information:

Well ID GWA-7
Well diameter 2 in
Well Total Depth 7.01 ft
Screen Length 5 ft
Depth to Water 7.01 ft

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 11.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	15:55:13	600.02	23.47	5.91	2020.04	509.00	7.50	0.03	88.98
Last 5	16:00:13	900.01	23.43	5.90	1997.06	598.00	7.50	0.03	87.46
Last 5	16:05:13	1200.01	23.36	5.89	2062.36	691.00	7.50	0.03	86.76
Last 5	16:10:16	1503.01	23.34	5.90	2060.91	708.00	7.50	0.03	85.89
Last 5	16:15:20	1807.00	23.38	5.91	2062.53	683.00	7.50	0.02	85.11
Variance 0			-0.06	-0.00	65.30			-0.00	-0.71
Variance 1			-0.02	0.01	-1.46			-0.00	-0.87
Variance 2			0.04	0.01	1.62			-0.00	-0.78

Notes

Sampled at 1615. 88F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-26 16:02:53

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 20 ft

Pump placement from TOC 17 ft

Well Information:

Well ID GWA-8
Well diameter 2 in
Well Total Depth 20.9 ft
Screen Length 5 ft
Depth to Water 9.03 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.2 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:20:29	300.09	26.23	4.82	359.21	15.50	10.00	0.18	78.83
Last 5	15:25:29	600.03	25.75	4.45	407.81	8.45	10.20	0.12	72.01
Last 5	15:30:29	900.02	25.55	4.33	428.73	7.30	10.30	0.09	70.76
Last 5	15:35:29	1200.02	25.26	4.29	432.67	5.52	10.30	0.08	69.12
Last 5	15:40:29	1500.02	25.33	4.26	437.82	4.11	10.30	0.07	67.22
Variance 0			-0.20	-0.12	20.92			-0.03	-1.25
Variance 1			-0.29	-0.04	3.94			-0.02	-1.64
Variance 2			0.07	-0.04	5.15			-0.01	-1.90

Notes

Cloudy, Sample time- 1540

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 17:15:51

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 20.8 ft

Well Information:

Well ID GWB-4R
Well diameter 2 in
Well Total Depth 23.30 ft
Screen Length 5 ft
Depth to Water 11.54 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 55.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	16:55:05	7201.96	22.64	5.70	703.23	9.80	12.00	0.05	104.39
Last 5	17:00:05	7501.95	22.62	5.70	700.91	7.20	12.00	0.05	103.57
Last 5	17:05:05	7801.94	22.61	5.70	701.53	6.10	12.00	0.05	102.80
Last 5	17:10:05	8101.94	22.63	5.70	696.31	5.78	12.00	0.05	101.85
Last 5	17:15:05	8401.93	22.64	5.70	696.91	4.98	12.00	0.05	101.23
Variance 0			-0.01	0.00	0.61			-0.00	-0.76
Variance 1			0.02	-0.01	-5.22			0.00	-0.95
Variance 2			0.01	0.00	0.60			-0.00	-0.62

Notes

Sampled at 1715. Rain 84F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 15:52:01

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 29 ft

Pump placement from TOC 24.00 ft

Well Information:

Well ID GWB-5R
Well diameter 2 in
Well Total Depth 26.50 ft
Screen Length 10 ft
Depth to Water 10.58 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2194393 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 35 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	15:30:29	9605.92	24.33	5.95	1721.98	53.00	11.00	0.01	221.09
Last 5	15:35:29	9905.92	24.24	5.95	1747.03	55.00	11.00	0.01	199.88
Last 5	15:40:29	10205.93	24.34	5.94	1723.63	52.00	11.00	0.01	186.90
Last 5	15:45:29	10505.92	24.33	5.95	1731.01	54.00	11.00	0.01	178.36
Last 5	15:50:31	10807.91	24.38	5.95	1744.30	53.00	11.00	0.01	171.65
Variance 0			0.11	-0.01	-23.40			-0.00	-12.98
Variance 1			-0.01	0.01	7.39			-0.00	-8.55
Variance 2			0.05	0.00	13.28			-0.00	-6.71

Notes

Sunny, sample Time-1550, 2nd Rad collected here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 14:16:34

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter
Tubing Length
Peri. Pump
poly
.17 in
25 ft

Pump placement from TOC 20.2 ft

Well Information:

Well ID GWB-6R
Well diameter 2 in
Well Total Depth 22.70 ft
Screen Length 5 ft
Depth to Water 8.46 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	13:55:13	1500.01	23.93	5.64	871.46	59.90	8.70	0.08	116.93
Last 5	14:00:13	1800.01	23.93	5.66	908.20	64.00	8.70	0.07	115.09
Last 5	14:05:13	2100.00	23.96	5.67	924.65	61.90	8.70	0.06	113.16
Last 5	14:10:14	2401.00	24.01	5.67	937.23	64.20	8.70	0.05	111.70
Last 5	14:15:14	2700.99	24.45	5.67	933.03	59.40	8.70	0.04	110.23
Variance 0			0.03	0.01	16.45			-0.00	-1.93
Variance 1			0.05	0.01	12.59			-0.01	-1.46
Variance 2			0.44	-0.00	-4.20			-0.01	-1.47

Notes

Sampled at 1415. 82F heavy rain.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 17:01:53

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 28 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWC-1
Well diameter 2 in
Well Total Depth 28.10 ft
Screen Length 5 ft
Depth to Water 19.18 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.4 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	16:40:16	300.03	96.33	5.82	181.31	4.01	19.30	-0.04	97.05
Last 5	16:45:16	600.03	96.33	5.86	184.58	3.25	19.30	-0.06	96.71
Last 5	16:50:16	900.03	96.33	5.85	185.38	3.22	19.30	-0.07	97.00
Last 5	16:55:16	1200.03	96.33	5.84	184.49	3.05	19.30	-0.08	98.22
Last 5	17:00:16	1500.02	96.33	5.84	184.80	3.01	19.30	-0.09	97.97
Variance 0			-0.00	-0.00	0.80			-0.01	0.29
Variance 1			-0.01	-0.02	-0.90			-0.00	1.22
Variance 2			0.01	0.01	0.32			-0.01	-0.26

Notes

Rain, Sample time 1700, 2nd rad here

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 11:15:46

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 28.8 ft

Well Information:

Well ID GWC-2
Well diameter 2 in
Well Total Depth 31.4 ft
Screen Length 5 ft
Depth to Water 19.53 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	10:55:02	600.02	21.77	4.77	62.09	2.30	19.60	0.14	115.48
Last 5	11:00:02	900.01	21.77	4.76	61.76	2.10	19.60	0.14	123.03
Last 5	11:05:02	1200.01	21.80	4.75	62.20	0.10	19.60	0.10	130.61
Last 5	11:10:02	1500.01	22.13	4.76	61.34	0.01	19.60	0.10	137.88
Last 5	11:15:04	1802.00	21.99	4.77	61.24	0.07	19.60	0.11	146.98
Variance 0			0.03	-0.01	0.44			-0.03	7.58
Variance 1			0.33	0.01	-0.86			-0.01	7.27
Variance 2			-0.14	0.01	-0.10			0.01	9.10

Notes

Sampled at 1115. Cloudy 85F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 16:11:35

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 27 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 27.4 ft
Screen Length 5 ft
Depth to Water 10.13 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:50:03	2401.05	96.29	5.10	79.53	4.55	21.60	0.11	52.80
Last 5	15:55:03	2701.03	96.28	5.09	79.42	4.21	23.00	0.20	53.65
Last 5	16:00:03	3001.01	96.29	5.14	80.19	11.00	24.40	0.30	55.43
Last 5	16:05:03	3301.01	96.30	5.12	79.48	8.32	25.30	-0.02	52.53
Last 5	16:10:03	3601.01	96.30	5.11	79.55	6.62	26.60	0.00	50.55
Variance 0			0.01	0.05	0.77			0.10	1.78
Variance 1			0.01	-0.02	-0.71			-0.32	-2.90
Variance 2			-0.00	-0.01	0.07			0.02	-1.98

Notes

Cloudy, well purged dry, allow for overnight recharge.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 12:54:13

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 27 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 27.4 ft
Screen Length 5 ft
Depth to Water 10.13 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 29.6 in
Total Volume Pumped 2.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:35:11	300.04	29.20	4.73	189.75	10.00	10.90	1.18	38.58
Last 5	12:40:11	600.03	27.57	4.71	194.27	8.21	11.60	0.66	36.63
Last 5	12:45:11	900.02	29.48	4.71	193.06	5.30	12.10	0.63	32.46
Last 5	12:50:11	1200.02	29.30	4.68	193.80	4.30	12.70	0.23	31.55
Last 5									
Variance 0			-1.63	-0.02	4.53			-0.52	-1.95
Variance 1			1.90	0.00	-1.22			-0.03	-4.17
Variance 2			-0.18	-0.03	0.75			-0.40	-0.91

Notes

Sunny ,Sample time-1250

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 11:57:04

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 22.5 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWC-11
Well diameter 2 in
Well Total Depth 22.55 ft
Screen Length 5 ft
Depth to Water 13.67 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.190427 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 39.9 in
Total Volume Pumped 14.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:35:14	5401.99	79.59	5.17	343.02	4.33	17.00	0.08	119.02
Last 5	11:40:14	5701.99	78.80	5.17	370.24	4.55	17.00	0.18	121.06
Last 5	11:45:14	6001.99	76.65	5.15	380.27	3.77	17.00	0.05	121.52
Last 5	11:50:14	6301.99	77.35	5.15	398.70	3.12	17.00	0.07	122.33
Last 5	11:55:14	6601.99	78.98	5.17	381.45	3.10	17.00	0.03	122.03
Variance 0			-2.14	-0.01	10.03			-0.13	0.46
Variance 1			0.70	-0.00	18.42			0.02	0.81
Variance 2			1.64	0.02	-17.25			-0.04	-0.30

Notes

Cloudy, Sample time -1155

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 09:33:15

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 26 ft

Pump placement from TOC 23 ft

Well Information:

Well ID GWC-12
Well diameter 2 in
Well Total Depth 26.7 ft
Screen Length 5 ft
Depth to Water 13.34 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.206049 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.5 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:10:22	1200.02	24.17	4.13	863.14	9.19	13.80	0.09	99.81
Last 5	09:15:22	1500.02	24.05	4.07	960.88	5.10	13.80	0.08	97.85
Last 5	09:20:22	1800.02	23.92	4.03	1035.26	4.22	13.80	0.07	93.76
Last 5	09:25:22	2100.02	24.19	4.02	1034.43	3.05	13.80	0.06	91.55
Last 5	09:30:22	2400.01	23.94	4.02	1041.03	4.62	13.80	0.06	90.17
Variance 0			-0.13	-0.04	74.38			-0.00	-4.09
Variance 1			0.27	-0.01	-0.83			-0.01	-2.21
Variance 2			-0.25	-0.01	6.61			-0.00	-1.38

Notes

Cloudy, Sample time 0930, FB-1-8-27-19 here at 0910

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 12:32:53

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 45.28 ft

Well Information:

Well ID GWC-13
Well diameter 2 in
Well Total Depth 47.78 ft
Screen Length 5 ft
Depth to Water 14.34 ft

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.5 in
Total Volume Pumped 11.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	12:10:03	900.01	23.34	4.91	94.03	3.89	15.00	0.08	180.02
Last 5	12:15:03	1200.01	23.32	4.91	89.38	2.11	15.00	0.08	201.72
Last 5	12:20:03	1500.01	23.43	4.91	87.74	2.01	15.00	0.07	212.00
Last 5	12:25:03	1800.00	23.17	4.90	86.49	1.11	15.00	0.07	219.28
Last 5	12:30:03	2100.00	23.19	4.90	85.07	0.87	15.00	0.07	222.68
Variance 0			0.10	-0.00	-1.63			-0.01	10.28
Variance 1			-0.25	-0.01	-1.25			-0.00	7.28
Variance 2			0.01	0.01	-1.42			0.00	3.40

Notes

Sampled at 1230. 87F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 10:21:04

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 24.5 ft

Well Information:

Well ID GWC-14
Well diameter 2 in
Well Total Depth 27 ft
Screen Length 5 ft
Depth to Water 19.65 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.5 in
Total Volume Pumped 8.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	10:00:01	600.02	21.94	5.58	992.18	4.78	20.00	0.27	120.01
Last 5	10:05:01	900.01	21.86	5.58	1003.12	1.07	20.00	0.27	124.03
Last 5	10:10:06	1205.01	21.83	5.58	1002.97	1.16	20.00	0.25	128.65
Last 5	10:15:09	1508.01	21.76	5.58	999.96	0.01	20.00	0.27	133.84
Last 5	10:20:16	1815.00	21.71	5.58	999.72	0.01	20.00	0.27	138.60
Variance 0			-0.03	-0.00	-0.15			-0.02	4.61
Variance 1			-0.07	-0.00	-3.01			0.01	5.20
Variance 2			-0.05	-0.00	-0.24			0.01	4.75

Notes

Sampled at 1020. Cloudy 84F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 09:26:49

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 24.3 ft

Well Information:

Well ID GWC-15
Well diameter 2 in
Well Total Depth 26.8 ft
Screen Length 5 ft
Depth to Water 19.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	09:04:59	600.02	23.05	6.54	784.46	21.00	19.60	0.18	115.44
Last 5	09:09:59	900.01	23.03	6.56	807.60	15.00	19.70	0.15	114.97
Last 5	09:14:59	1200.01	22.97	6.57	819.55	5.08	19.70	0.14	114.93
Last 5	09:19:59	1499.99	23.00	6.57	827.76	4.75	19.70	0.12	115.43
Last 5	09:25:03	1804.00	23.07	6.57	826.86	4.99	19.70	0.09	116.70
Variance 0			-0.05	0.01	11.96			-0.01	-0.04
Variance 1			0.03	0.00	8.21			-0.01	0.50
Variance 2			0.07	-0.00	-0.90			-0.03	1.27

Notes

Sampled at 0925. 80F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 09:23:24

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 32 ft

Pump placement from TOC 25.7 ft

Well Information:

Well ID GWC-16
Well diameter 2 in
Well Total Depth 28.20 ft
Screen Length 5 ft
Depth to Water 20.7 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	09:00:55	900.01	22.43	5.10	1337.13	29.20	21.10	0.59	154.59
Last 5	09:05:55	1200.01	22.44	5.34	1386.66	34.90	21.10	0.54	152.24
Last 5	09:10:55	1500.01	22.44	5.42	1437.30	10.00	21.10	0.50	152.91
Last 5	09:15:55	1800.00	22.34	5.47	1439.00	9.70	21.10	0.51	153.74
Last 5	09:20:55	2100.00	22.26	5.51	1445.97	6.41	21.10	0.51	155.11
Variance 0			0.00	0.08	50.64			-0.04	0.68
Variance 1			-0.10	0.05	1.69			0.01	0.83
Variance 2			-0.07	0.04	6.97			-0.00	1.37

Notes

Accidentally canceled purge.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 09:41:45

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 32 ft

Pump placement from TOC 25.7 ft

Well Information:

Well ID GWC-16
Well diameter 2 in
Well Total Depth 28.2 ft
Screen Length 5 ft
Depth to Water 20.7 ft

Pumping Information:

Final Pumping Rate 230 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	09:29:25	300.03	22.25	5.54	1467.40	3.41	21.10	0.49	155.56
Last 5	09:34:25	600.02	22.26	5.56	1439.05	4.64	21.10	0.47	154.82
Last 5	09:39:25	900.01	22.26	5.57	1460.28	0.56	21.10	0.46	155.19
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.02	0.02	-28.34			-0.02	-0.75
Variance 2			0.00	0.01	21.22			-0.01	0.38

Notes

Continued 2/2. Sampled at 0939. Sunny 85F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 12:06:37

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 23 ft

Pump placement from TOC 21 ft

Well Information:

Well ID GWC-17
Well diameter 2 in
Well Total Depth 23 ft
Screen Length 5 ft
Depth to Water 6.52 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.3 in
Total Volume Pumped 18.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:40:08	9899.97	28.83	4.78	1686.39	16.00	7.80	0.09	46.79
Last 5	11:45:08	10199.96	28.41	4.59	1807.06	12.00	7.80	0.08	50.00
Last 5	11:50:08	10499.96	28.64	4.69	1728.24	11.00	7.80	0.08	48.88
Last 5	11:55:08	10799.96	28.83	4.64	1750.81	11.00	7.80	0.08	50.25
Last 5	12:00:08	11099.96	29.72	4.62	1785.53	9.52	7.80	0.06	50.52
Variance 0			0.23	0.10	-78.83			-0.00	-1.12
Variance 1			0.19	-0.04	22.57			0.00	1.38
Variance 2			0.89	-0.02	34.72			-0.02	0.27

Notes

Sunny, Sample time 1200, FB-2-8-28-19 here at 1000

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 12:12:16

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 28 ft

Pump placement from TOC 22.4 ft

Well Information:

Well ID GWC-20
Well diameter 2 in
Well Total Depth 24.90 ft
Screen Length 5 ft
Depth to Water 21.06 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.5 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	11:50:29	1200.01	23.34	6.34	617.62	0.20	21.50	0.14	124.61
Last 5	11:55:29	1500.01	23.31	6.34	618.57	0.20	21.50	0.14	124.70
Last 5	12:00:30	1801.01	23.34	6.34	620.18	0.20	21.50	0.14	124.26
Last 5	12:05:30	2101.00	23.64	6.34	616.95	0.20	21.50	0.19	125.05
Last 5	12:10:34	2405.00	23.47	6.34	618.79	0.40	21.50	0.24	126.23
Variance 0			0.03	0.00	1.61			-0.00	-0.45
Variance 1			0.30	0.00	-3.23			0.06	0.79
Variance 2			-0.17	0.00	1.84			0.05	1.18

Notes

Sampled at 1210. 84F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-28 11:02:06

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name Grumman Road
Site Name Default Site
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-21
Well diameter 2 in
Well Total Depth 23.8 ft
Screen Length 5 ft
Depth to Water 20.55 ft

Pumping Information:

Final Pumping Rate 115 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 10.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 0.2	+/- 100
Last 5	10:40:07	1500.01	23.32	6.00	218.38	4.61	20.80	2.80	258.56
Last 5	10:45:08	1801.00	24.06	6.13	291.95	4.55	20.80	1.95	234.74
Last 5	10:50:08	2101.00	24.23	6.07	254.79	7.58	20.80	2.39	236.20
Last 5	10:55:08	2401.00	24.16	6.06	251.47	2.05	20.80	2.54	236.57
Last 5	11:00:08	2700.99	24.19	6.05	252.63	--	--	2.50	232.72
Variance 0			0.18	-0.06	-37.16			0.44	1.46
Variance 1			-0.07	-0.01	-3.32			0.15	0.37
Variance 2			0.03	-0.01	1.16			-0.04	-3.85

Notes

Sampled at 1100. Sunny 86F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-27 14:35:06

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 AIV Scan Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peru Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 18.6 ft

Pump placement from TOC 16 ft

Well Information:

Well ID GWC-22
Well diameter 2 in
Well Total Depth 18.6 ft
Screen Length 5 ft
Depth to Water 9.51 ft

Pumping Information:

Final Pumping Rate 165 mL/min
Total System Volume 0.1730197 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.4 in
Total Volume Pumped 10.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:10:30	2700.01	89.47	4.92	946.54	4.26	9.70	-0.04	179.05
Last 5	14:15:30	3000.01	90.82	4.91	998.23	4.55	9.70	-0.05	184.08
Last 5	14:20:30	3300.00	87.48	4.88	1068.28	4.92	9.70	-0.04	188.86
Last 5	14:25:30	3600.00	88.33	4.88	1103.13	3.77	9.70	-0.04	193.54
Last 5	14:30:30	3900.01	89.73	4.89	1114.20	3.03	9.70	-0.06	197.68
Variance 0			-3.34	-0.03	70.05			0.01	4.78
Variance 1			0.84	-0.00	34.85			-0.00	4.68
Variance 2			1.40	0.00	11.07			-0.01	4.15

Notes

Rain, Sample time-1430

Grab Samples

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2624186

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624186

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624186001	GWA-7	Water	10/08/19 09:45	10/10/19 13:45
2624186002	GWB-5R	Water	10/09/19 16:20	10/10/19 13:45

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624186001	GWA-7	EPA 6020B	CSW	16
		EPA 7470A	DRB	1
2624186002	GWB-5R	EPA 6020B	CSW	16
		EPA 7470A	DRB	1

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624186

Sample: GWA-7		Lab ID: 2624186001		Collected: 10/08/19 09:45	Received: 10/10/19 13:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony, Dissolved	ND	mg/L	0.015	0.0014	5	10/11/19 14:13	10/16/19 15:50	7440-36-0	D3	
Arsenic, Dissolved	0.0055J	mg/L	0.025	0.0018	5	10/11/19 14:13	10/16/19 15:50	7440-38-2	B,D3	
Barium, Dissolved	0.077	mg/L	0.050	0.0024	5	10/11/19 14:13	10/16/19 15:50	7440-39-3		
Beryllium, Dissolved	ND	mg/L	0.015	0.00037	5	10/11/19 14:13	10/16/19 15:50	7440-41-7	D3	
Boron, Dissolved	6.2	mg/L	0.20	0.025	5	10/11/19 14:13	10/16/19 15:50	7440-42-8	M1	
Cadmium, Dissolved	ND	mg/L	0.012	0.00057	5	10/11/19 14:13	10/16/19 15:50	7440-43-9	D3	
Calcium, Dissolved	3.2	mg/L	0.50	0.055	5	10/11/19 14:13	10/16/19 15:50	7440-70-2		
Chromium, Dissolved	0.014J	mg/L	0.050	0.0020	5	10/11/19 14:13	10/16/19 15:50	7440-47-3	D3	
Cobalt, Dissolved	0.0025J	mg/L	0.025	0.0015	5	10/11/19 14:13	10/16/19 15:50	7440-48-4	D3	
Lead, Dissolved	0.00031J	mg/L	0.025	0.00023	5	10/11/19 14:13	10/16/19 15:50	7439-92-1	D3	
Lithium, Dissolved	ND	mg/L	0.15	0.0039	5	10/11/19 14:13	10/16/19 15:50	7439-93-2	D3	
Molybdenum, Dissolved	ND	mg/L	0.050	0.0047	5	10/11/19 14:13	10/16/19 15:50	7439-98-7	D3	
Selenium, Dissolved	0.0087J	mg/L	0.050	0.0063	5	10/11/19 14:13	10/16/19 15:50	7782-49-2	D3	
Thallium, Dissolved	ND	mg/L	0.0050	0.00026	5	10/11/19 14:13	10/16/19 15:50	7440-28-0	D3	
Vanadium, Dissolved	0.12	mg/L	0.050	0.0035	5	10/11/19 14:13	10/17/19 16:37	7440-62-2		
Zinc, Dissolved	ND	mg/L	0.050	0.0077	5	10/11/19 14:13	10/16/19 15:50	7440-66-6	D3	
7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	mg/L	0.00020	0.00014	1	10/16/19 09:37	10/17/19 11:28	7439-97-6		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624186

Sample: GWB-5R Lab ID: 2624186002 Collected: 10/09/19 16:20 Received: 10/10/19 13:45 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony, Dissolved	ND	mg/L	0.015	0.0014	5	10/11/19 14:13	10/16/19 17:06	7440-36-0	D3
Arsenic, Dissolved	0.0080J	mg/L	0.025	0.0018	5	10/11/19 14:13	10/16/19 17:06	7440-38-2	B,D3
Barium, Dissolved	0.13	mg/L	0.050	0.0024	5	10/11/19 14:13	10/16/19 17:06	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.015	0.00037	5	10/11/19 14:13	10/16/19 17:06	7440-41-7	D3
Boron, Dissolved	8.5	mg/L	2.0	0.25	50	10/11/19 14:13	10/16/19 17:12	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.012	0.00057	5	10/11/19 14:13	10/16/19 17:06	7440-43-9	D3
Calcium, Dissolved	18.2	mg/L	0.50	0.055	5	10/11/19 14:13	10/16/19 17:06	7440-70-2	
Chromium, Dissolved	0.012J	mg/L	0.050	0.0020	5	10/11/19 14:13	10/16/19 17:06	7440-47-3	D3
Cobalt, Dissolved	0.0042J	mg/L	0.025	0.0015	5	10/11/19 14:13	10/16/19 17:06	7440-48-4	D3
Lead, Dissolved	ND	mg/L	0.025	0.00023	5	10/11/19 14:13	10/16/19 17:06	7439-92-1	D3
Lithium, Dissolved	ND	mg/L	0.15	0.0039	5	10/11/19 14:13	10/16/19 17:06	7439-93-2	D3
Molybdenum, Dissolved	ND	mg/L	0.050	0.0047	5	10/11/19 14:13	10/16/19 17:06	7439-98-7	D3
Selenium, Dissolved	ND	mg/L	0.050	0.0063	5	10/11/19 14:13	10/16/19 17:06	7782-49-2	D3
Thallium, Dissolved	ND	mg/L	0.0050	0.00026	5	10/11/19 14:13	10/16/19 17:06	7440-28-0	D3
Vanadium, Dissolved	0.043J	mg/L	0.050	0.0035	5	10/11/19 14:13	10/17/19 16:42	7440-62-2	
Zinc, Dissolved	ND	mg/L	0.050	0.0077	5	10/11/19 14:13	10/16/19 17:06	7440-66-6	D3
7470 Mercury, Dissolved Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury, Dissolved	ND	mg/L	0.00020	0.00014	1	10/16/19 09:37	10/17/19 11:37	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

QC Batch: 37007 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 2624186001, 2624186002

METHOD BLANK: 167295 Matrix: Water

Associated Lab Samples: 2624186001, 2624186002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.00014	10/17/19 11:23	

LABORATORY CONTROL SAMPLE: 167296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 167297 167298

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2624186001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	mg/L	ND	0.0025	0.0025	0.0024	0.0022	94	89	75-125	5	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624186

QC Batch: 36866 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET Dissolved
Associated Lab Samples: 2624186001, 2624186002

METHOD BLANK: 166659 Matrix: Water
Associated Lab Samples: 2624186001, 2624186002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00027	10/16/19 15:38	
Arsenic, Dissolved	mg/L	0.0011J	0.0050	0.00035	10/16/19 15:38	
Barium, Dissolved	mg/L	ND	0.010	0.00049	10/16/19 15:38	
Beryllium, Dissolved	mg/L	ND	0.0030	0.000074	10/16/19 15:38	
Boron, Dissolved	mg/L	ND	0.040	0.0049	10/16/19 15:38	
Cadmium, Dissolved	mg/L	ND	0.0025	0.00011	10/16/19 15:38	
Calcium, Dissolved	mg/L	ND	0.10	0.011	10/16/19 15:38	
Chromium, Dissolved	mg/L	ND	0.010	0.00039	10/16/19 15:38	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00030	10/16/19 15:38	
Lead, Dissolved	mg/L	ND	0.0050	0.000046	10/16/19 15:38	
Lithium, Dissolved	mg/L	ND	0.030	0.00078	10/16/19 15:38	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00095	10/16/19 15:38	
Selenium, Dissolved	mg/L	ND	0.010	0.0013	10/16/19 15:38	
Thallium, Dissolved	mg/L	ND	0.0010	0.000052	10/16/19 15:38	
Vanadium, Dissolved	mg/L	0.0058J	0.010	0.00071	10/16/19 15:38	
Zinc, Dissolved	mg/L	0.0046J	0.010	0.0015	10/16/19 15:38	

LABORATORY CONTROL SAMPLE: 166660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.097	97	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	100	80-120	
Barium, Dissolved	mg/L	0.1	0.10	100	80-120	
Beryllium, Dissolved	mg/L	0.1	0.11	111	80-120	
Boron, Dissolved	mg/L	1	1.1	111	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	102	80-120	
Calcium, Dissolved	mg/L	1	1.0	100	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	103	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	101	80-120	
Lead, Dissolved	mg/L	0.1	0.10	101	80-120	
Lithium, Dissolved	mg/L	0.1	0.11	112	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	100	80-120	
Selenium, Dissolved	mg/L	0.1	0.098	98	80-120	
Thallium, Dissolved	mg/L	0.1	0.10	102	80-120	
Vanadium, Dissolved	mg/L	0.1	0.11	106	80-120	
Zinc, Dissolved	mg/L	0.1	0.10	105	80-120	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166661		166662		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2624186001 Result	MS Spike Conc.	MSD Spike Conc.									
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.096	0.093	96	92	75-125	4	20		
Arsenic, Dissolved	mg/L	0.0055J	0.1	0.1	0.10	0.10	95	95	75-125	0	20		
Barium, Dissolved	mg/L	0.077	0.1	0.1	0.17	0.17	97	93	75-125	2	20		
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	3	20		
Boron, Dissolved	mg/L	6.2	1	1	7.7	7.8	145	161	75-125	2	20	M1	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	3	20		
Calcium, Dissolved	mg/L	3.2	1	1	4.3	4.2	117	104	75-125	3	20		
Chromium, Dissolved	mg/L	0.014J	0.1	0.1	0.11	0.11	97	98	75-125	1	20		
Cobalt, Dissolved	mg/L	0.0025J	0.1	0.1	0.098	0.099	96	96	75-125	1	20		
Lead, Dissolved	mg/L	0.00031J	0.1	0.1	0.093	0.092	93	92	75-125	1	20		
Lithium, Dissolved	mg/L	ND	0.1	0.1	0.10J	0.10J	102	105	75-125		20		
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20		
Selenium, Dissolved	mg/L	0.0087J	0.1	0.1	0.10	0.10	96	95	75-125	0	20		
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20		
Vanadium, Dissolved	mg/L	0.12	0.1	0.1	0.24	0.24	125	126	75-125	0	20		
Zinc, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	96	98	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624186001	GWA-7	EPA 3005A	36866	EPA 6020B	36889
2624186002	GWB-5R	EPA 3005A	36866	EPA 6020B	36889
2624186001	GWA-7	EPA 7470A	37007	EPA 7470A	37097
2624186002	GWB-5R	EPA 7470A	37007	EPA 7470A	37097

REPORT OF LABORATORY ANALYSIS


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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

CLIENT NAME:		ANALYSIS REQUESTED										CONTAINER TYPE		PRESERVATION										
Georgia Power		CONTAINER TYPE:			P			P				P		P	P									
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:		# of			3			7				7		7	7									
241 Ralph McGill Blvd SE B10185		CONTAINER TYPE:			-			Field Filtered				State Metals (see below)		Field Filtered	Field Filtered									
Atlanta, GA 30308		PRESERVATION:			C.I. F. SO ₄ & TDS			(EPA 300.0 & SM 2540C)				Detected App IV: Radium 226 & 228		Detected App IV Metals: (see list below)	State Metals (see below)									
404-506-7239		C O N T A I N E R S			Metals App. III			Boron, Calcium																
REPORT TO:		C O N T A I N E R S			Metals App. III			Boron, Calcium																
REQUESTED COMPLETION DATE:		C O N T A I N E R S			Metals App. III			Boron, Calcium																
PROJECT NAME/STATE:		C O N T A I N E R S			Metals App. III			Boron, Calcium																
Plant Kraft Gramman Road		C O N T A I N E R S			Metals App. III			Boron, Calcium																
PROJECT #:		C O N T A I N E R S			Metals App. III			Boron, Calcium																
Collection DATE		Collection TIME		MATRIX CODE*		COM P		SAMPLE IDENTIFICATION		G R A B		X		GWA-7										
10-3-19		1745		GW		X		GWA-7		X		X		GWA-7										
10-9-19		1620		GW		X		GWB-GR		X		X		GWB-GR										
10-9-19		1620		GW		X		GWB-5R		X		X		GWB-5R										
<p>REMARKS/ADDITIONAL INFORMATION</p> <p>App III and detected App IV</p> <p>OF 10-9-19</p>																								
<p>W0#: 2624186</p>  <p>2624186</p>																								
SAMPLED BY AND TITLE:				DATE/TIME:				RELINQUISHED BY:				DATE/TIME:				FOR LAB USE ONLY								
H. B. [Signature]				10-9-19 1620				A. [Signature]				10/10/19 1345				LAB #:								
RECEIVED BY:				DATE/TIME:				RELINQUISHED BY:				DATE/TIME:				Entered into LIMS:								
[Signature]				[Signature]				[Signature]				[Signature]				Tracking #:								
RECEIVED BY LAB:				DATE/TIME:				SAMPLE SHIPPED VIA:				COURIER				CLIENT				OTHER	FS			
Pace Analytical				10/10/19 1345				UPS				FED-EX				USPS				Other				FS
Checked:				Temperature:				Custody Seal:				# of Coasters				Coaster ID:								
Yes				Min: 0.4				Intact				Not Present												

Detected App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, and Thallium
 State Metals: As, Ba, Cr, Pb, Sb, Se, V, Zn



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

WO#: **2624186**

PM: **BM** Due Date: **10/17/19**
CLIENT: **GAPower-CCR**

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.4 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/10/19 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624187001	Dup-1	Water	10/08/19 00:00	10/10/19 13:15
2624187002	EB-1-10-8-19	Water	10/08/19 16:15	10/10/19 13:15
2624187003	GWC-16	Water	10/08/19 12:30	10/10/19 13:15
2624187004	GWC-21	Water	10/08/19 14:25	10/10/19 13:15
2624187005	GWC-15	Water	10/08/19 15:25	10/10/19 13:15
2624187006	GWC-14	Water	10/08/19 16:30	10/10/19 13:15
2624187007	GWB-4R	Water	10/09/19 11:40	10/10/19 13:15
2624187008	GWC-2	Water	10/09/19 13:00	10/10/19 13:15
2624187009	FB-2-10-9-19	Water	10/09/19 13:20	10/10/19 13:15
2624187010	GWC-20	Water	10/09/19 14:25	10/10/19 13:15
2624187011	GWA-8	Water	10/07/19 17:25	10/10/19 13:15
2624187012	GWA-7	Water	10/08/19 09:45	10/10/19 13:15
2624187013	FB-1-10-8-19	Water	10/08/19 10:40	10/10/19 13:15
2624187014	GWC-13	Water	10/08/19 11:25	10/10/19 13:15
2624187015	GWC-11	Water	10/08/19 15:15	10/10/19 13:15
2624187016	GWC-12	Water	10/09/19 09:55	10/10/19 13:15
2624187017	Dup-2	Water	10/09/19 00:00	10/10/19 13:15
2624187018	GWC-17	Water	10/09/19 11:10	10/10/19 13:15
2624187019	GWC-22	Water	10/09/19 13:18	10/10/19 13:15
2624187020	GWB-6R	Water	10/09/19 15:13	10/10/19 13:15
2624187021	GWB-5R	Water	10/09/19 16:20	10/10/19 13:15
2624187022	GWC-1	Water	10/09/19 15:40	10/10/19 13:15
2624187023	GWC-9	Water	10/09/19 12:10	10/10/19 13:15
2624187024	EB-2-10-9-19	Water	10/09/19 12:30	10/10/19 13:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624187001	Dup-1	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187002	EB-1-10-8-19	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187003	GWC-16	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187004	GWC-21	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187005	GWC-15	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187006	GWC-14	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187007	GWB-4R	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187008	GWC-2	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187009	FB-2-10-9-19	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187010	GWC-20	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187011	GWA-8	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187012	GWA-7	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187013	FB-1-10-8-19	EPA 6020B	CSW	16

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624187014	GWC-13	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187015	GWC-11	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187016	GWC-12	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187017	Dup-2	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187018	GWC-17	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187019	GWC-22	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187020	GWB-6R	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187021	GWB-5R	SM 2540C	ALW	1
		EPA 300.0	MWB	3
		EPA 6020B	CSW	16
2624187022	GWC-1	EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187023	GWC-9	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624187024	EB-2-10-9-19	EPA 6020B	CSW	16
		SM 2540C	ALW	1
		EPA 300.0	MWB	3

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: Dup-1		Lab ID: 2624187001		Collected: 10/08/19 00:00		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 20:00	7440-36-0	
Arsenic	0.089	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 20:00	7440-38-2	
Barium	0.13	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 20:00	7440-39-3	
Beryllium	0.000088J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 20:00	7440-41-7	
Boron	8.4	mg/L	2.0	0.25	50	10/14/19 14:35	10/18/19 17:40	7440-42-8	M6
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 20:00	7440-43-9	
Calcium	206	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 20:06	7440-70-2	M6
Chromium	0.00087J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 20:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 20:00	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 20:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 20:00	7439-93-2	
Molybdenum	0.20	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 20:00	7439-98-7	
Selenium	0.0024J	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 20:00	7782-49-2	
Thallium	0.00011J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 20:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 20:00	7440-62-2	
Zinc	0.010	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 20:00	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	1500	mg/L	10.0	10.0	1		10/11/19 11:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	45.8	mg/L	1.0	0.024	1		10/15/19 06:03	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/15/19 06:03	16984-48-8	
Sulfate	943	mg/L	20.0	0.34	20		10/15/19 22:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: EB-1-10-8-19		Lab ID: 2624187002		Collected: 10/08/19 16:15		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 20:52	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 20:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 20:52	7440-41-7	
Boron	0.0089J	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 20:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 20:52	7440-43-9	
Calcium	0.014J	mg/L	0.10	0.011	1	10/14/19 14:35	10/17/19 20:52	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 20:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 20:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 20:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 20:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 20:52	7440-62-2	
Zinc	0.0046J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 20:52	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	20.0	mg/L	10.0	10.0	1		10/11/19 11:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	0.024	1		10/15/19 06:25	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/15/19 06:25	16984-48-8	
Sulfate	0.26J	mg/L	1.0	0.017	1		10/15/19 06:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-16		Lab ID: 2624187003		Collected: 10/08/19 12:30	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 20:57	7440-36-0		
Arsenic	0.088	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 20:57	7440-38-2		
Barium	0.13	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 20:57	7440-39-3		
Beryllium	0.000098J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 20:57	7440-41-7		
Boron	8.4	mg/L	2.0	0.25	50	10/14/19 14:35	10/18/19 17:45	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 20:57	7440-43-9		
Calcium	205	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 21:03	7440-70-2		
Chromium	0.00099J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 20:57	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 20:57	7440-48-4		
Lead	0.00010J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 20:57	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 20:57	7439-93-2		
Molybdenum	0.20	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 20:57	7439-98-7		
Selenium	0.0023J	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 20:57	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 20:57	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 20:57	7440-62-2		
Zinc	0.010	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 20:57	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1500	mg/L	10.0	10.0	1		10/11/19 11:29			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	46.4	mg/L	1.0	0.024	1		10/15/19 07:53	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/15/19 07:53	16984-48-8		
Sulfate	872	mg/L	50.0	0.85	50		10/15/19 22:52	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWC-21		Lab ID: 2624187004		Collected: 10/08/19 14:25	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 21:09	7440-41-7		
Boron	1.0	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 21:09	7440-42-8		
Chromium	0.00065J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 21:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 21:09	7440-48-4		
Arsenic	0.0028J	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 21:09	7440-38-2		
Selenium	0.019	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 21:09	7782-49-2		
Molybdenum	0.078	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 21:09	7439-98-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 21:09	7440-43-9		
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 21:09	7440-36-0		
Barium	0.079	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 21:09	7440-39-3		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 21:09	7440-28-0		
Lead	0.00016J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 21:09	7439-92-1		
Calcium	49.5	mg/L	1.0	0.11	10	10/14/19 14:35	10/18/19 17:51	7440-70-2		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 21:09	7439-93-2		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 21:09	7440-62-2		
Zinc	0.0071J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 21:09	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	278	mg/L	10.0	10.0	1		10/11/19 11:29			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	7.8	mg/L	1.0	0.024	1		10/15/19 08:15	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/15/19 08:15	16984-48-8		
Sulfate	85.6	mg/L	5.0	0.085	5		10/15/19 23:36	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-15		Lab ID: 2624187005		Collected: 10/08/19 15:25		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 21:20	7440-36-0	
Arsenic	0.13	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 21:20	7440-38-2	
Barium	0.057	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 21:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 21:20	7440-41-7	
Boron	1.1	mg/L	0.40	0.049	10	10/14/19 14:35	10/18/19 17:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 21:20	7440-43-9	
Calcium	129	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 21:26	7440-70-2	
Chromium	0.0017J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 21:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 21:20	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 21:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 21:20	7439-93-2	
Molybdenum	0.091	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 21:20	7439-98-7	
Selenium	0.014	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 21:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 21:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 21:20	7440-62-2	
Zinc	0.0051J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 21:20	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	526	mg/L	10.0	10.0	1		10/14/19 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	2.9	mg/L	1.0	0.024	1		10/15/19 08:37	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/15/19 08:37	16984-48-8	
Sulfate	45.8	mg/L	1.0	0.017	1		10/15/19 08:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWC-14		Lab ID: 2624187006		Collected: 10/08/19 16:30		Received: 10/10/19 13:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 21:32	7440-36-0		
Arsenic	0.0017J	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 21:32	7440-38-2		
Barium	0.085	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 21:32	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 21:32	7440-41-7		
Boron	0.048	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 21:32	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 21:32	7440-43-9		
Calcium	146	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 21:38	7440-70-2		
Chromium	0.00053J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 21:32	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 21:32	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 21:32	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 21:32	7439-93-2		
Molybdenum	0.034	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 21:32	7439-98-7		
Selenium	0.0026J	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 21:32	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 21:32	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 21:32	7440-62-2		
Zinc	0.0052J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 21:32	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	841	mg/L	10.0	10.0	1		10/14/19 11:50			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	40.2	mg/L	1.0	0.024	1		10/16/19 01:26	16887-00-6	M1	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 01:26	16984-48-8		
Sulfate	428	mg/L	50.0	0.85	50		10/16/19 22:49	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWB-4R		Lab ID: 2624187007		Collected: 10/09/19 11:40	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 21:55	7440-36-0		
Arsenic	0.0024J	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 21:55	7440-38-2		
Barium	0.076	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 21:55	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 21:55	7440-41-7		
Boron	5.7	mg/L	2.0	0.25	50	10/14/19 14:35	10/17/19 22:00	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 21:55	7440-43-9		
Calcium	46.7	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 22:00	7440-70-2		
Chromium	0.0020J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 21:55	7440-47-3		
Cobalt	0.0015J	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 21:55	7440-48-4		
Lead	0.00041J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 21:55	7439-92-1		
Lithium	0.013J	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 21:55	7439-93-2		
Molybdenum	0.10	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 21:55	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 21:55	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 21:55	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 21:55	7440-62-2		
Zinc	0.0064J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 21:55	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	502	mg/L	10.0	10.0	1		10/15/19 17:20			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	32.1	mg/L	1.0	0.024	1		10/16/19 02:32	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 02:32	16984-48-8		
Sulfate	38.5	mg/L	10.0	0.17	10		10/16/19 23:11	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-2		Lab ID: 2624187008		Collected: 10/09/19 13:00		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 22:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 22:06	7440-38-2	
Barium	0.050	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 22:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 22:06	7440-41-7	
Boron	0.024J	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 22:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 22:06	7440-43-9	
Calcium	0.18	mg/L	0.10	0.011	1	10/14/19 14:35	10/17/19 22:06	7440-70-2	
Chromium	0.00049J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 22:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 22:06	7440-48-4	
Lead	0.000064J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 22:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 22:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 22:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 22:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 22:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 22:06	7440-62-2	
Zinc	0.0050J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 22:06	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	46.0	mg/L	10.0	10.0	1		10/15/19 17:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.0	mg/L	1.0	0.024	1		10/16/19 02:55	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 02:55	16984-48-8	
Sulfate	10.1	mg/L	1.0	0.017	1		10/16/19 02:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: FB-2-10-9-19		Lab ID: 2624187009		Collected: 10/09/19 13:20		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 22:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 22:18	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 22:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 22:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 22:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 22:18	7440-43-9	
Calcium	0.027J	mg/L	0.10	0.011	1	10/14/19 14:35	10/17/19 22:18	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 22:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 22:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 22:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 22:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 22:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 22:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 22:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 22:18	7440-62-2	
Zinc	0.0049J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 22:18	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/15/19 17:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	0.024	1		10/16/19 03:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 03:17	16984-48-8	
Sulfate	0.13J	mg/L	1.0	0.017	1		10/16/19 03:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWC-20		Lab ID: 2624187010		Collected: 10/09/19 14:25		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 22:23	7440-36-0	
Arsenic	0.35	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 22:23	7440-38-2	
Barium	0.078	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 22:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 22:23	7440-41-7	
Boron	0.79	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 22:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 22:23	7440-43-9	
Calcium	80.1	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 22:29	7440-70-2	
Chromium	0.0011J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 22:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 22:23	7440-48-4	
Lead	0.00018J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 22:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 22:23	7439-93-2	
Molybdenum	0.071	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 22:23	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 22:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 22:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 22:23	7440-62-2	
Zinc	0.0049J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 22:23	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	434	mg/L	10.0	10.0	1		10/15/19 17:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	5.4	mg/L	1.0	0.024	1		10/16/19 03:39	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 03:39	16984-48-8	
Sulfate	58.5	mg/L	10.0	0.17	10		10/16/19 23:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWA-8		Lab ID: 2624187011		Collected: 10/07/19 17:25		Received: 10/10/19 13:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 22:35	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 22:35	7440-38-2		
Barium	0.069	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 22:35	7440-39-3		
Beryllium	0.00024J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 22:35	7440-41-7		
Boron	0.12	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 22:35	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 22:35	7440-43-9		
Calcium	31.6	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 22:41	7440-70-2		
Chromium	0.00052J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 22:35	7440-47-3		
Cobalt	0.00046J	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 22:35	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 22:35	7439-92-1		
Lithium	0.0012J	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 22:35	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 22:35	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 22:35	7782-49-2		
Thallium	0.000062J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 22:35	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 22:35	7440-62-2		
Zinc	0.0077J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 22:35	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	275	mg/L	10.0	10.0	1		10/11/19 11:27			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	18.0	mg/L	1.0	0.024	1		10/16/19 04:01	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 04:01	16984-48-8		
Sulfate	156	mg/L	10.0	0.17	10		10/16/19 23:55	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWA-7 Lab ID: 2624187012 Collected: 10/08/19 09:45 Received: 10/10/19 13:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.015	0.0014	5	10/14/19 14:35	10/17/19 22:58	7440-36-0	D3
Arsenic	0.0030J	mg/L	0.025	0.0018	5	10/14/19 14:35	10/17/19 22:58	7440-38-2	D3
Barium	0.10	mg/L	0.050	0.0024	5	10/14/19 14:35	10/17/19 22:58	7440-39-3	
Beryllium	ND	mg/L	0.015	0.00037	5	10/14/19 14:35	10/17/19 22:58	7440-41-7	D3
Boron	6.4	mg/L	0.20	0.025	5	10/14/19 14:35	10/17/19 22:58	7440-42-8	
Cadmium	ND	mg/L	0.012	0.00057	5	10/14/19 14:35	10/17/19 22:58	7440-43-9	D3
Calcium	3.5	mg/L	0.50	0.055	5	10/14/19 14:35	10/17/19 22:58	7440-70-2	
Chromium	0.021J	mg/L	0.050	0.0020	5	10/14/19 14:35	10/17/19 22:58	7440-47-3	D3
Cobalt	0.0028J	mg/L	0.025	0.0015	5	10/14/19 14:35	10/17/19 22:58	7440-48-4	D3
Lead	0.0098J	mg/L	0.025	0.00023	5	10/14/19 14:35	10/17/19 22:58	7439-92-1	D3
Lithium	ND	mg/L	0.15	0.0039	5	10/14/19 14:35	10/17/19 22:58	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0047	5	10/14/19 14:35	10/17/19 22:58	7439-98-7	D3
Selenium	0.0072J	mg/L	0.050	0.0063	5	10/14/19 14:35	10/17/19 22:58	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00026	5	10/14/19 14:35	10/17/19 22:58	7440-28-0	D3
Vanadium	0.11	mg/L	0.050	0.0035	5	10/14/19 14:35	10/17/19 22:58	7440-62-2	
Zinc	0.095	mg/L	0.050	0.0077	5	10/14/19 14:35	10/17/19 22:58	7440-66-6	B
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	1840	mg/L	10.0	10.0	1		10/14/19 11:51		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	125	mg/L	20.0	0.48	20		10/17/19 00:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 04:23	16984-48-8	
Sulfate	32.8	mg/L	1.0	0.017	1		10/16/19 04:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: FB-1-10-8-19		Lab ID: 2624187013		Collected: 10/08/19 10:40	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 23:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 23:09	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 23:09	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 23:09	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 23:09	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 23:09	7440-43-9		
Calcium	ND	mg/L	0.10	0.011	1	10/14/19 14:35	10/17/19 23:09	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 23:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 23:09	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 23:09	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 23:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 23:09	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 23:09	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 23:09	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 23:09	7440-62-2		
Zinc	0.0044J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 23:09	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	16.0	mg/L	10.0	10.0	1		10/14/19 11:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.038J	mg/L	1.0	0.024	1		10/16/19 04:45	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 04:45	16984-48-8		
Sulfate	0.20J	mg/L	1.0	0.017	1		10/16/19 04:45	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-13		Lab ID: 2624187014		Collected: 10/08/19 11:25		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 23:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 23:15	7440-38-2	
Barium	0.024	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 23:15	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 23:15	7440-41-7	
Boron	0.18	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 23:15	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 23:15	7440-43-9	
Calcium	2.3	mg/L	0.10	0.011	1	10/14/19 14:35	10/17/19 23:15	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 23:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 23:15	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 23:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 23:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 23:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 23:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 23:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 23:15	7440-62-2	
Zinc	0.053	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 23:15	7440-66-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	51.0	mg/L	10.0	10.0	1		10/14/19 11:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	4.0	mg/L	1.0	0.024	1		10/16/19 06:13	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 06:13	16984-48-8	
Sulfate	22.0	mg/L	1.0	0.017	1		10/16/19 06:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWC-11		Lab ID: 2624187015		Collected: 10/08/19 15:15		Received: 10/10/19 13:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00046J	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 23:26	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 23:26	7440-38-2		
Barium	0.13	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 23:26	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 23:26	7440-41-7		
Boron	0.22	mg/L	0.040	0.0049	1	10/14/19 14:35	10/17/19 23:26	7440-42-8		
Cadmium	0.00043J	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 23:26	7440-43-9		
Calcium	69.2	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 23:32	7440-70-2		
Chromium	0.00091J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 23:26	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 23:26	7440-48-4		
Lead	0.00028J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 23:26	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 23:26	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 23:26	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 23:26	7782-49-2		
Thallium	0.000098J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 23:26	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 23:26	7440-62-2		
Zinc	0.0061J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 23:26	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	613	mg/L	10.0	10.0	1		10/14/19 11:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	89.0	mg/L	10.0	0.24	10		10/17/19 00:40	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 06:36	16984-48-8		
Sulfate	310	mg/L	10.0	0.17	10		10/17/19 00:40	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-12		Lab ID: 2624187016		Collected: 10/09/19 09:55	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/17/19 23:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/17/19 23:38	7440-38-2		
Barium	0.019	mg/L	0.010	0.00049	1	10/14/19 14:35	10/17/19 23:38	7440-39-3		
Beryllium	0.00046J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/17/19 23:38	7440-41-7		
Boron	8.2	mg/L	2.0	0.25	50	10/14/19 14:35	10/17/19 23:43	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/17/19 23:38	7440-43-9		
Calcium	54.2	mg/L	5.0	0.55	50	10/14/19 14:35	10/17/19 23:43	7440-70-2		
Chromium	0.00081J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/17/19 23:38	7440-47-3		
Cobalt	0.00094J	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/17/19 23:38	7440-48-4		
Lead	0.000066J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/17/19 23:38	7439-92-1		
Lithium	0.0011J	mg/L	0.030	0.00078	1	10/14/19 14:35	10/17/19 23:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/17/19 23:38	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/17/19 23:38	7782-49-2		
Thallium	0.00014J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/17/19 23:38	7440-28-0		
Vanadium	0.0021J	mg/L	0.010	0.00071	1	10/14/19 14:35	10/17/19 23:38	7440-62-2		
Zinc	0.0057J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/17/19 23:38	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	647	mg/L	10.0	10.0	1		10/15/19 17:20			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	44.1	mg/L	1.0	0.024	1		10/16/19 07:20	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 07:20	16984-48-8		
Sulfate	392	mg/L	50.0	0.85	50		10/17/19 01:02	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: Dup-2		Lab ID: 2624187017		Collected: 10/09/19 00:00	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/18/19 00:01	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/18/19 00:01	7440-38-2		
Barium	0.018	mg/L	0.010	0.00049	1	10/14/19 14:35	10/18/19 00:01	7440-39-3		
Beryllium	0.00055J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/18/19 00:01	7440-41-7		
Boron	8.0	mg/L	2.0	0.25	50	10/14/19 14:35	10/18/19 00:06	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/18/19 00:01	7440-43-9		
Calcium	56.7	mg/L	5.0	0.55	50	10/14/19 14:35	10/18/19 00:06	7440-70-2		
Chromium	0.0010J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/18/19 00:01	7440-47-3		
Cobalt	0.00092J	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/18/19 00:01	7440-48-4		
Lead	0.000060J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/18/19 00:01	7439-92-1		
Lithium	0.0010J	mg/L	0.030	0.00078	1	10/14/19 14:35	10/18/19 00:01	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/18/19 00:01	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/18/19 00:01	7782-49-2		
Thallium	0.00014J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/18/19 00:01	7440-28-0		
Vanadium	0.00099J	mg/L	0.010	0.00071	1	10/14/19 14:35	10/18/19 00:01	7440-62-2		
Zinc	0.0060J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/18/19 00:01	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	705	mg/L	10.0	10.0	1		10/15/19 17:20			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	43.3	mg/L	1.0	0.024	1		10/16/19 07:42	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 07:42	16984-48-8		
Sulfate	433	mg/L	10.0	0.17	10		10/17/19 01:24	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-17		Lab ID: 2624187018		Collected: 10/09/19 11:10		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/18/19 00:12	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/18/19 00:12	7440-38-2	
Barium	0.032	mg/L	0.010	0.00049	1	10/14/19 14:35	10/18/19 00:12	7440-39-3	
Beryllium	0.0018J	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/18/19 00:12	7440-41-7	
Boron	1.3	mg/L	0.040	0.0049	1	10/14/19 14:35	10/18/19 00:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/18/19 00:12	7440-43-9	
Calcium	56.6	mg/L	5.0	0.55	50	10/14/19 14:35	10/18/19 00:18	7440-70-2	
Chromium	0.00081J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/18/19 00:12	7440-47-3	
Cobalt	0.0024J	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/18/19 00:12	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/18/19 00:12	7439-92-1	
Lithium	0.0046J	mg/L	0.030	0.00078	1	10/14/19 14:35	10/18/19 00:12	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00095	1	10/14/19 14:35	10/18/19 00:12	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/18/19 00:12	7782-49-2	
Thallium	0.000076J	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/18/19 00:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/18/19 00:12	7440-62-2	
Zinc	0.011	mg/L	0.010	0.0015	1	10/14/19 14:35	10/18/19 00:12	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	1100	mg/L	10.0	10.0	1		10/15/19 17:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	330	mg/L	100	2.4	100		10/17/19 01:46	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 08:04	16984-48-8	
Sulfate	346	mg/L	100	1.7	100		10/17/19 01:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-22		Lab ID: 2624187019		Collected: 10/09/19 13:18		Received: 10/10/19 13:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:35	10/18/19 00:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:35	10/18/19 00:24	7440-38-2		
Barium	0.065	mg/L	0.010	0.00049	1	10/14/19 14:35	10/18/19 00:24	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:35	10/18/19 00:24	7440-41-7		
Boron	0.39	mg/L	0.040	0.0049	1	10/14/19 14:35	10/18/19 00:24	7440-42-8		
Cadmium	0.00012J	mg/L	0.0025	0.00011	1	10/14/19 14:35	10/18/19 00:24	7440-43-9		
Calcium	30.1	mg/L	5.0	0.55	50	10/14/19 14:35	10/18/19 00:29	7440-70-2		
Chromium	0.00072J	mg/L	0.010	0.00039	1	10/14/19 14:35	10/18/19 00:24	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:35	10/18/19 00:24	7440-48-4		
Lead	0.00032J	mg/L	0.0050	0.000046	1	10/14/19 14:35	10/18/19 00:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:35	10/18/19 00:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:35	10/18/19 00:24	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:35	10/18/19 00:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:35	10/18/19 00:24	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:35	10/18/19 00:24	7440-62-2		
Zinc	0.0079J	mg/L	0.010	0.0015	1	10/14/19 14:35	10/18/19 00:24	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	211	mg/L	10.0	10.0	1		10/15/19 17:21			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	25.3	mg/L	1.0	0.024	1		10/16/19 08:26	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 08:26	16984-48-8		
Sulfate	80.2	mg/L	20.0	0.34	20		10/17/19 02:08	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWB-6R		Lab ID: 2624187020		Collected: 10/09/19 15:13	Received: 10/10/19 13:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.015	0.0014	5	10/14/19 14:35	10/18/19 00:35	7440-36-0	D3	
Arsenic	0.0018J	mg/L	0.025	0.0018	5	10/14/19 14:35	10/18/19 00:35	7440-38-2	D3	
Barium	0.014J	mg/L	0.050	0.0024	5	10/14/19 14:35	10/18/19 00:35	7440-39-3	D3	
Beryllium	ND	mg/L	0.015	0.00037	5	10/14/19 14:35	10/18/19 00:35	7440-41-7	D3	
Boron	6.3	mg/L	0.20	0.025	5	10/14/19 14:35	10/18/19 00:35	7440-42-8		
Cadmium	ND	mg/L	0.012	0.00057	5	10/14/19 14:35	10/18/19 00:35	7440-43-9	D3	
Calcium	10.1	mg/L	0.50	0.055	5	10/14/19 14:35	10/18/19 00:35	7440-70-2		
Chromium	0.011J	mg/L	0.050	0.0020	5	10/14/19 14:35	10/18/19 00:35	7440-47-3	D3	
Cobalt	ND	mg/L	0.025	0.0015	5	10/14/19 14:35	10/18/19 00:35	7440-48-4	D3	
Lead	0.00033J	mg/L	0.025	0.00023	5	10/14/19 14:35	10/18/19 00:35	7439-92-1	D3	
Lithium	ND	mg/L	0.15	0.0039	5	10/14/19 14:35	10/18/19 00:35	7439-93-2	D3	
Molybdenum	ND	mg/L	0.050	0.0047	5	10/14/19 14:35	10/18/19 00:35	7439-98-7	D3	
Selenium	ND	mg/L	0.050	0.0063	5	10/14/19 14:35	10/18/19 00:35	7782-49-2	D3	
Thallium	ND	mg/L	0.0050	0.00026	5	10/14/19 14:35	10/18/19 00:35	7440-28-0	D3	
Vanadium	0.018J	mg/L	0.050	0.0035	5	10/14/19 14:35	10/18/19 00:35	7440-62-2		
Zinc	0.016J	mg/L	0.050	0.0077	5	10/14/19 14:35	10/18/19 00:35	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	903	mg/L	10.0	10.0	1		10/15/19 17:21			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	49.7	mg/L	1.0	0.024	1		10/16/19 08:48	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 08:48	16984-48-8		
Sulfate	255	mg/L	20.0	0.34	20		10/17/19 03:37	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWB-5R		Lab ID: 2624187021		Collected: 10/09/19 16:20		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.015	0.0014	5	10/14/19 14:09	10/16/19 16:28	7440-36-0	
Arsenic	0.0053J	mg/L	0.025	0.0018	5	10/14/19 14:09	10/16/19 16:28	7440-38-2	
Barium	0.13	mg/L	0.050	0.0024	5	10/14/19 14:09	10/16/19 16:28	7440-39-3	
Beryllium	ND	mg/L	0.015	0.00037	5	10/14/19 14:09	10/16/19 16:28	7440-41-7	
Boron	6.8	mg/L	0.20	0.025	5	10/14/19 14:09	10/16/19 16:28	7440-42-8	M1
Cadmium	ND	mg/L	0.012	0.00057	5	10/14/19 14:09	10/16/19 16:28	7440-43-9	
Calcium	17.7	mg/L	0.50	0.055	5	10/14/19 14:09	10/16/19 16:28	7440-70-2	M1
Chromium	0.012J	mg/L	0.050	0.0020	5	10/14/19 14:09	10/16/19 16:28	7440-47-3	B
Cobalt	0.0037J	mg/L	0.025	0.0015	5	10/14/19 14:09	10/16/19 16:28	7440-48-4	
Lead	0.0025J	mg/L	0.025	0.00023	5	10/14/19 14:09	10/16/19 16:28	7439-92-1	
Lithium	ND	mg/L	0.15	0.0039	5	10/14/19 14:09	10/16/19 16:28	7439-93-2	
Molybdenum	ND	mg/L	0.050	0.0047	5	10/14/19 14:09	10/16/19 16:28	7439-98-7	
Selenium	0.0073J	mg/L	0.050	0.0063	5	10/14/19 14:09	10/16/19 16:28	7782-49-2	
Thallium	0.00031J	mg/L	0.0050	0.00026	5	10/14/19 14:09	10/16/19 16:28	7440-28-0	
Vanadium	0.033J	mg/L	0.050	0.0035	5	10/14/19 14:09	10/16/19 16:28	7440-62-2	
Zinc	0.0081J	mg/L	0.050	0.0077	5	10/14/19 14:09	10/16/19 16:28	7440-66-6	B
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/16/19 09:16	10/17/19 10:02	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2010	mg/L	10.0	10.0	1		10/15/19 17:21		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	239	mg/L	10.0	0.24	10		10/17/19 03:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 09:10	16984-48-8	
Sulfate	90.8	mg/L	10.0	0.17	10		10/17/19 03:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: GWC-1 Lab ID: 2624187022 Collected: 10/09/19 15:40 Received: 10/10/19 13:15 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 17:26	7440-36-0	
Arsenic	0.0042J	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 17:26	7440-38-2	
Barium	0.058	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 17:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 17:26	7440-41-7	
Boron	0.93	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 17:26	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 17:26	7440-43-9	
Calcium	51.2	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 17:32	7440-70-2	
Chromium	0.0019J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 17:26	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 17:26	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 17:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 17:26	7439-93-2	
Molybdenum	0.060	mg/L	0.010	0.00095	1	10/14/19 14:09	10/16/19 17:26	7439-98-7	
Selenium	0.0024J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 17:26	7782-49-2	
Thallium	0.000054J	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 17:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 17:26	7440-62-2	
Zinc	0.0057J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 17:26	7440-66-6	B
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	338	mg/L	10.0	10.0	1		10/15/19 17:21		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	7.2	mg/L	1.0	0.024	1		10/16/19 09:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 09:32	16984-48-8	
Sulfate	76.3	mg/L	10.0	0.17	10		10/17/19 04:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Sample: GWC-9		Lab ID: 2624187023		Collected: 10/09/19 12:10		Received: 10/10/19 13:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 17:37	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 17:37	7440-38-2		
Barium	0.18	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 17:37	7440-39-3		
Beryllium	0.00023J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 17:37	7440-41-7		
Boron	0.019J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 17:37	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 17:37	7440-43-9		
Calcium	6.0	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 17:37	7440-70-2		
Chromium	0.00090J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 17:37	7440-47-3	B	
Cobalt	0.00099J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 17:37	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 17:37	7439-92-1		
Lithium	0.0018J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 17:37	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:09	10/16/19 17:37	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 17:37	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 17:37	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 17:37	7440-62-2		
Zinc	0.0054J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 17:37	7440-66-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	128	mg/L	10.0	10.0	1		10/15/19 17:21			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	19.0	mg/L	1.0	0.024	1		10/16/19 11:01	16887-00-6		
Fluoride	0.068J	mg/L	0.30	0.029	1		10/16/19 11:01	16984-48-8		
Sulfate	41.1	mg/L	1.0	0.017	1		10/16/19 11:01	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Sample: EB-2-10-9-19		Lab ID: 2624187024		Collected: 10/09/19 12:30		Received: 10/10/19 13:15		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 17:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 17:49	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 17:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 17:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 17:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 17:49	7440-43-9	
Calcium	0.018J	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 17:49	7440-70-2	
Chromium	0.00041J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 17:49	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 17:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 17:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	10/14/19 14:09	10/16/19 17:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 17:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 17:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 17:49	7440-62-2	
Zinc	0.0054J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 17:49	7440-66-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/15/19 17:21		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	0.042J	mg/L	1.0	0.024	1		10/16/19 11:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 11:23	16984-48-8	
Sulfate	0.23J	mg/L	1.0	0.017	1		10/16/19 11:23	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch:	36917	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
Associated Lab Samples:	2624187021		

METHOD BLANK: 166881 Matrix: Water

Associated Lab Samples: 2624187021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	10/17/19 09:58	

LABORATORY CONTROL SAMPLE: 166882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166883 166884

Parameter	Units	2624187021 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	20		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch: 36893 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2624187001, 2624187002, 2624187003, 2624187004, 2624187005, 2624187006, 2624187007, 2624187008,
 2624187009, 2624187010, 2624187011, 2624187012, 2624187013, 2624187014, 2624187015, 2624187016,
 2624187017, 2624187018, 2624187019, 2624187020

METHOD BLANK: 166795 Matrix: Water

Associated Lab Samples: 2624187001, 2624187002, 2624187003, 2624187004, 2624187005, 2624187006, 2624187007, 2624187008,
 2624187009, 2624187010, 2624187011, 2624187012, 2624187013, 2624187014, 2624187015, 2624187016,
 2624187017, 2624187018, 2624187019, 2624187020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	10/17/19 19:46	
Arsenic	mg/L	ND	0.0050	0.00035	10/17/19 19:46	
Barium	mg/L	ND	0.010	0.00049	10/17/19 19:46	
Beryllium	mg/L	ND	0.0030	0.000074	10/17/19 19:46	
Boron	mg/L	ND	0.040	0.0049	10/17/19 19:46	
Cadmium	mg/L	ND	0.0025	0.00011	10/17/19 19:46	
Calcium	mg/L	ND	0.10	0.011	10/17/19 19:46	
Chromium	mg/L	ND	0.010	0.00039	10/17/19 19:46	
Cobalt	mg/L	ND	0.0050	0.00030	10/17/19 19:46	
Lead	mg/L	ND	0.0050	0.000046	10/17/19 19:46	
Lithium	mg/L	ND	0.030	0.00078	10/17/19 19:46	
Molybdenum	mg/L	ND	0.010	0.00095	10/17/19 19:46	
Selenium	mg/L	ND	0.010	0.0013	10/17/19 19:46	
Thallium	mg/L	ND	0.0010	0.000052	10/17/19 19:46	
Vanadium	mg/L	ND	0.010	0.00071	10/17/19 19:46	
Zinc	mg/L	0.0051J	0.010	0.0015	10/17/19 19:46	

LABORATORY CONTROL SAMPLE: 166796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.089	89	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.090	90	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Calcium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.093	93	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.097	97	80-120	
Zinc	mg/L	0.1	0.099	99	80-120	

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166797		166798		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2624187001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.097	0.095	97	94	75-125	3	20		
Arsenic	mg/L	0.089	0.1	0.1	0.19	0.19	96	104	75-125	4	20		
Barium	mg/L	0.13	0.1	0.1	0.24	0.23	108	101	75-125	3	20		
Beryllium	mg/L	0.000088J	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Boron	mg/L	8.4	1	1	10.5	11.0	212	255	75-125	4	20	M6	
Cadmium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20		
Calcium	mg/L	206	1	1	198	205	-783	-148	75-125	3	20	M6	
Chromium	mg/L	0.00087J	0.1	0.1	0.099	0.099	98	98	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20		
Lead	mg/L	0.00010J	0.1	0.1	0.094	0.096	94	95	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Molybdenum	mg/L	0.20	0.1	0.1	0.30	0.30	100	97	75-125	1	20		
Selenium	mg/L	0.0024J	0.1	0.1	0.10	0.11	100	105	75-125	5	20		
Thallium	mg/L	0.00011J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20		
Zinc	mg/L	0.010	0.1	0.1	0.10	0.10	92	93	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch: 36894 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2624187021, 2624187022, 2624187023, 2624187024

METHOD BLANK: 166799 Matrix: Water
 Associated Lab Samples: 2624187021, 2624187022, 2624187023, 2624187024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	10/16/19 16:16	
Arsenic	mg/L	ND	0.0050	0.00035	10/16/19 16:16	
Barium	mg/L	ND	0.010	0.00049	10/16/19 16:16	
Beryllium	mg/L	ND	0.0030	0.000074	10/16/19 16:16	
Boron	mg/L	ND	0.040	0.0049	10/16/19 16:16	
Cadmium	mg/L	ND	0.0025	0.00011	10/16/19 16:16	
Calcium	mg/L	ND	0.10	0.011	10/16/19 16:16	
Chromium	mg/L	0.00056J	0.010	0.00039	10/16/19 16:16	
Cobalt	mg/L	ND	0.0050	0.00030	10/16/19 16:16	
Lead	mg/L	ND	0.0050	0.000046	10/16/19 16:16	
Lithium	mg/L	ND	0.030	0.00078	10/16/19 16:16	
Molybdenum	mg/L	ND	0.010	0.00095	10/16/19 16:16	
Selenium	mg/L	ND	0.010	0.0013	10/16/19 16:16	
Thallium	mg/L	ND	0.0010	0.000052	10/16/19 16:16	
Vanadium	mg/L	ND	0.010	0.00071	10/16/19 16:16	
Zinc	mg/L	0.0050J	0.010	0.0015	10/16/19 16:16	

LABORATORY CONTROL SAMPLE: 166800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	0.95	95	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	
Vanadium	mg/L	0.1	0.096	96	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166801 166802											
Parameter	Units	2624187021	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Antimony	mg/L	ND	0.1	0.1	0.089	0.097	89	96	75-125	8	20
Arsenic	mg/L	0.0053J	0.1	0.1	0.096	0.098	91	93	75-125	3	20
Barium	mg/L	0.13	0.1	0.1	0.21	0.22	87	96	75-125	4	20
Beryllium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	2	20
Boron	mg/L	6.8	1	1	8.0	7.5	121	71	75-125	6	20 M1
Cadmium	mg/L	ND	0.1	0.1	0.090	0.092	90	92	75-125	2	20
Calcium	mg/L	17.7	1	1	19.4	18.5	163	79	75-125	4	20 M1
Chromium	mg/L	0.012J	0.1	0.1	0.11	0.10	95	91	75-125	4	20
Cobalt	mg/L	0.0037J	0.1	0.1	0.092	0.092	88	88	75-125	0	20
Lead	mg/L	0.0025J	0.1	0.1	0.089	0.091	86	89	75-125	3	20
Lithium	mg/L	ND	0.1	0.1	0.092J	0.092J	92	91	75-125		20
Molybdenum	mg/L	ND	0.1	0.1	0.092	0.10	89	97	75-125	8	20
Selenium	mg/L	0.0073J	0.1	0.1	0.088	0.10	81	95	75-125	15	20
Thallium	mg/L	0.00031J	0.1	0.1	0.088	0.089	87	89	75-125	1	20
Vanadium	mg/L	0.033J	0.1	0.1	0.14	0.14	104	103	75-125	1	20
Zinc	mg/L	0.0081J	0.1	0.1	0.11	0.10	98	93	75-125	6	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch: 36858 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2624187001, 2624187002, 2624187003, 2624187004, 2624187011

LABORATORY CONTROL SAMPLE: 166584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	411	103	84-108	

SAMPLE DUPLICATE: 166585

Parameter	Units	2624021007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	7930	8140	3	10	

SAMPLE DUPLICATE: 166586

Parameter	Units	2624140002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	324	337	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch: 36914 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2624187005, 2624187006, 2624187012, 2624187013, 2624187014, 2624187015

LABORATORY CONTROL SAMPLE: 166870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	366	92	84-108	

SAMPLE DUPLICATE: 166871

Parameter	Units	2624187005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	526	532	1	10	

SAMPLE DUPLICATE: 166872

Parameter	Units	2624140004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0	13.0	32	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624187

QC Batch:	36986	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	2624187007, 2624187008, 2624187009, 2624187010, 2624187016, 2624187017, 2624187018, 2624187019, 2624187020, 2624187021, 2624187022, 2624187023, 2624187024		

LABORATORY CONTROL SAMPLE: 167157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 167158

Parameter	Units	2624142008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	115	101	13	10	D6

SAMPLE DUPLICATE: 167159

Parameter	Units	2624187019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	211	210	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

QC Batch: 36938 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624187001, 2624187002, 2624187003, 2624187004, 2624187005

METHOD BLANK: 166950 Matrix: Water
Associated Lab Samples: 2624187001, 2624187002, 2624187003, 2624187004, 2624187005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.024	10/14/19 21:35	
Fluoride	mg/L	ND	0.30	0.029	10/14/19 21:35	
Sulfate	mg/L	ND	1.0	0.017	10/14/19 21:35	

LABORATORY CONTROL SAMPLE: 166951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.7	97	90-110	
Fluoride	mg/L	10	9.9	99	90-110	
Sulfate	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166952 166953

Parameter	Units	2624142005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	10	10	13.6	13.6	95	95	90-110	0	15	
Fluoride	mg/L	ND	10	10	9.9	9.8	99	98	90-110	1	15	

MATRIX SPIKE SAMPLE: 166954

Parameter	Units	2624142006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.3	10	12.1	97	90-110	
Fluoride	mg/L	ND	10	10.2	102	90-110	
Sulfate	mg/L	279	10	23.4	-2560	90-110 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

QC Batch: 36992 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624187006, 2624187007, 2624187008, 2624187009, 2624187010, 2624187011, 2624187012, 2624187013, 2624187014, 2624187015, 2624187016, 2624187017, 2624187018, 2624187019, 2624187020, 2624187021, 2624187022, 2624187023, 2624187024

METHOD BLANK: 167194 Matrix: Water
Associated Lab Samples: 2624187006, 2624187007, 2624187008, 2624187009, 2624187010, 2624187011, 2624187012, 2624187013, 2624187014, 2624187015, 2624187016, 2624187017, 2624187018, 2624187019, 2624187020, 2624187021, 2624187022, 2624187023, 2624187024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.024	10/16/19 00:42	
Fluoride	mg/L	ND	0.30	0.029	10/16/19 00:42	
Sulfate	mg/L	ND	1.0	0.017	10/16/19 00:42	

LABORATORY CONTROL SAMPLE: 167195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.0	100	90-110	
Fluoride	mg/L	10	10.3	103	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 167196 167197

Parameter	Units	2624187006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	40.2	10	10	44.8	44.5	47	43	90-110	1	15	M1
Fluoride	mg/L	ND	10	10	10.1	10.4	101	104	90-110	3	15	

MATRIX SPIKE SAMPLE: 167198

Parameter	Units	2624187015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	10	10.4	104	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| B | Analyte was detected in the associated method blank. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624187001	Dup-1	EPA 3005A	36893	EPA 6020B	36929
2624187002	EB-1-10-8-19	EPA 3005A	36893	EPA 6020B	36929
2624187003	GWC-16	EPA 3005A	36893	EPA 6020B	36929
2624187004	GWC-21	EPA 3005A	36893	EPA 6020B	36929
2624187005	GWC-15	EPA 3005A	36893	EPA 6020B	36929
2624187006	GWC-14	EPA 3005A	36893	EPA 6020B	36929
2624187007	GWB-4R	EPA 3005A	36893	EPA 6020B	36929
2624187008	GWC-2	EPA 3005A	36893	EPA 6020B	36929
2624187009	FB-2-10-9-19	EPA 3005A	36893	EPA 6020B	36929
2624187010	GWC-20	EPA 3005A	36893	EPA 6020B	36929
2624187011	GWA-8	EPA 3005A	36893	EPA 6020B	36929
2624187012	GWA-7	EPA 3005A	36893	EPA 6020B	36929
2624187013	FB-1-10-8-19	EPA 3005A	36893	EPA 6020B	36929
2624187014	GWC-13	EPA 3005A	36893	EPA 6020B	36929
2624187015	GWC-11	EPA 3005A	36893	EPA 6020B	36929
2624187016	GWC-12	EPA 3005A	36893	EPA 6020B	36929
2624187017	Dup-2	EPA 3005A	36893	EPA 6020B	36929
2624187018	GWC-17	EPA 3005A	36893	EPA 6020B	36929
2624187019	GWC-22	EPA 3005A	36893	EPA 6020B	36929
2624187020	GWB-6R	EPA 3005A	36893	EPA 6020B	36929
2624187021	GWB-5R	EPA 3005A	36894	EPA 6020B	36932
2624187022	GWC-1	EPA 3005A	36894	EPA 6020B	36932
2624187023	GWC-9	EPA 3005A	36894	EPA 6020B	36932
2624187024	EB-2-10-9-19	EPA 3005A	36894	EPA 6020B	36932
2624187021	GWB-5R	EPA 7470A	36917	EPA 7470A	37089
2624187001	Dup-1	SM 2540C	36858		
2624187002	EB-1-10-8-19	SM 2540C	36858		
2624187003	GWC-16	SM 2540C	36858		
2624187004	GWC-21	SM 2540C	36858		
2624187005	GWC-15	SM 2540C	36914		
2624187006	GWC-14	SM 2540C	36914		
2624187007	GWB-4R	SM 2540C	36986		
2624187008	GWC-2	SM 2540C	36986		
2624187009	FB-2-10-9-19	SM 2540C	36986		
2624187010	GWC-20	SM 2540C	36986		
2624187011	GWA-8	SM 2540C	36858		
2624187012	GWA-7	SM 2540C	36914		
2624187013	FB-1-10-8-19	SM 2540C	36914		
2624187014	GWC-13	SM 2540C	36914		
2624187015	GWC-11	SM 2540C	36914		
2624187016	GWC-12	SM 2540C	36986		
2624187017	Dup-2	SM 2540C	36986		
2624187018	GWC-17	SM 2540C	36986		
2624187019	GWC-22	SM 2540C	36986		
2624187020	GWB-6R	SM 2540C	36986		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624187

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624187021	GWB-5R	SM 2540C	36986		
2624187022	GWC-1	SM 2540C	36986		
2624187023	GWC-9	SM 2540C	36986		
2624187024	EB-2-10-9-19	SM 2540C	36986		
2624187001	Dup-1	EPA 300.0	36938		
2624187002	EB-1-10-8-19	EPA 300.0	36938		
2624187003	GWC-16	EPA 300.0	36938		
2624187004	GWC-21	EPA 300.0	36938		
2624187005	GWC-15	EPA 300.0	36938		
2624187006	GWC-14	EPA 300.0	36992		
2624187007	GWB-4R	EPA 300.0	36992		
2624187008	GWC-2	EPA 300.0	36992		
2624187009	FB-2-10-9-19	EPA 300.0	36992		
2624187010	GWC-20	EPA 300.0	36992		
2624187011	GWA-8	EPA 300.0	36992		
2624187012	GWA-7	EPA 300.0	36992		
2624187013	FB-1-10-8-19	EPA 300.0	36992		
2624187014	GWC-13	EPA 300.0	36992		
2624187015	GWC-11	EPA 300.0	36992		
2624187016	GWC-12	EPA 300.0	36992		
2624187017	Dup-2	EPA 300.0	36992		
2624187018	GWC-17	EPA 300.0	36992		
2624187019	GWC-22	EPA 300.0	36992		
2624187020	GWB-6R	EPA 300.0	36992		
2624187021	GWB-5R	EPA 300.0	36992		
2624187022	GWC-1	EPA 300.0	36992		
2624187023	GWC-9	EPA 300.0	36992		
2624187024	EB-2-10-9-19	EPA 300.0	36992		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 3

CLIENT NAME: Georgia Power		CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		REPORT TO: <i>C. Perry</i>		CC:		PO #:	
PROJECT NAME/STATE: Plant Kraft Grumman Road		PROJECT #:							
Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION	CONTAINER TYPE:	PRESERVATION:	ANALYSIS REQUESTED	LAB #
10-8-19	1615	GW	X	X	DUP-1	# of	3	Metals App. III Boron, Calcium G1, T, SO ₄ & TDS (EPA 300.0 & SM 2540C)	1385
10-8-19	1230	W	X	X	EB-1-10-8-19	# of	7	Detected App IV Metals: (see list below)	1385
10-8-19	1425	GW	X	X	GWC-16	# of	7	Detected App IV Metals: (see list below)	1385
10-8-19	1525	GW	X	X	GWC-21	# of	7	Detected App IV Metals: (see list below)	1385
10-8-19	1630	GW	X	X	GWC-15	# of	7	Detected App IV Metals: (see list below)	1385
10-9-19	0824	GW	X	X	GWB-4R	# of	7	Detected App IV Metals: (see list below)	1385
10-9-19	1140	GW	X	X	GWB-4R	# of	7	Detected App IV Metals: (see list below)	1385
10-9-19	1300	GW	X	X	GWC-2	# of	7	Detected App IV Metals: (see list below)	1385
10-9-19	1320	W	X	X	FB-2-10-9-19	# of	7	Detected App IV Metals: (see list below)	1385
10-9-19	1425	GW	X	X	Ball-20	# of	7	Detected App IV Metals: (see list below)	1385
SAMPLED BY AND TITLE: O. FURQUEA (ACC)		DATE/TIME: 10-9-19 1425		RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 10/10/19 1345		FOR LAB USE ONLY	
RECEIVED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		LAB #:	
RECEIVED BY LAB: <i>[Signature]</i>		DATE/TIME: 10/10/19 1345		SAMPLE SHIPPED VIA: UPS		FED-EX		USPS	
Tempatures: Yes No NA		Mnt: 0.4 Max		COURIER		CLIENT		OTHER	
Yes No NA		Mnt: 0.4 Max		COURIER		CLIENT		OTHER	

NO#: 2624187



2624187

Detected App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, a.
 State Metals: As, Ba, Cr, Pb, Sb, Se, V, Zn



Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 2 OF 3

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-508-7239
REPORT TO: *Spina@pac.net* CC:
REQUESTED COMPLETION DATE: PO #:
PROJECT NAME/STATE: Plant Kraft Grumman Road
PROJECT #:

CONTAINER TYPE	ANALYSIS REQUESTED							CONTAINER TYPE	PRESERVATION
	P	P	P	P	P	P	P		
# of	3	7							
Metal App. III Boron, Calcium	✓								
Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	✓								
Detected App IV: Radium 226 & 228 (SW-646 8315/8320)	✓								
Detected App IV Metals: (see list below)	✓								
State Metals (see below)	✓								

CONTAINER TYPE	REMARKS/ADDITIONAL INFORMATION
P - PLASTIC	
A - AMBER GLASS	
G - CLEAR GLASS	
V - VOA VIAL	
S - STERILE	
O - OTHER	
DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

LAB #:
DATE/TIME: 10-9-19 1620
RECEIVED BY: *H. Auld (Acc)*
DATE/TIME: 10-9-19 1620
RECEIVED BY LAB: *Madalman*
DATE/TIME: 10/10/19 1345
RECEIVED BY: *Madalman*
DATE/TIME: 10/10/19 1345
SAMPLE SHIPPED VIA: UPS
DATE/TIME: 10-9-19 1620
DATE/TIME: 10-9-19 1620
TEMPERATURE: 0.4 Min: Max:
of Coolers: 0
CLIENT: *Madalman*
OTHER FS: *Madalman*
COURIER: *Madalman*
of Containers: 0
STATUS: Intact Broken Not Present

WO#: 2624187

PH: 8M Due Date: 10/17/19
CLIENT: GAPower-CCR



Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 3 OF 3

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239

REPORT TO: *epers@ge.com* CC:
 REQUESTED COMPLETION DATE: PO #:

PROJECT NAME/STATE: Plant Kraft Grumman Road

PROJECT #:

CONTAINER TYPE	ANALYSIS REQUESTED							CONTAINER TYPE	PRESERVATION
	P	P	P	P	P	P	P		
# of	3	7	7	7	7	7	7	P - PLASTIC	1 - HCl, 56°C
C O N T A I N E R S	Metals App. III Boron, Calcium	CI, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Detected App IV: Radium 226 & 228 (SW-846 9315/9320)	Detected App IV Metals: (see list below)	Detected App IV Metals: (see list below)	State Metals (see below)		A - AMBER GLASS	2 - H ₂ SO ₄ , 56°C
								G - CLEAR GLASS	3 - HNO ₃
								V - VOA VIAL	4 - NaOH, 56°C
								S - STERILE	5 - NaOH/ZnAc, 56°C
								O - OTHER	6 - Na ₂ S ₂ O ₃ , 56°C
									7 - 56°C not frozen

*MATRIX CODES:
 DW - DRINKING WATER S - SOIL
 WW - WASTEWATER SL - SLUDGE
 GW - GROUNDWATER SD - SOLID
 SW - SURFACE WATER A - AIR
 ST - STORM WATER L - LIQUID
 W - WATER P - PRODUCT

REMARKS/ADDITIONAL INFORMATION
 App III and detected App IV

FOR LAB USE ONLY

LAB #:

RELINQUISHED BY: *H. Bell* DATE/TIME: 10/10/19 1345
 RELINQUISHED BY: DATE/TIME:

SAMPLED BY AND TITLE: *O. FURUEA (ACC)* DATE/TIME: 10-9-19 1540
 RECEIVED BY: DATE/TIME:

RECEIVED BY LAB: *Maalman* DATE/TIME: 10/10/19 1345
 SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER CLIENT OTHER FS
 # of Coolers: 0 Broken Not Present

WO#: 2624187

PH: BM Due Date: 10/17/19
 CLIENT: GAPower-CCR

Detected App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, and State Metals: As, Ba, Cr, Pb, Sb, Se, V, Zn



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

WO#: **2624187**

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

PM: **BM**

Due Date: **10/17/19**

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

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.4

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 10/10/19 ma

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

November 20, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

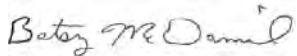
RE: Project: Plant Kraft - Grumman Road
Pace Project No.: 2624188

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624188001	Dup-1	Water	10/08/19 00:00	10/10/19 13:45
2624188002	EB-1-10-8-19	Water	10/08/19 16:15	10/10/19 13:45
2624188003	GWC-16	Water	10/08/19 12:30	10/10/19 13:45
2624188004	GWC-21	Water	10/08/19 14:25	10/10/19 13:45
2624188005	GWC-15	Water	10/08/19 15:25	10/10/19 13:45
2624188006	GWC-14	Water	10/08/19 16:30	10/10/19 13:45
2624188007	GWB-4R	Water	10/09/19 11:40	10/10/19 13:45
2624188008	GWC-2	Water	10/09/19 13:00	10/10/19 13:45
2624188009	FB-2-10-9-19	Water	10/09/19 13:20	10/10/19 13:45
2624188010	GWC-20	Water	10/09/19 14:25	10/10/19 13:45
2624188011	GWA-8	Water	10/07/19 17:25	10/10/19 13:45
2624188012	GWA-7	Water	10/08/19 09:45	10/10/19 13:45
2624188013	FB-1-10-8-19	Water	10/08/19 10:40	10/10/19 13:45
2624188014	GWC-13	Water	10/08/19 11:25	10/10/19 13:45
2624188015	GWC-11	Water	10/08/19 15:15	10/10/19 13:45
2624188016	GWC-12	Water	10/09/19 09:55	10/10/19 13:45
2624188017	Dup-2	Water	10/09/19 00:00	10/10/19 13:45
2624188018	GWC-17	Water	10/09/19 11:10	10/10/19 13:45
2624188019	GWC-22	Water	10/09/19 13:18	10/10/19 13:45
2624188020	GWB-6R	Water	10/09/19 15:13	10/10/19 13:45
2624188021	GWB-5R	Water	10/09/19 16:20	10/10/19 13:45
2624188022	GWC-1	Water	10/09/19 15:40	10/10/19 13:45
2624188023	GWC-9	Water	10/09/19 12:10	10/10/19 13:45
2624188024	EB-2-10-9-19	Water	10/09/19 12:30	10/10/19 13:45

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624188

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2624188001	Dup-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188002	EB-1-10-8-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188003	GWC-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188004	GWC-21	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188005	GWC-15	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188006	GWC-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188007	GWB-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188008	GWC-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188009	FB-2-10-9-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188010	GWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188011	GWA-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188012	GWA-7	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624188013	FB-1-10-8-19	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624188

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2624188014	GWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188015	GWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188016	GWC-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188017	Dup-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188018	GWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188019	GWC-22	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188020	GWB-6R	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188021	GWB-5R	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188022	GWC-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188023	GWC-9	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2624188024	EB-2-10-9-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.40 ± 0.391 (0.281) C:98% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.422 ± 0.462 (0.968) C:69% T:74%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	1.82 ± 0.853 (1.25)	pCi/L	11/05/19 14:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: EB-1-10-8-19 **Lab ID: 2624188002** Collected: 10/08/19 16:15 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.402 ± 0.220 (0.336) C:96% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.129 ± 0.382 (0.861) C:68% T:73%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	0.531 ± 0.602 (1.20)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-16 **Lab ID: 2624188003** Collected: 10/08/19 12:30 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.17 ± 0.350 (0.273) C:98% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.715 ± 0.388 (0.688) C:74% T:83%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	1.89 ± 0.738 (0.961)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-21 **Lab ID: 2624188004** Collected: 10/08/19 14:25 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.28 ± 0.368 (0.269) C:98% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.597 ± 0.406 (0.772) C:71% T:74%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	1.88 ± 0.774 (1.04)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-15 **Lab ID: 2624188005** Collected: 10/08/19 15:25 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.882 ± 0.301 (0.286) C:100% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.639 ± 0.379 (0.691) C:70% T:86%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	1.52 ± 0.680 (0.977)	pCi/L	11/05/19 14:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-14 **Lab ID: 2624188006** Collected: 10/08/19 16:30 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.684 ± 0.264 (0.260) C:95% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.721 ± 0.474 (0.896) C:59% T:80%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	1.41 ± 0.738 (1.16)	pCi/L	11/05/19 14:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWB-4R **Lab ID: 2624188007** Collected: 10/09/19 11:40 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.61 ± 0.435 (0.331) C:95% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.558 ± 0.466 (0.946) C:72% T:79%	pCi/L	11/01/19 15:46	15262-20-1	
Total Radium	Total Radium Calculation	2.17 ± 0.901 (1.28)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-2 **Lab ID: 2624188008** Collected: 10/09/19 13:00 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.220 ± 0.191 (0.362) C:92% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	-0.833 ± 0.475 (1.18) C:67% T:83%	pCi/L	11/01/19 15:46	15262-20-1	
Total Radium	Total Radium Calculation	0.220 ± 0.666 (1.54)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: FB-2-10-9-19 **Lab ID: 2624188009** Collected: 10/09/19 13:20 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.462 ± 0.211 (0.235) C:95% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	-0.173 ± 0.299 (0.731) C:72% T:92%	pCi/L	11/01/19 15:46	15262-20-1	
Total Radium	Total Radium Calculation	0.462 ± 0.510 (0.966)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-20 **Lab ID: 2624188010** Collected: 10/09/19 14:25 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.25 ± 0.383 (0.358) C:91% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	1.03 ± 0.563 (1.04) C:71% T:78%	pCi/L	11/01/19 16:20	15262-20-1	
Total Radium	Total Radium Calculation	2.28 ± 0.946 (1.40)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWA-8 **Lab ID: 2624188011** Collected: 10/07/19 17:25 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.66 ± 0.438 (0.307) C:95% T:NA	pCi/L	11/04/19 08:37	13982-63-3	
Radium-228	EPA 9320	1.17 ± 0.536 (0.912) C:69% T:83%	pCi/L	11/04/19 12:58	15262-20-1	
Total Radium	Total Radium Calculation	2.83 ± 0.974 (1.22)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWA-7 **Lab ID: 2624188012** Collected: 10/08/19 09:45 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	32.3 ± 4.86 (0.298) C:98% T:NA	pCi/L	11/18/19 17:53	13982-63-3	
Radium-228	EPA 9320	1.52 ± 0.681 (1.15) C:70% T:86%	pCi/L	11/04/19 13:43	15262-20-1	
Total Radium	Total Radium Calculation	33.8 ± 5.54 (1.45)	pCi/L	11/20/19 14:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.654 ± 0.262 (0.274) C:89% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	0.485 ± 0.409 (0.820) C:69% T:93%	pCi/L	11/04/19 13:43	15262-20-1	
Total Radium	Total Radium Calculation	1.14 ± 0.671 (1.09)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-13 **Lab ID: 2624188014** Collected: 10/08/19 11:25 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.792 ± 0.289 (0.273) C:90% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	0.830 ± 0.529 (1.01) C:70% T:86%	pCi/L	11/04/19 13:43	15262-20-1	
Total Radium	Total Radium Calculation	1.62 ± 0.818 (1.28)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-11 **Lab ID: 2624188015** Collected: 10/08/19 15:15 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.31 ± 0.704 (0.235) C:89% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	3.08 ± 0.862 (1.01) C:72% T:82%	pCi/L	11/04/19 13:44	15262-20-1	
Total Radium	Total Radium Calculation	6.39 ± 1.57 (1.25)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-12 **Lab ID: 2624188016** Collected: 10/09/19 09:55 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.884 ± 0.326 (0.366) C:91% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	2.23 ± 0.691 (0.884) C:67% T:88%	pCi/L	11/04/19 13:44	15262-20-1	
Total Radium	Total Radium Calculation	3.11 ± 1.02 (1.25)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.895 ± 0.311 (0.275) C:91% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	2.26 ± 0.706 (0.930) C:67% T:84%	pCi/L	11/04/19 12:59	15262-20-1	
Total Radium	Total Radium Calculation	3.16 ± 1.02 (1.21)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-17 **Lab ID: 2624188018** Collected: 10/09/19 11:10 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.36 ± 0.383 (0.176) C:96% T:NA	pCi/L	11/04/19 08:45	13982-63-3	
Radium-228	EPA 9320	1.55 ± 0.610 (0.954) C:69% T:86%	pCi/L	11/04/19 13:44	15262-20-1	
Total Radium	Total Radium Calculation	2.91 ± 0.993 (1.13)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-22 **Lab ID: 2624188019** Collected: 10/09/19 13:18 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.65 ± 0.436 (0.247) C:93% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	2.03 ± 0.729 (1.09) C:67% T:74%	pCi/L	11/04/19 13:00	15262-20-1	
Total Radium	Total Radium Calculation	3.68 ± 1.17 (1.34)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWB-6R **Lab ID: 2624188020** Collected: 10/09/19 15:13 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.01 ± 0.798 (0.221) C:95% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	1.44 ± 0.640 (1.05) C:67% T:82%	pCi/L	11/04/19 13:00	15262-20-1	
Total Radium	Total Radium Calculation	5.45 ± 1.44 (1.27)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWB-5R **Lab ID: 2624188021** Collected: 10/09/19 16:20 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.90 ± 0.947 (0.348) C:92% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	2.33 ± 0.782 (1.08) C:65% T:86%	pCi/L	11/04/19 13:00	15262-20-1	
Total Radium	Total Radium Calculation	7.23 ± 1.73 (1.43)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-1 **Lab ID: 2624188022** Collected: 10/09/19 15:40 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.11 ± 0.339 (0.202) C:94% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	2.02 ± 0.724 (1.08) C:67% T:76%	pCi/L	11/04/19 13:00	15262-20-1	
Total Radium	Total Radium Calculation	3.13 ± 1.06 (1.28)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: GWC-9 **Lab ID: 2624188023** Collected: 10/09/19 12:10 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.46 ± 0.412 (0.294) C:90% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	1.63 ± 0.584 (0.861) C:68% T:87%	pCi/L	11/04/19 13:00	15262-20-1	
Total Radium	Total Radium Calculation	3.09 ± 0.996 (1.16)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Sample: EB-2-10-9-19 **Lab ID: 2624188024** Collected: 10/09/19 12:30 Received: 10/10/19 13:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.385 ± 0.203 (0.261) C:94% T:NA	pCi/L	11/04/19 08:50	13982-63-3	
Radium-228	EPA 9320	1.40 ± 0.551 (0.840) C:70% T:83%	pCi/L	11/04/19 13:43	15262-20-1	
Total Radium	Total Radium Calculation	1.79 ± 0.754 (1.10)	pCi/L	11/05/19 14:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

QC Batch: 366966

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2624188001, 2624188002, 2624188003, 2624188004, 2624188005, 2624188006, 2624188007, 2624188008, 2624188009, 2624188010

METHOD BLANK: 1780028

Matrix: Water

Associated Lab Samples: 2624188001, 2624188002, 2624188003, 2624188004, 2624188005, 2624188006, 2624188007, 2624188008, 2624188009, 2624188010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.371 ± 0.194 (0.239) C:96% T:NA	pCi/L	11/04/19 08:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

QC Batch:	366971	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2624188011, 2624188012, 2624188013, 2624188014, 2624188015, 2624188016, 2624188017, 2624188018, 2624188019, 2624188020, 2624188021, 2624188022, 2624188023, 2624188024		

METHOD BLANK:	1780043	Matrix:	Water
Associated Lab Samples:	2624188011, 2624188012, 2624188013, 2624188014, 2624188015, 2624188016, 2624188017, 2624188018, 2624188019, 2624188020, 2624188021, 2624188022, 2624188023, 2624188024		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.327 (0.672) C:75% T:91%	pCi/L	11/04/19 13:01	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

QC Batch:	366967	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2624188001, 2624188002, 2624188003, 2624188004, 2624188005, 2624188006, 2624188007, 2624188008, 2624188009, 2624188010		

METHOD BLANK:	1780030	Matrix:	Water
Associated Lab Samples:	2624188001, 2624188002, 2624188003, 2624188004, 2624188005, 2624188006, 2624188007, 2624188008, 2624188009, 2624188010		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0313 ± 0.302 (0.696) C:73% T:90%	pCi/L	11/01/19 12:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

QC Batch:	366969	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	2624188011, 2624188013, 2624188014, 2624188015, 2624188016, 2624188017, 2624188018, 2624188019, 2624188020, 2624188021, 2624188022, 2624188023, 2624188024		

METHOD BLANK:	1780037	Matrix:	Water
Associated Lab Samples:	2624188011, 2624188013, 2624188014, 2624188015, 2624188016, 2624188017, 2624188018, 2624188019, 2624188020, 2624188021, 2624188022, 2624188023, 2624188024		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.340 ± 0.211 (0.351) C:96% T:NA	pCi/L	11/04/19 08:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

QC Batch: 370852

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2624188012

METHOD BLANK: 1799486

Matrix: Water

Associated Lab Samples: 2624188012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.487 ± 0.286 (0.389) C:88% T:NA	pCi/L	11/19/19 08:38	

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QUALIFIERS

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road
Pace Project No.: 2624188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624188001	Dup-1	EPA 9315	366966		
2624188002	EB-1-10-8-19	EPA 9315	366966		
2624188003	GWC-16	EPA 9315	366966		
2624188004	GWC-21	EPA 9315	366966		
2624188005	GWC-15	EPA 9315	366966		
2624188006	GWC-14	EPA 9315	366966		
2624188007	GWB-4R	EPA 9315	366966		
2624188008	GWC-2	EPA 9315	366966		
2624188009	FB-2-10-9-19	EPA 9315	366966		
2624188010	GWC-20	EPA 9315	366966		
2624188011	GWA-8	EPA 9315	366969		
2624188012	GWA-7	EPA 9315	370852		
2624188013	FB-1-10-8-19	EPA 9315	366969		
2624188014	GWC-13	EPA 9315	366969		
2624188015	GWC-11	EPA 9315	366969		
2624188016	GWC-12	EPA 9315	366969		
2624188017	Dup-2	EPA 9315	366969		
2624188018	GWC-17	EPA 9315	366969		
2624188019	GWC-22	EPA 9315	366969		
2624188020	GWB-6R	EPA 9315	366969		
2624188021	GWB-5R	EPA 9315	366969		
2624188022	GWC-1	EPA 9315	366969		
2624188023	GWC-9	EPA 9315	366969		
2624188024	EB-2-10-9-19	EPA 9315	366969		
2624188001	Dup-1	EPA 9320	366967		
2624188002	EB-1-10-8-19	EPA 9320	366967		
2624188003	GWC-16	EPA 9320	366967		
2624188004	GWC-21	EPA 9320	366967		
2624188005	GWC-15	EPA 9320	366967		
2624188006	GWC-14	EPA 9320	366967		
2624188007	GWB-4R	EPA 9320	366967		
2624188008	GWC-2	EPA 9320	366967		
2624188009	FB-2-10-9-19	EPA 9320	366967		
2624188010	GWC-20	EPA 9320	366967		
2624188011	GWA-8	EPA 9320	366971		
2624188012	GWA-7	EPA 9320	366971		
2624188013	FB-1-10-8-19	EPA 9320	366971		
2624188014	GWC-13	EPA 9320	366971		
2624188015	GWC-11	EPA 9320	366971		
2624188016	GWC-12	EPA 9320	366971		
2624188017	Dup-2	EPA 9320	366971		
2624188018	GWC-17	EPA 9320	366971		
2624188019	GWC-22	EPA 9320	366971		
2624188020	GWB-6R	EPA 9320	366971		
2624188021	GWB-5R	EPA 9320	366971		
2624188022	GWC-1	EPA 9320	366971		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Kraft - Grumman Road

Pace Project No.: 2624188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624188023	GWC-9	EPA 9320	366971		
2624188024	EB-2-10-9-19	EPA 9320	366971		
2624188001	Dup-1	Total Radium Calculation	369493		
2624188002	EB-1-10-8-19	Total Radium Calculation	369493		
2624188003	GWC-16	Total Radium Calculation	369493		
2624188004	GWC-21	Total Radium Calculation	369493		
2624188005	GWC-15	Total Radium Calculation	369493		
2624188006	GWC-14	Total Radium Calculation	369493		
2624188007	GWB-4R	Total Radium Calculation	369493		
2624188008	GWC-2	Total Radium Calculation	369493		
2624188009	FB-2-10-9-19	Total Radium Calculation	369493		
2624188010	GWC-20	Total Radium Calculation	369493		
2624188011	GWA-8	Total Radium Calculation	369493		
2624188012	GWA-7	Total Radium Calculation	371954		
2624188013	FB-1-10-8-19	Total Radium Calculation	369493		
2624188014	GWC-13	Total Radium Calculation	369493		
2624188015	GWC-11	Total Radium Calculation	369493		
2624188016	GWC-12	Total Radium Calculation	369493		
2624188017	Dup-2	Total Radium Calculation	369495		
2624188018	GWC-17	Total Radium Calculation	369495		
2624188019	GWC-22	Total Radium Calculation	369495		
2624188020	GWB-6R	Total Radium Calculation	369495		
2624188021	GWB-5R	Total Radium Calculation	369495		
2624188022	GWC-1	Total Radium Calculation	369495		
2624188023	GWC-9	Total Radium Calculation	369495		
2624188024	EB-2-10-9-19	Total Radium Calculation	369495		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-508-7239
 REPORT TO: *Cherry Carter* CC: PO #: PROJECT NAME/STATE: Plant Kraft Grumman Road PROJECT #: ANALYSIS REQUESTED: P 3 P 7 P 7 P 7 P 7 P 7 PRESERVATION: # of CONTAINERS: C O N T A I N E R S →

CONTAINER TYPE	PRESERVATION	# of	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION
L	P - PLASTIC	4	State Metals (see below)	L	P - PLASTIC
A	A - AMBER GLASS	4	Detected App IV Metals: (see list below)	A	A - AMBER GLASS
B	G - CLEAR GLASS	4	Detected App IV: Radium 226 & 228 (SW-846 9315/9320)	B	G - CLEAR GLASS
I	V - VOA VIAL	4	G, F, SO, & TDS (EPA 300.0 & SM 2540C)	I	V - VOA VIAL
D	S - STERILE	4	Boron, Calcium Metals App. III	D	S - STERILE
N	O - OTHER	4		N	O - OTHER
U		4		U	
M		4		M	
B		4		B	
E		4		E	
R		4		R	

REMARKS/ADDITIONAL INFORMATION: App III and detected App IV

NO#: 2624188

LAB #: 2624186

RELINQUISHED BY: *[Signature]* DATE/TIME: 10/10/19 1345

RECEIVED BY: *[Signature]* DATE/TIME: 10-9-19 1425

SAMPLE SHIPPED VIA: UPS (Intact) FEDEX (Intact) USPS (Not Present) COURIER (Broken) OTHER (Intact) CLIENT (Intact) FS (Intact)

RECEIVED BY LAB: *[Signature]* DATE/TIME: 10/10/19 1345

TEMPERATURE: 76.5

Yes No NA

Detected App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, and Thallium
 State Metals: As, Ba, Cr, Pb, Sb, Se, V, Zn



Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 2 OF 3

CLIENT NAME: Georgia Power		CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308		PROJECT NAME/STATE: Plant Kraft Grumman Road		PROJECT #:	
REPORT TO: Brynnolic.net		REQUESTED COMPLETION DATE:		PROJECT #:		PROJECT #:	
CONTAINER TYPE: PRESERVATION: # of		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION	CONTAINER TYPE	PRESERVATION
10-7-19	1725	GW	✓	✓	GWA-3	P	1-HCl, 56°C
10-8-19	0945	GW	✓	✓	GWA-7	A	2-H ₂ SO ₄ , 56°C
10-8-19	1040	GW	✓	✓	FA-10-FB-1-10-8-19	G	3-HNO ₃
10-8-19	1125	GW	✓	✓	GWC-13	V	4-NaOH, 56°C
10-8-19	1515	GW	✓	✓	GWC-11	S	5-NaOH/ZnAc, 56°C
10-9-19	0955	GW	✓	✓	GWC-12	O	6-Na ₂ S ₂ O ₃ , 56°C
---	---	GW	✓	✓	DUP-2		7-56°C not frozen
10-9-19	1110	GW	✓	✓	GWL-17		
10-9-19	1318	GW	✓	✓	GWC-22		
10-9-19	1513	GW	✓	✓	GWB-6R		
10-9-19	1620	GW	✓	✓	GWB-5R		
SAMPLED BY AND TITLE: H. Auld (pic)		DATE/TIME: 10-9-19 1620		RELINQUISHED BY: H. Auld		DATE/TIME: 10/10/19 1345	
RECEIVED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:	
RECEIVED BY LAB: Kraft Grumman		DATE/TIME: 10/10/19 1345		RELINQUISHED BY:		DATE/TIME:	
pH checked: 166		No NA (pic) No NA (pic) Min: 0.4 Max		SAMPLE SHIPPED VIA: UPS		FED-EX	
Temp checked:		No NA (pic) No NA (pic) Min: 0.4 Max		USPS		Not Present	
COURIER		# of Coolers		CLIENT		OTHER FS	
Tracking #:		Cover ID:		CLIENT		OTHER FS	

W0#: 2624188

PH: BH Due Date: 11/07/19
CLIENT: GAPower-CCR

FOR LAB USE ONLY

LAB #:
Entered into LIMS:
Tracking #:

Detected App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Molybdenum, Selenium, and Thallium
State Metals: As, Ba, Cr, Pb, Sb, Se, V, Zn



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CHAIN OF CUSTODY RECORD

PAGE: 3 OF 3

CLIENT NAME: Georgia Power
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE 810185 Atlanta, GA 30308 404-506-7239
REPORT TO: *eper@ep.com* CC: PO #:
REQUESTED COMPLETION DATE:
PROJECT NAME/STATE: Plant Kraft Grumman Road
PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	C O M P	Sample Identification	Metals App. III	CL, F, SO, & TDS (EPA 300.0 & SM 2540C)	Detected App IV: Radium 226 & 228 (SW-846 8315/8320)	Detected App IV Metals: (see list below)	State Metals (see below)	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION	# of CONTAINERS
10-9-19	1540	GW	X	GW-1	✓	✓	✓	✓	✓	Metals App. III	3	7	7
10-9-19	1710	GW	X	GW-9	✓	✓	✓	✓	✓	Metals App. III	3	7	7
10-9-19	1730	W	X	EB-2-10-9-19	✓	✓	✓	✓	✓	Metals App. III	3	7	7

CONTAINER TYPE: P - PLASTIC, A - AMBER GLASS, G - CLEAR GLASS, V - VOA VIAL, S - STERILE, O - OTHER
PRESERVATION: 1 - HCl, 58°C, 2 - H₂SO₄, 58°C, 3 - HNO₃, 4 - NaOH, 58°C, 5 - NaOH/ZnAc, 58°C, 6 - Na₂S₂O₃, 58°C, 7 - 58°C not frozen

MATRIX CODES:
DW - DRINKING WATER, S - SOIL, WW - WASTEWATER, SL - SLUDGE, GW - GROUNDWATER, SD - SOLID, SW - SURFACE WATER, A - AIR, ST - STORM WATER, L - LIQUID, W - WATER, P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: App III and detected App IV

LAB #:
DATE/TIME: 10/9/19 1345
DATE/TIME: 10/9/19 1540
DATE/TIME: 10/10/19 1345

RELINQUISHED BY: *H. Dell*
RELINQUISHED BY:

SAMPLED BY AND TITLE: *O. FURJEA (ACC)*
RECEIVED BY:

RECEIVED BY LAB: *Madeline*
DATE/TIME: 10/10/19 1345
Temperature: *0.4* Min: *0.4* Max: *0.4*

PH-Enrichment: Yes No
NA: Yes No
AS: Yes No
NA: Yes No

FOR LAB USE ONLY
Entered into LIMS:
Tracking #:

W0#: 2624188
PM: BM Due Date: 11/07/19
CLIENT: GAPower-CCR

Sample Condition Upon Receipt



Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking #: _____

WO#: 2624188
 PM: BM Due Date: 11/07/19
 CLIENT: GAPower-CCR

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 0.4 Biological Tissue is Frozen: Yes No

Samples on ice, cooling process has begun
 Date and initials of person examining contents: 10/10/19 ma

Temp should be above freezing to 6°C		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road

2nd Semi-Annual Event

October 2019

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – October 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta and Pittsburgh for groundwater samples collected at Grumman Road between October 7, 2019 and October 9, 2019. 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 2624187 was revised by the laboratory to add target analytes that were missing from the original report. Sample GWA-7 (2624188012) had limited sample volume for radium analysis; the radium-226 result may have a high bias.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected 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 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, with the exceptions of Radium-226 on GWA-8 (2624188011) as described in the qualifications section below. Additionally, Radium-228 in SDG 2624188 yielded a relative percent difference (RPD) for the laboratory control sample/laboratory control sample duplicate that exceeded the QC criteria (53.11% above limit of 36). This batch was passed on the individual recoveries, and no batch qualification was necessary for Radium-228.
- Field Precision:** Field goals for precision were met, with the exception of Vanadium on GWC-12 (2624187016) and DUP-2 (2624187017) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met, with the exceptions of Boron, Calcium, and Chloride in SDG 2624187 as described in the qualifications section below.
- Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

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 GWC-14 (2624187006) was qualified as estimated (J) for Chloride as the associated matrix spike and matrix spike duplicate recoveries were below QC criteria (47% and 43% below the range of 90-110).
- Sample DUP-1 (2624187001) was qualified as estimated (J) for Boron and Calcium as the associated matrix spike and matrix spike duplicate recoveries were outside the QC criteria. The sample received 50-times dilution, which yielded spike recoveries that could not be evaluated.
- Sample GWB-5R (2624187021) was qualified as estimated (J) for Boron as the associated matrix spike duplicate recovery was below QC criteria (71% below the range of 75-125).
- Sample GWB-5R (2624187021) was qualified as estimated (J) for Calcium as the associated matrix spike recovery was above QC criteria (163% above the range of 75-125).
- Sample GWA-8 (2624188011) was qualified as estimated (J) for Radium-226 as the laboratory RPD exceeded QC criteria (27.58% above limit of 25).
- Samples GWC-12 (2624187016) and DUP-2 (2624187017) were qualified as estimated (J) for Vanadium as the field RPD exceeded QC criteria (71.8% above limit of 25).
- Certain chromium and/or zinc results in SDG 2624187 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was above the RL, both the RL and method detection limit (MDL) were raised to the sample result as part of the qualification process. When the original sample result was below the RL, only the MDL was raised to the sample result as part of the qualification process.

- Certain radium results in SDG 2624188 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between October 7, 2019 and October 9, 2019 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

TABLE 1

Georgia Power Company – Grumman Road

Sample Summary Table – October 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
24187	DUP-1	10/8/2019	2624187001	GW	FD (GWC-16)	X	X	X	
24188	DUP-1	10/8/2019	2624188001	GW	FD (GWC-16)				X
24187	EB-1-10-8-19	10/8/2019	2624187002	WQ	EB	X	X	X	
24188	EB-1-10-8-19	10/8/2019	2624188002	WQ	EB				X
24187	GWC-16	10/8/2019	2624187003	GW		X	X	X	
24188	GWC-16	10/8/2019	2624188003	GW					X
24187	GWC-21	10/8/2019	2624187004	GW		X	X	X	
24188	GWC-21	10/8/2019	2624188004	GW					X
24187	GWC-15	10/8/2019	2624187005	GW		X	X	X	
24188	GWC-15	10/8/2019	2624188005	GW					X
24187	GWC-14	10/8/2019	2624187006	GW		X	X	X	
24188	GWC-14	10/8/2019	2624188006	GW					X
24187	GWB-4R	10/9/2019	2624187007	GW		X	X	X	
24188	GWB-4R	10/9/2019	2624188007	GW					X
24187	GWC-2	10/9/2019	2624187008	GW		X	X	X	
24188	GWC-2	10/9/2019	2624188008	GW					X
24187	FB-2-10-9-19	10/9/2019	2624187009	WQ	FB	X	X	X	
24188	FB-2-10-9-19	10/9/2019	2624188009	WQ	FB				X
24187	GWC-20	10/9/2019	2624187010	GW		X	X	X	
24188	GWC-20	10/9/2019	2624188010	GW					X
24187	GWA-8	10/7/2019	2624187011	GW		X	X	X	
24188	GWA-8	10/7/2019	2624188011	GW					X
24187	GWA-7	10/8/2019	2624187012	GW		X	X	X	
24188	GWA-7	10/8/2019	2624188012	GW					X
24187	FB-1-10-8-19	10/8/2019	2624187013	WQ	FB	X	X	X	
24188	FB-1-10-8-19	10/8/2019	2624188013	WQ	FB				X
24187	GWC-13	10/8/2019	2624187014	GW		X	X	X	
24188	GWC-13	10/8/2019	2624188014	GW					X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 1 (continued)

Georgia Power Company – Grumman Road

Sample Summary Table – October 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
24187	GWC-11	10/8/2019	2624187015	GW		X	X	X	
24188	GWC-11	10/8/2019	2624188015	GW					X
24187	GWC-12	10/9/2019	2624187016	GW		X	X	X	
24188	GWC-12	10/9/2019	2624188016	GW					X
24187	DUP-2	10/9/2019	2624187017	GW	FD (GWC-12)	X	X	X	
24188	DUP-2	10/9/2019	2624188017	GW	FD (GWC-12)				X
24187	GWC-17	10/9/2019	2624187018	GW		X	X	X	
24188	GWC-17	10/9/2019	2624188018	GW					X
24187	GWC-22	10/9/2019	2624187019	GW		X	X	X	
24188	GWC-22	10/9/2019	2624188019	GW					X
24187	GWB-6R	10/9/2019	2624187020	GW		X	X	X	
24188	GWB-6R	10/9/2019	2624188020	GW					X
24187	GWB-5R	10/9/2019	2624187021	GW		X	X	X	
24188	GWB-5R	10/9/2019	2624188021	GW					X
24187	GWC-1	10/9/2019	2624187022	GW		X	X	X	
24188	GWC-1	10/9/2019	2624188022	GW					X
24187	GWC-9	10/9/2019	2624187023	GW		X	X	X	
24188	GWC-9	10/9/2019	2624188023	GW					X
24187	EB-2-10-9-19	10/9/2019	2624187024	WQ	EB	X	X	X	
24188	EB-2-10-9-19	10/9/2019	2624188024	WQ	EB				X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Grumman Road

Qualifier Summary Table – October 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
24187	DUP-1	Boron			J	MS/MSD outside QC criteria
24187	DUP-1	Calcium			J	MS/MSD outside QC criteria
24187	GWC-16	Zinc	0.01	0.01	ND	Blank detection
24188	GWC-16	Radium-228		0.688	ND	Blank detection
24187	GWC-21	Zinc		0.0071	ND	Blank detection
24187	GWC-15	Zinc		0.0051	ND	Blank detection
24188	GWC-15	Radium-228		0.691	ND	Blank detection
24187	GWC-14	Zinc		0.0052	ND	Blank detection
24187	GWC-14	Chloride			J	MS/MSD below QC criteria
24187	GWB-4R	Zinc		0.0064	ND	Blank detection
24187	GWC-2	Zinc		0.005	ND	Blank detection
24187	GWC-20	Zinc		0.0049	ND	Blank detection
24187	GWA-8	Zinc		0.0077	ND	Blank detection
24188	GWA-8	Radium-226			J	RPD exceeds laboratory goal
24187	GWA-7	Zinc	0.095	0.095	ND	Blank detection
24188	GWA-7	Radium-226		0.298	ND	Blank detection
24188	GWC-13	Radium-226		0.273	ND	Blank detection
24187	GWC-11	Zinc		0.0061	ND	Blank detection
24188	GWC-11	Radium-226		0.235	ND	Blank detection
24187	GWC-12	Zinc		0.0057	ND	Blank detection
24187	GWC-12	Vanadium			J	RPD exceeds field goal
24187	DUP-2	Vanadium			J	RPD exceeds field goal
24187	GWC-17	Zinc	0.011	0.011	ND	Blank detection
24188	GWC-17	Radium-226		0.176	ND	Blank detection
24187	GWC-22	Zinc		0.0079	ND	Blank detection
24188	GWC-22	Radium-226		0.247	ND	Blank detection
24187	GWB-6R	Zinc		0.016	ND	Blank detection
24188	GWB-6R	Radium-226		0.221	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

TABLE 2 (continued)

Georgia Power Company – Grumman Road

Qualifier Summary Table – October 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
24187	GWB-5R	Boron			J	MSD below QC criteria
24187	GWB-5R	Calcium			J	MS above QC criteria
24187	GWB-5R	Chromium		0012	ND	Blank detection
24187	GWB-5R	Zinc		0.0081	ND	Blank detection
24188	GWB-5R	Radium-226		0.348	ND	Blank detection
24187	GWC-1	Chromium		0019	ND	Blank detection
24187	GWC-1	Zinc		0.0057	ND	Blank detection
24188	GWC-1	Radium-226		0.202	ND	Blank detection
24187	GWC-9	Chromium		0.009	ND	Blank detection
24187	GWC-9	Zinc		0.0054	ND	Blank detection
24188	GWC-9	Radium-226		0.294	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Product Name: Low-Flow System

Date: 2019-10-08 09:52:40

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 21 ft

Pump placement from TOC 16.5 ft

Well Information:

Well ID GWA-7
Well diameter 2 in
Well Total Depth 21.10 ft
Screen Length 5 ft
Depth to Water 7.37 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.1837319 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.2 in
Total Volume Pumped 5.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:23:19	300.10	24.35	5.70	1726.78	96.00	7.70	0.05	1.20
Last 5	09:28:19	600.04	24.26	5.71	1724.79	153.00	7.70	0.04	-3.82
Last 5	09:33:19	900.03	24.31	5.72	1723.72	230.00	7.80	0.03	-7.47
Last 5	09:38:19	1200.02	24.31	5.73	1717.46	303.00	7.80	0.02	-10.45
Last 5	09:43:19	1500.01	24.27	5.74	1700.46	315.00	7.80	0.02	-13.33
Variance 0			0.04	0.01	-1.07			-0.01	-3.65
Variance 1			-0.00	0.01	-6.26			-0.01	-2.98
Variance 2			-0.04	0.01	-17.00			-0.00	-2.87

Notes

Sampled at 0945 on 10-8-19. Cloudy 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-07 17:25:50

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 21 ft

Peri. Pump
poly
.17 in
21 ft

Pump placement from TOC 16 ft

Well Information:

Well ID GWA-8
Well diameter 2 in
Well Total Depth 20.9 ft
Screen Length 5 ft
Depth to Water 8.81 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1837319 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20.3 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	17:02:59	300.10	25.22	4.19	352.82	1.80	10.50	0.15	151.17
Last 5	17:07:59	600.03	25.09	4.22	350.93	1.90	10.50	0.13	139.76
Last 5	17:12:59	900.03	25.03	4.23	350.57	2.04	10.50	0.12	132.97
Last 5	17:17:59	1200.02	24.94	4.22	349.79	2.20	10.50	0.11	130.70
Last 5	17:22:59	1500.01	24.91	4.24	349.77	2.20	10.50	0.10	128.68
Variance 0			-0.06	0.01	-0.36			-0.01	-6.80
Variance 1			-0.09	-0.01	-0.78			-0.01	-2.27
Variance 2			-0.03	0.01	-0.02			-0.01	-2.02

Notes

Sampled at 1725 on 10-7-19. Cloudy 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 11:41:24

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 26 ft

Pump placement from TOC 18.3 ft

Well Information:

Well ID GWB-4R
Well diameter 2 in
Well Total Depth 23.3 ft
Screen Length 10 ft
Depth to Water 11.85 ft

Pumping Information:

Final Pumping Rate 230 mL/min
Total System Volume 0.206049 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 39 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:20:14	7804.91	23.51	5.79	715.49	8.33	12.20	0.15	-90.81
Last 5	11:25:14	8104.90	23.51	5.79	717.39	8.69	12.20	0.15	-91.51
Last 5	11:30:16	8406.90	23.51	5.79	716.17	8.49	12.20	0.15	-91.13
Last 5	11:35:17	8707.89	23.54	5.79	714.78	8.84	12.20	0.15	-90.04
Last 5	11:40:17	9007.89	23.61	5.79	715.81	9.00	12.20	0.14	-89.35
Variance 0			0.00	0.00	-1.22			-0.00	0.37
Variance 1			0.03	-0.00	-1.40			-0.00	1.10
Variance 2			0.08	0.00	1.04			-0.00	0.69

Notes

Sampled at 1140. Cloudy 71F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 16:26:08

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 26.5 ft

Pump placement from TOC 24 ft

Well Information:

Well ID GWB-5R
Well diameter 2 in
Well Total Depth 26.5 ft
Screen Length 5 ft
Depth to Water 10.94 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2082807 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.5 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:54:11	300.05	26.40	6.04	1997.48	92.00	11.30	0.10	-58.64
Last 5	15:59:11	600.04	25.98	6.08	2125.48	94.00	11.40	0.07	-63.05
Last 5	16:09:11	1200.03	25.87	6.11	2106.10	90.00	11.40	0.04	-65.41
Last 5	16:14:11	1500.02	25.89	6.12	2141.80	102.00	11.40	0.03	-65.84
Last 5	16:19:11	1800.02	25.54	6.11	2115.42	107.00	11.40	0.02	-65.75
Variance 0			-0.11	0.03	-19.38			-0.03	-2.36
Variance 1			0.02	0.01	35.70			-0.01	-0.44
Variance 2			-0.35	-0.01	-26.38			-0.00	0.10

Notes

Sampled at 1620 on 10-9-19. Sunny 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 15:17:16

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter
Tubing Length
Peri. Pump poly
.17 in
22.7 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWB-6R
Well diameter 2 in
Well Total Depth 22.7 ft
Screen Length 5 ft
Depth to Water 8.67 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1913197 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 14.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:51:10	3000.00	26.40	5.71	915.07	5.70	7.80	0.04	-25.90
Last 5	14:56:10	3299.97	26.38	5.68	925.29	5.40	7.80	0.04	-25.79
Last 5	15:01:10	3600.00	26.43	5.66	919.07	5.50	7.80	0.04	-24.95
Last 5	15:06:10	3899.98	26.58	5.71	905.96	5.00	7.80	0.03	-26.45
Last 5	15:11:10	4199.97	26.90	5.66	920.53	4.90	7.80	0.03	-24.57
Variance 0			0.05	-0.02	-6.23			-0.00	0.84
Variance 1			0.15	0.04	-13.11			-0.00	-1.50
Variance 2			0.32	-0.05	14.58			-0.00	1.88

Notes

Sampled at 1513 on 10-9-19. Sunny 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 15:42:23

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 32 ft

Pump placement from TOC 25.6 ft

Well Information:

Well ID GWC-1
Well diameter 2 in
Well Total Depth 28.1 ft
Screen Length 5 ft
Depth to Water 19.55 ft

Pumping Information:

Final Pumping Rate 275 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:20:21	900.01	24.67	5.83	446.90	0.95	20.60	0.22	75.75
Last 5	15:25:21	1200.01	24.87	5.83	444.23	0.33	20.60	0.20	81.05
Last 5	15:30:24	1503.00	24.77	5.82	446.30	0.42	20.60	0.19	81.46
Last 5	15:35:24	1803.00	24.81	5.82	443.87	0.39	20.70	0.18	78.64
Last 5	15:40:26	2105.00	24.63	5.82	444.59	0.47	20.70	0.18	74.75
Variance 0			-0.10	-0.02	2.07			-0.01	0.41
Variance 1			0.04	0.00	-2.43			-0.01	-2.82
Variance 2			-0.18	-0.00	0.72			-0.00	-3.89

Notes

Sampled at 1540. 77F clear.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 13:01:54

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 36 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-2
Well diameter 2 in
Well Total Depth 33.75 ft
Screen Length 5 ft
Depth to Water 19.94 ft

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.2506832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 9.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:35:10	900.01	23.34	4.78	60.12	3.62	20.20	0.20	20.90
Last 5	12:40:10	1200.06	23.15	4.80	60.51	3.54	20.20	0.19	17.18
Last 5	12:45:10	1500.01	22.88	4.79	60.78	2.48	20.20	0.18	16.89
Last 5	12:50:12	1802.00	22.71	4.79	60.59	2.56	20.20	0.18	15.32
Last 5	13:00:19	2408.99	22.75	4.79	60.18	2.29	20.20	0.18	14.92
Variance 0			-0.26	-0.01	0.27			-0.01	-0.29
Variance 1			-0.17	-0.01	-0.19			-0.00	-1.57
Variance 2			0.04	0.00	-0.40			-0.00	-0.40

Notes

Sampled at 1300. 73F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 12:09:17

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 26 ft
Peri. Pump poly

Pump placement from TOC 23 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 25.7 ft
Screen Length 5 ft
Depth to Water 10.1 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.206049 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32.4 in
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:55:48	300.04	23.51	4.67	147.29	0.80	11.10	0.39	18.71
Last 5	12:00:48	600.04	23.44	4.66	146.80	1.30	11.90	0.23	17.35
Last 5	12:05:48	900.03	23.37	4.62	146.89	1.10	12.80	0.19	18.21
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.07	-0.01	-0.49			-0.16	-1.36
Variance 2			-0.07	-0.04	0.09			-0.04	0.86

Notes

Sampled at 1210 on 10-9-19. Cloudy 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 16:56:20

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 26 ft

Pump placement from TOC 23 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 25.7 ft
Screen Length 5 ft
Depth to Water 9.93 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.206049 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 162.8 in
Total Volume Pumped 10.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	16:33:53	1800.01	24.49	4.65	152.33	1.70	18.70	0.13	49.14
Last 5	16:38:53	2100.01	24.58	4.64	151.23	2.80	20.10	0.14	53.52
Last 5	16:43:53	2400.00	24.26	4.57	150.42	3.30	21.20	0.20	62.39
Last 5	16:48:53	2700.00	24.20	4.52	148.67	5.30	22.20	0.34	73.38
Last 5	16:53:53	2999.99	24.31	4.49	149.05	5.60	23.50	0.58	71.91
Variance 0			-0.32	-0.07	-0.81			0.06	8.88
Variance 1			-0.06	-0.05	-1.75			0.14	10.99
Variance 2			0.11	-0.02	0.38			0.24	-1.47

Notes

Purged dry, allow for overnight recharge.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 15:26:33

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 23 ft

Peri. Pump
poly
.17 in
23 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWC-11
Well diameter 2 in
Well Total Depth 22.5 ft
Screen Length 5 ft
Depth to Water 10.15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32 in
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:50:27	7501.90	25.85	4.95	636.99	0.80	16.80	0.20	176.12
Last 5	14:55:27	7801.90	25.53	4.94	698.53	0.90	16.80	0.15	172.00
Last 5	15:00:27	8101.89	25.35	4.95	757.63	0.90	16.80	0.14	171.03
Last 5	15:05:27	8401.89	25.76	4.93	775.65	1.00	16.80	0.14	171.50
Last 5	15:10:28	8702.88	25.48	4.93	794.80	0.40	16.80	0.14	166.94
Variance 0			-0.18	0.00	59.10			-0.01	-0.97
Variance 1			0.41	-0.02	18.02			0.00	0.47
Variance 2			-0.27	0.00	19.15			0.00	-4.56

Notes

Sampled at 1515 on 10-8-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 09:59:28

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 26.5 ft

Pump placement from TOC 23 ft

Well Information:

Well ID GWC-12
Well diameter 2 in
Well Total Depth 26.7 ft
Screen Length 5 ft
Depth to Water 13.7 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2082807 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	09:33:48	300.04	23.32	4.31	628.47	1.50	13.90	0.87	74.69
Last 5	09:38:48	600.03	23.32	4.31	624.01	2.00	13.90	0.27	69.94
Last 5	09:43:48	900.03	23.35	4.28	623.44	1.40	13.90	0.19	66.52
Last 5	09:48:48	1200.02	23.27	4.29	623.48	1.10	13.90	0.18	63.02
Last 5	09:53:48	1500.01	23.17	4.25	649.52	1.10	13.90	0.17	57.18
Variance 0			0.03	-0.04	-0.57			-0.08	-3.42
Variance 1			-0.08	0.01	0.04			-0.01	-3.50
Variance 2			-0.11	-0.03	26.04			-0.02	-5.83

Notes

Sampled at 0955 on 10-9-19. Cloudy, 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 11:28:13

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 24 ft

Peri. Pump
poly
.17 in
24 ft

Pump placement from TOC 21 ft

Well Information:

Well ID GWC-13
Well diameter 2 in
Well Total Depth 24.1 ft
Screen Length 5 ft
Depth to Water 14.76 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.1971222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.1 in
Total Volume Pumped 9.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:54:06	1800.01	23.86	4.73	80.54	4.50	15.10	0.16	149.23
Last 5	10:59:06	2100.00	23.90	4.81	77.97	2.10	15.10	0.15	149.15
Last 5	11:14:06	2999.99	24.76	4.81	74.19	1.20	15.10	0.13	135.78
Last 5	11:19:06	3299.97	24.98	4.81	73.50	1.70	15.10	0.13	134.04
Last 5	11:24:06	3599.97	24.86	4.81	72.97	1.30	15.10	0.13	133.07
Variance 0			0.86	0.00	-3.78			-0.02	-13.37
Variance 1			0.22	0.00	-0.69			0.00	-1.75
Variance 2			-0.12	0.00	-0.54			-0.00	-0.97

Notes

Sampled at 1125 on 10-8-19. Sunny 70s. FB-1-10-8-19 here at 1040.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 16:32:02

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 32 ft

Pump placement from TOC 24.5 ft

Well Information:

Well ID GWC-14
Well diameter 2 in
Well Total Depth 27 ft
Screen Length 5 ft
Depth to Water 19.92 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	16:10:02	600.02	23.64	5.69	1091.73	2.08	20.20	0.37	53.48
Last 5	16:15:02	900.01	23.60	5.69	1097.36	1.68	20.20	0.35	27.18
Last 5	16:20:02	1200.01	23.42	5.69	1096.01	1.91	20.20	0.37	11.57
Last 5	16:25:04	1502.01	23.35	5.68	1095.65	1.25	20.20	0.37	4.22
Last 5	16:30:09	1807.00	23.42	5.68	1091.53	1.51	20.20	0.37	3.33
Variance 0			-0.18	-0.00	-1.35			0.01	-15.60
Variance 1			-0.06	-0.00	-0.36			0.00	-7.35
Variance 2			0.06	-0.00	-4.11			0.00	-0.88

Notes

Sampled at 1630. 83F Sunny.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 15:27:16

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 24.3 ft

Well Information:

Well ID GWC-15
Well diameter 2 in
Well Total Depth 26.8 ft
Screen Length 5 ft
Depth to Water 19.54 ft

Pumping Information:

Final Pumping Rate 185 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 6.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:05:03	300.06	25.86	6.62	704.18	3.38	19.90	0.25	39.70
Last 5	15:10:03	600.02	25.49	6.63	742.35	3.19	19.90	0.22	38.57
Last 5	15:15:03	900.02	25.68	6.64	746.95	5.13	19.90	0.20	40.50
Last 5	15:20:03	1201.01	25.74	6.65	751.00	4.89	19.90	0.19	41.87
Last 5	15:25:10	1507.01	25.47	6.65	752.43	4.20	19.90	0.19	41.37
Variance 0			0.18	0.01	4.60			-0.02	1.94
Variance 1			0.07	0.01	4.05			-0.01	1.36
Variance 2			-0.27	0.00	1.43			-0.00	-0.49

Notes

Sampled at 1525. 86F Sunny.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 12:35:45

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter
Tubing Length
Peri. Pump
poly
.17 in
32 ft

Pump placement from TOC 25.7 ft

Well Information:

Well ID GWC-16
Well diameter 2 in
Well Total Depth 28.2 ft
Screen Length 5 ft
Depth to Water 20.92 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 13.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:10:03	1200.01	24.07	5.43	1777.15	10.90	21.10	0.33	-44.23
Last 5	12:15:03	1500.00	24.27	5.47	1759.57	5.39	21.20	0.35	-46.30
Last 5	12:20:05	1802.00	24.37	5.50	1744.14	8.97	21.20	0.39	-47.21
Last 5	12:25:05	2102.05	24.36	5.52	1744.57	4.24	21.20	0.39	-48.10
Last 5	12:30:05	2402.01	24.39	5.54	1737.96	4.33	21.20	0.43	-48.91
Variance 0			0.10	0.03	-15.43			0.04	-0.92
Variance 1			-0.01	0.02	0.42			0.01	-0.88
Variance 2			0.03	0.02	-6.61			0.04	-0.81

Notes

Sampled at 1230. Sunny 83F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 11:13:17

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter .17 in
Tubing Length 23 ft

Peri. Pump
poly
.17 in
23 ft

Pump placement from TOC 20.5 ft

Well Information:

Well ID GWC-17
Well diameter 2 in
Well Total Depth 23 ft
Screen Length 5 ft
Depth to Water 7.35 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.2 in
Total Volume Pumped 13.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:48:17	300.03	23.88	4.43	1559.79	2.80	8.60	0.15	55.88
Last 5	10:53:17	600.03	23.90	4.61	1472.84	3.10	8.70	0.14	47.42
Last 5	10:58:17	900.03	23.83	4.68	1458.43	2.90	8.70	0.13	42.32
Last 5	11:03:17	1200.02	23.86	4.70	1441.66	3.80	8.70	0.12	41.13
Last 5	11:08:17	1500.02	23.86	4.66	1454.25	4.00	8.70	0.12	41.11
Variance 0			-0.07	0.07	-14.40			-0.01	-5.09
Variance 1			0.03	0.03	-16.77			-0.01	-1.20
Variance 2			-0.01	-0.04	12.58			-0.01	-0.02

Notes

Sampled at 1110 on 10-9-19. Cloudy 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 14:26:23

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 28 ft

Pump placement from TOC 23.4 ft

Well Information:

Well ID GWC-20
Well diameter 2 in
Well Total Depth 24.9 ft
Screen Length 5 ft
Depth to Water 21.39 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:05:05	1500.00	23.69	6.52	638.87	0.80	21.80	0.76	-46.60
Last 5	14:10:05	1800.00	23.70	6.51	637.98	0.70	21.80	0.71	-49.58
Last 5	14:15:05	2100.00	23.74	6.51	637.11	0.77	21.80	0.71	-51.87
Last 5	14:20:05	2399.99	23.86	6.51	634.22	0.66	21.80	0.69	-52.96
Last 5	14:25:06	2700.99	23.96	6.50	638.35	0.82	21.80	0.66	-54.61
Variance 0			0.04	-0.00	-0.88			-0.00	-2.28
Variance 1			0.13	0.00	-2.88			-0.02	-1.09
Variance 2			0.09	-0.01	4.13			-0.03	-1.65

Notes

Sampled at 1425. 75F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 14:27:40

Project Information:

Operator Name O. Fuquea
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 25 ft

Pump placement from TOC 22.8 ft

Well Information:

Well ID GWC-21
Well diameter 2 in
Well Total Depth 23.8 ft
Screen Length 5 ft
Depth to Water 20.85 ft

Pumping Information:

Final Pumping Rate 165 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:05:01	2699.99	25.60	6.06	360.58	3.47	21.00	2.14	-15.02
Last 5	14:10:01	2999.98	25.54	6.07	367.22	3.38	21.00	2.12	-19.81
Last 5	14:15:01	3299.98	25.31	6.07	384.86	1.53	21.00	2.12	-26.50
Last 5	14:20:01	3599.97	25.46	6.09	393.39	1.40	21.00	2.10	-32.36
Last 5	14:25:01	3899.97	25.33	6.09	399.71	1.41	21.00	2.06	-36.37
Variance 0			-0.23	0.00	17.64			-0.00	-6.69
Variance 1			0.15	0.01	8.53			-0.02	-5.86
Variance 2			-0.13	0.01	6.31			-0.04	-4.02

Notes

Sampled at 1425. Sunny 87F.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 13:20:38

Project Information:

Operator Name H. Auld
Company Name Atlantic Coast Consulting
Project Name October Monitoring Event
Site Name Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri. Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 18.6 ft

Pump placement from TOC 16 ft

Well Information:

Well ID GWC-22
Well diameter 2 in
Well Total Depth 18.6 ft
Screen Length 5 ft
Depth to Water 9.74 ft

Pumping Information:

Final Pumping Rate 165 mL/min
Total System Volume 0.1730197 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.9 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:54:58	300.04	25.58	4.65	213.75	4.60	9.90	0.34	106.88
Last 5	12:59:58	600.04	25.53	4.64	254.42	2.10	9.90	0.23	108.76
Last 5	13:04:58	900.03	25.44	4.66	262.99	5.10	9.90	0.19	107.67
Last 5	13:09:58	1200.02	25.43	4.66	263.87	2.50	9.90	0.17	108.65
Last 5	13:14:58	1500.02	25.49	4.68	263.46	3.10	9.90	0.15	109.73
Variance 0			-0.09	0.02	8.57			-0.04	-1.09
Variance 1			-0.01	0.00	0.88			-0.02	0.98
Variance 2			0.06	0.01	-0.41			-0.02	1.08

Notes

Sampled at 1318 on 10-9-19. Cloudy 70s.

Grab Samples

May 07, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between April 08, 2020 and April 09, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Atlanta, GA

All TDS samples within the project were originally performed within hold time. They were all then reanalyzed for confirmation after the hold time was exceeded. Sample GWC-14 did not confirm the original TDS result. Therefore, sample GWC-14 had to be revised with a new TDS result and was qualified that it exceeded the hold time.

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

Sincerely,



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

Enclosures

cc: Owens Fuquea, ACC
Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting

Lauren Petty, Southern Company Services, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630818001	GWB-4R	Water	04/07/20 09:32	04/08/20 13:10
2630818002	GWC-1	Water	04/07/20 11:30	04/08/20 13:10
2630818003	GWB-5R	Water	04/07/20 15:35	04/08/20 13:10
2630818004	GWB-6R	Water	04/07/20 16:58	04/08/20 13:10
2630818005	GWC-16	Water	04/07/20 10:45	04/08/20 13:10
2630818006	GWC-21	Water	04/07/20 13:45	04/08/20 13:10
2630818007	GWC-15	Water	04/07/20 16:10	04/08/20 13:10
2630818008	GWC-14	Water	04/07/20 13:55	04/08/20 13:10
2630818009	FB-1-4-6-20	Water	04/07/20 17:05	04/08/20 13:10
2630818010	DUP-1	Water	04/07/20 00:00	04/08/20 13:10
2630818011	GWA-8	Water	04/06/20 14:40	04/08/20 13:10
2630818012	GWA-7	Water	04/06/20 16:10	04/08/20 13:10
2630818013	GWC-12	Water	04/07/20 10:00	04/08/20 13:10
2630818014	GWC-11	Water	04/07/20 12:35	04/08/20 13:10
2630818015	GWC-22	Water	04/07/20 15:40	04/08/20 13:10
2630818016	EB-1-4-7-2020	Water	04/07/20 13:30	04/08/20 13:10
2630818017	GWC-13	Water	04/08/20 09:53	04/09/20 09:21
2630818018	GWC-2	Water	04/08/20 12:25	04/09/20 09:21
2630818019	GWC-9	Water	04/08/20 10:00	04/09/20 09:21
2630818020	GWC-20	Water	04/08/20 12:00	04/09/20 09:21
2630818021	GWC-17	Water	04/08/20 15:35	04/09/20 09:21
2630818022	EB-2-4-7-20	Water	04/08/20 14:45	04/09/20 09:21
2630818023	FB-2-4-7-20	Water	04/08/20 12:30	04/09/20 09:21
2630818024	DUP-2	Water	04/08/20 00:00	04/09/20 09:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630818001	GWB-4R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818002	GWC-1	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818003	GWB-5R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818004	GWB-6R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818005	GWC-16	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818006	GWC-21	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818007	GWC-15	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818008	GWC-14	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818009	FB-1-4-6-20	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818010	DUP-1	EPA 6010D	DRB	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630818011	GWA-8	EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
2630818012	GWA-7	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630818013	GWC-12	EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
2630818014	GWC-11	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630818015	GWC-22	EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
2630818016	EB-1-4-7-2020	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	14	PASI-GA
		SM 2540C	VHB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630818017	GWC-13	EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
2630818018	GWC-2	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630818019	GWC-9	EPA 6020B	KLH	14	PASI-GA
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630818020	GWC-20	SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
2630818021	GWC-17	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630818022	EB-2-4-7-20	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
2630818023	FB-2-4-7-20	EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
2630818024	DUP-2	SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	KLH	14	PASI-GA
		SM 2540C	KN	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818001	GWB-4R					
	Field pH	5.74	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	62.1	mg/L	1.0	04/16/20 17:57	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	04/13/20 17:34	
EPA 6020B	Barium	0.090	mg/L	0.010	04/13/20 17:34	
EPA 6020B	Boron	5.5	mg/L	0.10	04/13/20 17:34	
EPA 6020B	Chromium	0.0028J	mg/L	0.010	04/13/20 17:34	
EPA 6020B	Cobalt	0.00090J	mg/L	0.0050	04/13/20 17:34	
EPA 6020B	Lead	0.00073J	mg/L	0.0050	04/13/20 17:34	
EPA 6020B	Lithium	0.014J	mg/L	0.030	04/13/20 17:34	
EPA 6020B	Molybdenum	0.13	mg/L	0.010	04/13/20 17:34	
EPA 6020B	Selenium	0.0025J	mg/L	0.010	04/13/20 17:34	
EPA 6020B	Vanadium	0.0037J	mg/L	0.010	04/13/20 17:34	B
SM 2540C	Total Dissolved Solids	482	mg/L	10.0	04/09/20 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	04/10/20 05:47	
EPA 300.0 Rev 2.1 1993	Sulfate	221	mg/L	5.0	04/10/20 21:17	
2630818002	GWC-1					
	Field pH	5.30	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	31.1	mg/L	1.0	04/16/20 18:00	
EPA 6020B	Arsenic	0.027	mg/L	0.0050	04/13/20 18:08	
EPA 6020B	Barium	0.050	mg/L	0.010	04/13/20 18:08	
EPA 6020B	Boron	1.0	mg/L	0.10	04/13/20 18:08	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	04/13/20 18:08	
EPA 6020B	Lead	0.00012J	mg/L	0.0050	04/13/20 18:08	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	04/13/20 18:08	
EPA 6020B	Selenium	0.0013J	mg/L	0.010	04/13/20 18:08	
EPA 6020B	Thallium	0.000054J	mg/L	0.0010	04/13/20 18:08	
EPA 6020B	Vanadium	0.0015J	mg/L	0.010	04/13/20 18:08	B
SM 2540C	Total Dissolved Solids	195	mg/L	10.0	04/09/20 11:05	
EPA 300.0 Rev 2.1 1993	Chloride	7.7	mg/L	1.0	04/10/20 06:02	
EPA 300.0 Rev 2.1 1993	Sulfate	83.0	mg/L	1.0	04/10/20 06:02	
2630818003	GWB-5R					
	Field pH	5.45	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	34.1	mg/L	1.0	04/16/20 18:04	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	04/13/20 18:14	
EPA 6020B	Barium	0.098	mg/L	0.010	04/13/20 18:14	
EPA 6020B	Boron	4.6	mg/L	0.10	04/13/20 18:14	
EPA 6020B	Chromium	0.0022J	mg/L	0.010	04/13/20 18:14	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	04/13/20 18:14	
EPA 6020B	Lead	0.0014J	mg/L	0.0050	04/13/20 18:14	
EPA 6020B	Vanadium	0.0053J	mg/L	0.010	04/13/20 18:14	B
SM 2540C	Total Dissolved Solids	483	mg/L	10.0	04/09/20 11:05	
EPA 300.0 Rev 2.1 1993	Chloride	44.3	mg/L	1.0	04/10/20 06:17	
EPA 300.0 Rev 2.1 1993	Sulfate	180	mg/L	4.0	04/10/20 21:32	
2630818004	GWB-6R					
	Field pH	5.86	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	7.8	mg/L	1.0	04/16/20 18:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818004	GWB-6R					
EPA 6020B	Barium	0.010J	mg/L	0.050	04/13/20 18:19	D3
EPA 6020B	Boron	5.6	mg/L	0.50	04/13/20 18:19	
EPA 6020B	Chromium	0.0094J	mg/L	0.050	04/13/20 18:19	D3
EPA 6020B	Lead	0.00063J	mg/L	0.025	04/13/20 18:19	D3
EPA 6020B	Vanadium	0.041J	mg/L	0.050	04/13/20 18:19	B,D3
SM 2540C	Total Dissolved Solids	775	mg/L	10.0	04/09/20 11:08	
EPA 300.0 Rev 2.1 1993	Chloride	56.4	mg/L	1.0	04/10/20 06:32	
EPA 300.0 Rev 2.1 1993	Sulfate	180	mg/L	4.0	04/10/20 21:47	
2630818005	GWC-16					
	Field pH	5.94	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	225	mg/L	1.0	04/16/20 18:11	
EPA 6020B	Arsenic	0.091	mg/L	0.025	04/14/20 16:19	
EPA 6020B	Barium	0.13	mg/L	0.050	04/14/20 16:19	
EPA 6020B	Boron	10.5	mg/L	0.50	04/14/20 16:19	
EPA 6020B	Lead	0.00023J	mg/L	0.025	04/14/20 16:19	
EPA 6020B	Molybdenum	0.25	mg/L	0.050	04/14/20 16:19	
SM 2540C	Total Dissolved Solids	1500	mg/L	10.0	04/09/20 11:09	
EPA 300.0 Rev 2.1 1993	Chloride	49.3	mg/L	1.0	04/10/20 06:47	
EPA 300.0 Rev 2.1 1993	Sulfate	844	mg/L	16.0	04/10/20 22:02	
2630818006	GWC-21					
	Field pH	6.00	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	12.5	mg/L	1.0	04/16/20 18:15	
EPA 6020B	Barium	0.054	mg/L	0.010	04/13/20 18:31	
EPA 6020B	Boron	0.24	mg/L	0.10	04/13/20 18:31	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	04/13/20 18:31	
EPA 6020B	Selenium	0.012	mg/L	0.010	04/13/20 18:31	
SM 2540C	Total Dissolved Solids	106	mg/L	10.0	04/09/20 11:09	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	04/10/20 07:47	
EPA 300.0 Rev 2.1 1993	Sulfate	33.2	mg/L	1.0	04/10/20 07:47	
2630818007	GWC-15					
	Field pH	6.83	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	129	mg/L	1.0	04/16/20 18:18	
EPA 6020B	Arsenic	0.24	mg/L	0.0050	04/13/20 18:37	
EPA 6020B	Barium	0.033	mg/L	0.010	04/13/20 18:37	
EPA 6020B	Boron	0.96	mg/L	0.10	04/13/20 18:37	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	04/13/20 18:37	
EPA 6020B	Lead	0.000086J	mg/L	0.0050	04/13/20 18:37	
EPA 6020B	Molybdenum	0.070	mg/L	0.010	04/13/20 18:37	
EPA 6020B	Selenium	0.0029J	mg/L	0.010	04/13/20 18:37	
SM 2540C	Total Dissolved Solids	428	mg/L	10.0	04/09/20 11:10	D6
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	04/10/20 08:02	
EPA 300.0 Rev 2.1 1993	Sulfate	26.9	mg/L	1.0	04/10/20 08:02	
2630818008	GWC-14					
	Field pH	6.20	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	135	mg/L	1.0	04/16/20 18:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818008	GWC-14					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	04/13/20 18:42	
EPA 6020B	Barium	0.073	mg/L	0.010	04/13/20 18:42	
EPA 6020B	Boron	0.061J	mg/L	0.10	04/13/20 18:42	
EPA 6020B	Chromium	0.00074J	mg/L	0.010	04/13/20 18:42	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	04/13/20 18:42	
EPA 6020B	Selenium	0.0050J	mg/L	0.010	04/13/20 18:42	
EPA 6020B	Vanadium	0.0026J	mg/L	0.010	04/13/20 18:42	B
SM 2540C	Total Dissolved Solids	843	mg/L	10.0	04/30/20 11:05	H1
EPA 300.0 Rev 2.1 1993	Chloride	41.6	mg/L	1.0	04/10/20 08:17	
EPA 300.0 Rev 2.1 1993	Sulfate	456	mg/L	9.0	04/10/20 22:17	
2630818009	FB-1-4-6-20					
EPA 6020B	Boron	0.0056J	mg/L	0.10	04/13/20 18:48	
2630818010	DUP-1					
EPA 6010D	Calcium	30.9	mg/L	1.0	04/16/20 18:35	
EPA 6020B	Arsenic	0.027	mg/L	0.0050	04/13/20 18:54	
EPA 6020B	Barium	0.050	mg/L	0.010	04/13/20 18:54	
EPA 6020B	Boron	0.98	mg/L	0.10	04/13/20 18:54	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	04/13/20 18:54	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	04/13/20 18:54	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	04/13/20 18:54	
EPA 6020B	Vanadium	0.0016J	mg/L	0.010	04/13/20 18:54	B
SM 2540C	Total Dissolved Solids	248	mg/L	10.0	04/09/20 11:26	
EPA 300.0 Rev 2.1 1993	Chloride	7.8	mg/L	1.0	04/10/20 08:47	
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L	1.0	04/10/20 08:47	M1
2630818011	GWA-8					
	Field pH	4.52	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	35.8	mg/L	1.0	04/16/20 18:39	
EPA 6020B	Arsenic	0.00045J	mg/L	0.0050	04/13/20 18:59	
EPA 6020B	Barium	0.057	mg/L	0.010	04/13/20 18:59	
EPA 6020B	Beryllium	0.00017J	mg/L	0.0030	04/13/20 18:59	
EPA 6020B	Boron	0.14	mg/L	0.10	04/13/20 18:59	
EPA 6020B	Cobalt	0.00036J	mg/L	0.0050	04/13/20 18:59	
EPA 6020B	Lead	0.00010J	mg/L	0.0050	04/13/20 18:59	
EPA 6020B	Lithium	0.00086J	mg/L	0.030	04/13/20 18:59	
SM 2540C	Total Dissolved Solids	214	mg/L	10.0	04/09/20 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	04/10/20 09:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.30	04/10/20 09:32	
EPA 300.0 Rev 2.1 1993	Sulfate	123	mg/L	3.0	04/10/20 23:03	
2630818012	GWA-7					
	Field pH	6.02	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	3.1	mg/L	1.0	04/16/20 18:42	
EPA 6020B	Barium	0.072	mg/L	0.050	04/13/20 19:17	
EPA 6020B	Boron	6.1	mg/L	0.50	04/13/20 19:17	
EPA 6020B	Chromium	0.015J	mg/L	0.050	04/13/20 19:17	D3
EPA 6020B	Cobalt	0.0021J	mg/L	0.025	04/13/20 19:17	D3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818012	GWA-7					
EPA 6020B	Lead	0.0024J	mg/L	0.025	04/13/20 19:17	D3
EPA 6020B	Selenium	0.0078J	mg/L	0.050	04/13/20 19:17	D3
EPA 6020B	Vanadium	0.12	mg/L	0.050	04/13/20 19:17	
SM 2540C	Total Dissolved Solids	1670	mg/L	10.0	04/09/20 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	30.2	mg/L	1.0	04/10/20 09:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13J	mg/L	0.30	04/10/20 09:47	
EPA 300.0 Rev 2.1 1993	Sulfate	20.3	mg/L	1.0	04/10/20 09:47	
2630818013	GWC-12					
	Field pH	4.10	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	52.1	mg/L	1.0	04/16/20 18:46	
EPA 6020B	Barium	0.017	mg/L	0.010	04/13/20 19:22	
EPA 6020B	Beryllium	0.00051J	mg/L	0.0030	04/13/20 19:22	
EPA 6020B	Boron	5.3	mg/L	0.10	04/13/20 19:22	
EPA 6020B	Chromium	0.00082J	mg/L	0.010	04/13/20 19:22	
EPA 6020B	Cobalt	0.00077J	mg/L	0.0050	04/13/20 19:22	
EPA 6020B	Lead	0.000081J	mg/L	0.0050	04/13/20 19:22	
EPA 6020B	Lithium	0.00094J	mg/L	0.030	04/13/20 19:22	
EPA 6020B	Thallium	0.00013J	mg/L	0.0010	04/13/20 19:22	
EPA 6020B	Vanadium	0.0024J	mg/L	0.010	04/13/20 19:22	B
SM 2540C	Total Dissolved Solids	464	mg/L	10.0	04/09/20 11:26	
EPA 300.0 Rev 2.1 1993	Chloride	32.5	mg/L	1.0	04/10/20 10:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27J	mg/L	0.30	04/10/20 10:02	
EPA 300.0 Rev 2.1 1993	Sulfate	297	mg/L	7.0	04/11/20 00:02	
2630818014	GWC-11					
	Field pH	5.05	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	84.7	mg/L	1.0	04/16/20 18:49	
EPA 6020B	Antimony	0.00066J	mg/L	0.0030	04/29/20 17:16	B
EPA 6020B	Barium	0.14	mg/L	0.010	04/29/20 17:16	
EPA 6020B	Boron	0.67	mg/L	0.10	04/29/20 17:16	
EPA 6020B	Cadmium	0.00051J	mg/L	0.0025	04/29/20 17:16	
EPA 6020B	Chromium	0.00094J	mg/L	0.010	04/29/20 17:16	
EPA 6020B	Lead	0.00036J	mg/L	0.0050	04/29/20 17:16	
EPA 6020B	Selenium	0.0021J	mg/L	0.010	04/29/20 17:16	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	04/29/20 17:16	
SM 2540C	Total Dissolved Solids	780	mg/L	10.0	04/09/20 11:27	
EPA 300.0 Rev 2.1 1993	Chloride	103	mg/L	9.0	04/11/20 00:17	
EPA 300.0 Rev 2.1 1993	Sulfate	446	mg/L	9.0	04/11/20 00:17	
2630818015	GWC-22					
	Field pH	4.80	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	65.7	mg/L	1.0	04/20/20 18:41	M1
EPA 6020B	Antimony	0.00049J	mg/L	0.0030	04/13/20 19:34	
EPA 6020B	Arsenic	0.00043J	mg/L	0.0050	04/13/20 19:34	
EPA 6020B	Barium	0.10	mg/L	0.010	04/13/20 19:34	
EPA 6020B	Boron	3.1	mg/L	0.10	04/13/20 19:34	
EPA 6020B	Cadmium	0.00054J	mg/L	0.0025	04/13/20 19:34	
EPA 6020B	Chromium	0.00049J	mg/L	0.010	04/13/20 19:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818015	GWC-22					
EPA 6020B	Cobalt	0.00037J	mg/L	0.0050	04/13/20 19:34	
EPA 6020B	Lead	0.00067J	mg/L	0.0050	04/13/20 19:34	
EPA 6020B	Thallium	0.000065J	mg/L	0.0010	04/13/20 19:34	
EPA 6020B	Vanadium	0.0014J	mg/L	0.010	04/13/20 19:34	B
SM 2540C	Total Dissolved Solids	819	mg/L	10.0	04/09/20 11:27	
EPA 300.0 Rev 2.1 1993	Chloride	146	mg/L	7.0	04/11/20 00:32	
EPA 300.0 Rev 2.1 1993	Sulfate	333	mg/L	7.0	04/11/20 00:32	
2630818016	EB-1-4-7-2020					
EPA 6020B	Boron	0.0090J	mg/L	0.10	04/13/20 19:45	
EPA 6020B	Lead	0.000072J	mg/L	0.0050	04/13/20 19:45	
2630818017	GWC-13					
	Field pH	4.81	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	2.5	mg/L	1.0	04/15/20 17:25	
EPA 6010D	Zinc	0.023	mg/L	0.020	04/15/20 17:25	
EPA 6020B	Barium	0.027	mg/L	0.010	04/15/20 16:27	
EPA 6020B	Boron	0.28	mg/L	0.10	04/15/20 16:27	
EPA 6020B	Chromium	0.00058J	mg/L	0.010	04/15/20 16:27	
EPA 6020B	Lead	0.00017J	mg/L	0.0050	04/15/20 16:27	
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	04/15/20 16:27	
SM 2540C	Total Dissolved Solids	65.0	mg/L	10.0	04/14/20 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	04/14/20 15:50	
EPA 300.0 Rev 2.1 1993	Sulfate	30.7	mg/L	1.0	04/14/20 15:50	
2630818018	GWC-2					
	Field pH	4.66	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	0.24J	mg/L	1.0	04/15/20 17:28	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	04/15/20 16:50	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	04/15/20 16:50	
EPA 6020B	Barium	0.061	mg/L	0.010	04/15/20 16:50	
EPA 6020B	Beryllium	0.000088J	mg/L	0.0030	04/15/20 16:50	
EPA 6020B	Boron	0.031J	mg/L	0.10	04/15/20 16:50	
EPA 6020B	Chromium	0.00069J	mg/L	0.010	04/15/20 16:50	
EPA 6020B	Cobalt	0.00036J	mg/L	0.0050	04/15/20 16:50	
SM 2540C	Total Dissolved Solids	38.0	mg/L	10.0	04/14/20 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	04/14/20 16:04	
EPA 300.0 Rev 2.1 1993	Sulfate	12.9	mg/L	1.0	04/14/20 16:04	
2630818019	GWC-9					
	Field pH	4.73	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	5.3	mg/L	1.0	04/15/20 17:32	
EPA 6020B	Antimony	0.00033J	mg/L	0.0030	04/15/20 16:56	
EPA 6020B	Arsenic	0.00084J	mg/L	0.0050	04/15/20 16:56	
EPA 6020B	Barium	0.15	mg/L	0.010	04/15/20 16:56	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	04/15/20 16:56	
EPA 6020B	Boron	0.023J	mg/L	0.10	04/15/20 16:56	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	04/15/20 16:56	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	04/15/20 16:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630818019	GWC-9					
EPA 6020B	Lead	0.00021J	mg/L	0.0050	04/15/20 16:56	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	04/15/20 16:56	
EPA 6020B	Vanadium	0.0015J	mg/L	0.010	04/15/20 16:56	
SM 2540C	Total Dissolved Solids	80.0	mg/L	10.0	04/14/20 17:47	
EPA 300.0 Rev 2.1 1993	Chloride	16.9	mg/L	1.0	04/14/20 16:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.30	04/14/20 16:19	
EPA 300.0 Rev 2.1 1993	Sulfate	34.2	mg/L	1.0	04/14/20 16:19	
2630818020	GWC-20					
	Field pH	6.31	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	175	mg/L	1.0	04/29/20 16:55	M1
EPA 6020B	Arsenic	0.33	mg/L	0.0050	04/15/20 17:23	
EPA 6020B	Barium	0.19	mg/L	0.010	04/15/20 17:23	
EPA 6020B	Boron	2.5	mg/L	0.10	04/15/20 17:23	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	04/15/20 17:23	
EPA 6020B	Molybdenum	0.060	mg/L	0.010	04/15/20 17:23	
EPA 6020B	Selenium	0.0013J	mg/L	0.010	04/15/20 17:23	
SM 2540C	Total Dissolved Solids	986	mg/L	10.0	04/14/20 17:47	
EPA 300.0 Rev 2.1 1993	Chloride	20.2	mg/L	1.0	04/14/20 16:33	
EPA 300.0 Rev 2.1 1993	Sulfate	428	mg/L	9.0	04/15/20 10:07	
2630818021	GWC-17					
	Field pH	4.71	Std. Units		04/13/20 10:26	
EPA 6010D	Calcium	53.1	mg/L	1.0	04/15/20 18:17	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	04/15/20 17:28	
EPA 6020B	Barium	0.055	mg/L	0.010	04/15/20 17:28	
EPA 6020B	Beryllium	0.0017J	mg/L	0.0030	04/15/20 17:28	
EPA 6020B	Boron	0.99	mg/L	0.10	04/15/20 17:28	
EPA 6020B	Chromium	0.00073J	mg/L	0.010	04/15/20 17:28	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	04/15/20 17:28	
EPA 6020B	Lead	0.000084J	mg/L	0.0050	04/15/20 17:28	
EPA 6020B	Lithium	0.0051J	mg/L	0.030	04/15/20 17:28	
EPA 6020B	Molybdenum	0.0024J	mg/L	0.010	04/15/20 17:28	
EPA 6020B	Thallium	0.000056J	mg/L	0.0010	04/15/20 17:28	
SM 2540C	Total Dissolved Solids	881	mg/L	10.0	04/14/20 17:47	
EPA 300.0 Rev 2.1 1993	Chloride	277	mg/L	6.0	04/15/20 10:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.55	mg/L	0.30	04/14/20 16:48	
EPA 300.0 Rev 2.1 1993	Sulfate	239	mg/L	6.0	04/15/20 10:22	
2630818022	EB-2-4-7-20					
EPA 6020B	Boron	0.0083J	mg/L	0.10	04/15/20 17:34	
2630818024	DUP-2					
EPA 6010D	Calcium	2.6	mg/L	1.0	04/15/20 18:27	
EPA 6010D	Zinc	0.020	mg/L	0.020	04/15/20 18:27	
EPA 6020B	Arsenic	0.00045J	mg/L	0.0050	04/15/20 17:46	
EPA 6020B	Barium	0.031	mg/L	0.010	04/15/20 17:46	
EPA 6020B	Boron	0.26	mg/L	0.10	04/15/20 17:46	
EPA 6020B	Chromium	0.00043J	mg/L	0.010	04/15/20 17:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630818024	DUP-2					
EPA 6020B	Lead	0.00015J	mg/L	0.0050	04/15/20 17:46	
SM 2540C	Total Dissolved Solids	53.0	mg/L	10.0	04/14/20 17:49	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	04/14/20 18:44	
EPA 300.0 Rev 2.1 1993	Sulfate	31.0	mg/L	1.0	04/14/20 18:44	

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Method: EPA 6010D
Description: 6010D MET ICP
Client: Georgia Power
Date: May 07, 2020

General Information:

24 samples were analyzed for EPA 6010D by Pace Analytical Services Atlanta, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 45533

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630862003

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 210190)
 - Calcium
- MSD (Lab ID: 210191)
 - Calcium

QC Batch: 45592

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630908002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 210528)
 - Calcium
- MSD (Lab ID: 210529)
 - Calcium

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Method: EPA 6010D

Description: 6010D MET ICP

Client: Georgia Power

Date: May 07, 2020

QC Batch: 45628

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630818015

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 210936)
 - Calcium
- MSD (Lab ID: 210937)
 - Calcium

QC Batch: 45905

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630818020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 212459)
 - Calcium
- MSD (Lab ID: 212460)
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Method: EPA 6020B
Description: 6020B MET ICPMS
Client: Georgia Power
Date: May 07, 2020

General Information:

24 samples were analyzed for EPA 6020B by Pace Analytical Services Atlanta, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 45464

- B: Analyte was detected in the associated method blank.
- BLANK for HBN 45464 [MPRP/5049 (Lab ID: 209861)
 - Vanadium

QC Batch: 45904

- B: Analyte was detected in the associated method blank.
- BLANK for HBN 45904 [MPRP/5128 (Lab ID: 212453)
 - Antimony

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Method: EPA 6020B

Description: 6020B MET ICPMS

Client: Georgia Power

Date: May 07, 2020

Analyte Comments:

QC Batch: 45464

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GWA-7 (Lab ID: 2630818012)
 - Arsenic
 - Beryllium
 - Cadmium
 - Cobalt
 - Chromium
 - Lithium
 - Molybdenum
 - Lead
 - Antimony
 - Selenium
 - Thallium
- GWB-6R (Lab ID: 2630818004)
 - Arsenic
 - Barium
 - Beryllium
 - Cadmium
 - Cobalt
 - Chromium
 - Lithium
 - Molybdenum
 - Lead
 - Antimony
 - Selenium
 - Thallium
 - Vanadium

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Georgia Power

Date: May 07, 2020

General Information:

24 samples were analyzed for SM 2540C by Pace Analytical Services Atlanta, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- GWC-14 (Lab ID: 2630818008)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 45370

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 209274)
- Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Method: EPA 300.0 Rev 2.1 1993
Description: 300.0 IC Anions 28 Days
Client: Georgia Power
Date: May 07, 2020

General Information:

24 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 535486

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630818010,92472966003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2857321)
 - Fluoride
 - Sulfate
- MSD (Lab ID: 2857322)
 - Fluoride
 - Sulfate

QC Batch: 535954

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2630818022,2630873001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2859460)
 - Chloride
 - Sulfate
- MS (Lab ID: 2859462)
 - Fluoride
- MSD (Lab ID: 2859463)
 - Fluoride

R1: RPD value was outside control limits.

- MSD (Lab ID: 2859461)
 - Chloride
 - Sulfate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWB-4R		Lab ID: 2630818001		Collected: 04/07/20 09:32		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.74	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	62.1	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 17:57	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 17:57	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 17:34	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 17:34	7440-38-2	
Barium	0.090	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 17:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 17:34	7440-41-7	
Boron	5.5	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 17:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 17:34	7440-43-9	
Chromium	0.0028J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 17:34	7440-47-3	
Cobalt	0.00090J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 17:34	7440-48-4	
Lead	0.00073J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 17:34	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 17:34	7439-93-2	
Molybdenum	0.13	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 17:34	7439-98-7	
Selenium	0.0025J	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 17:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 17:34	7440-28-0	
Vanadium	0.0037J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 17:34	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	482	mg/L	10.0	10.0	1		04/09/20 11:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.5	mg/L	1.0	0.60	1		04/10/20 05:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 05:47	16984-48-8	
Sulfate	221	mg/L	5.0	2.5	5		04/10/20 21:17	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-1		Lab ID: 2630818002		Collected: 04/07/20 11:30		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.30	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	31.1	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:00	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:00	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:08	7440-36-0	
Arsenic	0.027	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:08	7440-38-2	
Barium	0.050	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:08	7440-41-7	
Boron	1.0	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:08	7440-43-9	
Chromium	0.0015J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:08	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:08	7439-93-2	
Molybdenum	0.014	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:08	7439-98-7	
Selenium	0.0013J	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:08	7782-49-2	
Thallium	0.000054J	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:08	7440-28-0	
Vanadium	0.0015J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:08	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	195	mg/L	10.0	10.0	1		04/09/20 11:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.7	mg/L	1.0	0.60	1		04/10/20 06:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 06:02	16984-48-8	
Sulfate	83.0	mg/L	1.0	0.50	1		04/10/20 06:02	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWB-5R		Lab ID: 2630818003		Collected: 04/07/20 15:35		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.45	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	34.1	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:04	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:04	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:14	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:14	7440-38-2	
Barium	0.098	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:14	7440-41-7	
Boron	4.6	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:14	7440-43-9	
Chromium	0.0022J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:14	7440-47-3	
Cobalt	0.00053J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:14	7440-48-4	
Lead	0.0014J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:14	7440-28-0	
Vanadium	0.0053J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:14	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	483	mg/L	10.0	10.0	1		04/09/20 11:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	44.3	mg/L	1.0	0.60	1		04/10/20 06:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 06:17	16984-48-8	
Sulfate	180	mg/L	4.0	2.0	4		04/10/20 21:32	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWB-6R		Lab ID: 2630818004		Collected: 04/07/20 16:58		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.86	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	7.8	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:07	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:07	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.015	0.0014	5	04/13/20 13:00	04/13/20 18:19	7440-36-0	D3
Arsenic	ND	mg/L	0.025	0.0018	5	04/13/20 13:00	04/13/20 18:19	7440-38-2	D3
Barium	0.010J	mg/L	0.050	0.0024	5	04/13/20 13:00	04/13/20 18:19	7440-39-3	D3
Beryllium	ND	mg/L	0.015	0.00037	5	04/13/20 13:00	04/13/20 18:19	7440-41-7	D3
Boron	5.6	mg/L	0.50	0.025	5	04/13/20 13:00	04/13/20 18:19	7440-42-8	
Cadmium	ND	mg/L	0.012	0.00057	5	04/13/20 13:00	04/13/20 18:19	7440-43-9	D3
Chromium	0.0094J	mg/L	0.050	0.0020	5	04/13/20 13:00	04/13/20 18:19	7440-47-3	D3
Cobalt	ND	mg/L	0.025	0.0015	5	04/13/20 13:00	04/13/20 18:19	7440-48-4	D3
Lead	0.00063J	mg/L	0.025	0.00023	5	04/13/20 13:00	04/13/20 18:19	7439-92-1	D3
Lithium	ND	mg/L	0.15	0.0039	5	04/13/20 13:00	04/13/20 18:19	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0047	5	04/13/20 13:00	04/13/20 18:19	7439-98-7	D3
Selenium	ND	mg/L	0.050	0.0063	5	04/13/20 13:00	04/13/20 18:19	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00026	5	04/13/20 13:00	04/13/20 18:19	7440-28-0	D3
Vanadium	0.041J	mg/L	0.050	0.0035	5	04/13/20 13:00	04/13/20 18:19	7440-62-2	B,D3
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	775	mg/L	10.0	10.0	1		04/09/20 11:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	56.4	mg/L	1.0	0.60	1		04/10/20 06:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 06:32	16984-48-8	
Sulfate	180	mg/L	4.0	2.0	4		04/10/20 21:47	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-16		Lab ID: 2630818005		Collected: 04/07/20 10:45		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.94	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	225	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:11	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:11	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.015	0.0014	5	04/13/20 13:00	04/14/20 16:19	7440-36-0	
Arsenic	0.091	mg/L	0.025	0.0018	5	04/13/20 13:00	04/14/20 16:19	7440-38-2	
Barium	0.13	mg/L	0.050	0.0024	5	04/13/20 13:00	04/14/20 16:19	7440-39-3	
Beryllium	ND	mg/L	0.015	0.00037	5	04/13/20 13:00	04/14/20 16:19	7440-41-7	
Boron	10.5	mg/L	0.50	0.025	5	04/13/20 13:00	04/14/20 16:19	7440-42-8	
Cadmium	ND	mg/L	0.012	0.00057	5	04/13/20 13:00	04/14/20 16:19	7440-43-9	
Chromium	ND	mg/L	0.050	0.0020	5	04/13/20 13:00	04/14/20 16:19	7440-47-3	
Cobalt	ND	mg/L	0.025	0.0015	5	04/13/20 13:00	04/14/20 16:19	7440-48-4	
Lead	0.00023J	mg/L	0.025	0.00023	5	04/13/20 13:00	04/14/20 16:19	7439-92-1	
Lithium	ND	mg/L	0.15	0.0039	5	04/13/20 13:00	04/14/20 16:19	7439-93-2	
Molybdenum	0.25	mg/L	0.050	0.0047	5	04/13/20 13:00	04/14/20 16:19	7439-98-7	
Selenium	ND	mg/L	0.050	0.0063	5	04/13/20 13:00	04/14/20 16:19	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00026	5	04/13/20 13:00	04/14/20 16:19	7440-28-0	
Vanadium	ND	mg/L	0.050	0.0035	5	04/13/20 13:00	04/14/20 16:19	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	1500	mg/L	10.0	10.0	1		04/09/20 11:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	49.3	mg/L	1.0	0.60	1		04/10/20 06:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 06:47	16984-48-8	
Sulfate	844	mg/L	16.0	8.0	16		04/10/20 22:02	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-21		Lab ID: 2630818006		Collected: 04/07/20 13:45		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.00	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	12.5	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:15	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:15	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:31	7440-38-2	
Barium	0.054	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:31	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:31	7440-41-7	
Boron	0.24	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:31	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:31	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:31	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:31	7439-98-7	
Selenium	0.012	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:31	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:31	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	106	mg/L	10.0	10.0	1		04/09/20 11:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		04/10/20 07:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 07:47	16984-48-8	
Sulfate	33.2	mg/L	1.0	0.50	1		04/10/20 07:47	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: GWC-15		Lab ID: 2630818007		Collected: 04/07/20 16:10		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.83	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	129	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:18	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:18	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:37	7440-36-0	
Arsenic	0.24	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:37	7440-38-2	
Barium	0.033	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:37	7440-41-7	
Boron	0.96	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:37	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:37	7440-48-4	
Lead	0.000086J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:37	7439-93-2	
Molybdenum	0.070	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:37	7439-98-7	
Selenium	0.0029J	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:37	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	428	mg/L	10.0	10.0	1		04/09/20 11:10		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.4	mg/L	1.0	0.60	1		04/10/20 08:02	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 08:02	16984-48-8	
Sulfate	26.9	mg/L	1.0	0.50	1		04/10/20 08:02	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-14		Lab ID: 2630818008		Collected: 04/07/20 13:55		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.20	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	135	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:22	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:22	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:42	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:42	7440-38-2	
Barium	0.073	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:42	7440-41-7	
Boron	0.061J	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:42	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:42	7440-43-9	
Chromium	0.00074J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:42	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:42	7439-93-2	
Molybdenum	0.014	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:42	7439-98-7	
Selenium	0.0050J	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:42	7440-28-0	
Vanadium	0.0026J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:42	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	843	mg/L	10.0	10.0	1		04/30/20 11:05		H1
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	41.6	mg/L	1.0	0.60	1		04/10/20 08:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 08:17	16984-48-8	
Sulfate	456	mg/L	9.0	4.5	9		04/10/20 22:17	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: FB-1-4-6-20		Lab ID: 2630818009		Collected: 04/07/20 17:05	Received: 04/08/20 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA							
Calcium	ND	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:25	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:25	7440-66-6	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA							
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:48	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:48	7440-41-7	
Boron	0.0056J	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:48	7440-62-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/09/20 11:25		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		04/10/20 08:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 08:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/10/20 08:32	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: DUP-1		Lab ID: 2630818010		Collected: 04/07/20 00:00		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA							
Calcium	30.9	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:35	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:35	7440-66-6	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA							
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:54	7440-36-0	
Arsenic	0.027	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:54	7440-38-2	
Barium	0.050	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:54	7440-41-7	
Boron	0.98	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:54	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:54	7440-43-9	
Chromium	0.0015J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:54	7440-48-4	
Lead	0.000053J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:54	7439-93-2	
Molybdenum	0.014	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:54	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:54	7440-28-0	
Vanadium	0.0016J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:54	7440-62-2	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA							
Total Dissolved Solids	248	mg/L	10.0	10.0	1		04/09/20 11:26		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	7.8	mg/L	1.0	0.60	1		04/10/20 08:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 08:47	16984-48-8	M1
Sulfate	82.4	mg/L	1.0	0.50	1		04/10/20 08:47	14808-79-8	M1

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWA-8		Lab ID: 2630818011		Collected: 04/06/20 14:40		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.52	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	35.8	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:39	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:39	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 18:59	7440-36-0	
Arsenic	0.00045J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 18:59	7440-38-2	
Barium	0.057	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 18:59	7440-39-3	
Beryllium	0.00017J	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 18:59	7440-41-7	
Boron	0.14	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 18:59	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 18:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 18:59	7440-47-3	
Cobalt	0.00036J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 18:59	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 18:59	7439-92-1	
Lithium	0.00086J	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 18:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 18:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 18:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 18:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 18:59	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	214	mg/L	10.0	10.0	1		04/09/20 11:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.5	mg/L	1.0	0.60	1		04/10/20 09:32	16887-00-6	
Fluoride	0.089J	mg/L	0.30	0.050	1		04/10/20 09:32	16984-48-8	
Sulfate	123	mg/L	3.0	1.5	3		04/10/20 23:03	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWA-7		Lab ID: 2630818012		Collected: 04/06/20 16:10		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.02	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	3.1	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:42	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:42	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.015	0.0014	5	04/13/20 13:00	04/13/20 19:17	7440-36-0	D3
Arsenic	ND	mg/L	0.025	0.0018	5	04/13/20 13:00	04/13/20 19:17	7440-38-2	D3
Barium	0.072	mg/L	0.050	0.0024	5	04/13/20 13:00	04/13/20 19:17	7440-39-3	
Beryllium	ND	mg/L	0.015	0.00037	5	04/13/20 13:00	04/13/20 19:17	7440-41-7	D3
Boron	6.1	mg/L	0.50	0.025	5	04/13/20 13:00	04/13/20 19:17	7440-42-8	
Cadmium	ND	mg/L	0.012	0.00057	5	04/13/20 13:00	04/13/20 19:17	7440-43-9	D3
Chromium	0.015J	mg/L	0.050	0.0020	5	04/13/20 13:00	04/13/20 19:17	7440-47-3	D3
Cobalt	0.0021J	mg/L	0.025	0.0015	5	04/13/20 13:00	04/13/20 19:17	7440-48-4	D3
Lead	0.0024J	mg/L	0.025	0.00023	5	04/13/20 13:00	04/13/20 19:17	7439-92-1	D3
Lithium	ND	mg/L	0.15	0.0039	5	04/13/20 13:00	04/13/20 19:17	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0047	5	04/13/20 13:00	04/13/20 19:17	7439-98-7	D3
Selenium	0.0078J	mg/L	0.050	0.0063	5	04/13/20 13:00	04/13/20 19:17	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00026	5	04/13/20 13:00	04/13/20 19:17	7440-28-0	D3
Vanadium	0.12	mg/L	0.050	0.0035	5	04/13/20 13:00	04/13/20 19:17	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	1670	mg/L	10.0	10.0	1		04/09/20 11:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	30.2	mg/L	1.0	0.60	1		04/10/20 09:47	16887-00-6	
Fluoride	0.13J	mg/L	0.30	0.050	1		04/10/20 09:47	16984-48-8	
Sulfate	20.3	mg/L	1.0	0.50	1		04/10/20 09:47	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-12		Lab ID: 2630818013		Collected: 04/07/20 10:00		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.10	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	52.1	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:46	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:46	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 19:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 19:22	7440-38-2	
Barium	0.017	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 19:22	7440-39-3	
Beryllium	0.00051J	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 19:22	7440-41-7	
Boron	5.3	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 19:22	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 19:22	7440-43-9	
Chromium	0.00082J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 19:22	7440-47-3	
Cobalt	0.00077J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 19:22	7440-48-4	
Lead	0.00081J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 19:22	7439-92-1	
Lithium	0.00094J	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 19:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 19:22	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 19:22	7782-49-2	
Thallium	0.00013J	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 19:22	7440-28-0	
Vanadium	0.0024J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 19:22	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	464	mg/L	10.0	10.0	1		04/09/20 11:26		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	32.5	mg/L	1.0	0.60	1		04/10/20 10:02	16887-00-6	
Fluoride	0.27J	mg/L	0.30	0.050	1		04/10/20 10:02	16984-48-8	
Sulfate	297	mg/L	7.0	3.5	7		04/11/20 00:02	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-11		Lab ID: 2630818014		Collected: 04/07/20 12:35		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.05	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	84.7	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:49	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:49	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	0.00066J	mg/L	0.0030	0.00027	1	04/28/20 17:43	04/29/20 17:16	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	04/28/20 17:43	04/29/20 17:16	7440-38-2	
Barium	0.14	mg/L	0.010	0.00049	1	04/28/20 17:43	04/29/20 17:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/28/20 17:43	04/29/20 17:16	7440-41-7	
Boron	0.67	mg/L	0.10	0.0049	1	04/28/20 17:43	04/29/20 17:16	7440-42-8	
Cadmium	0.00051J	mg/L	0.0025	0.00011	1	04/28/20 17:43	04/29/20 17:16	7440-43-9	
Chromium	0.00094J	mg/L	0.010	0.00039	1	04/28/20 17:43	04/29/20 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/28/20 17:43	04/29/20 17:16	7440-48-4	
Lead	0.00036J	mg/L	0.0050	0.000046	1	04/28/20 17:43	04/29/20 17:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/28/20 17:43	04/29/20 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/28/20 17:43	04/29/20 17:16	7439-98-7	
Selenium	0.0021J	mg/L	0.010	0.0013	1	04/28/20 17:43	04/29/20 17:16	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.000052	1	04/28/20 17:43	04/29/20 17:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/28/20 17:43	04/29/20 17:16	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	780	mg/L	10.0	10.0	1		04/09/20 11:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	103	mg/L	9.0	5.4	9		04/11/20 00:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 11:02	16984-48-8	
Sulfate	446	mg/L	9.0	4.5	9		04/11/20 00:17	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: GWC-22		Lab ID: 2630818015		Collected: 04/07/20 15:40		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.80	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	65.7	mg/L	1.0	0.14	1	04/17/20 14:16	04/20/20 18:41	7440-70-2	M1
Zinc	ND	mg/L	0.020	0.018	1	04/17/20 14:16	04/20/20 18:41	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	0.00049J	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 19:34	7440-36-0	
Arsenic	0.00043J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 19:34	7440-38-2	
Barium	0.10	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 19:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 19:34	7440-41-7	
Boron	3.1	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 19:34	7440-42-8	
Cadmium	0.00054J	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 19:34	7440-43-9	
Chromium	0.00049J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 19:34	7440-47-3	
Cobalt	0.00037J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 19:34	7440-48-4	
Lead	0.00067J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 19:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 19:34	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 19:34	7782-49-2	
Thallium	0.000065J	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 19:34	7440-28-0	
Vanadium	0.0014J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 19:34	7440-62-2	B
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	819	mg/L	10.0	10.0	1		04/09/20 11:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	146	mg/L	7.0	4.2	7		04/11/20 00:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 11:17	16984-48-8	
Sulfate	333	mg/L	7.0	3.5	7		04/11/20 00:32	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: EB-1-4-7-2020		Lab ID: 2630818016		Collected: 04/07/20 13:30		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA							
Calcium	ND	mg/L	1.0	0.14	1	04/16/20 13:14	04/16/20 18:53	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/16/20 13:14	04/16/20 18:53	7440-66-6	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA							
Antimony	ND	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 19:45	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 19:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 19:45	7440-41-7	
Boron	0.0090J	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 19:45	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 19:45	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 19:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 19:45	7440-48-4	
Lead	0.000072J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 19:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 19:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 19:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 19:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 19:45	7440-62-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/09/20 11:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		04/10/20 11:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/10/20 11:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/10/20 11:32	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-13		Lab ID: 2630818017		Collected: 04/08/20 09:53		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.81	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	2.5	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 17:25	7440-70-2	
Zinc	0.023	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 17:25	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 16:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 16:27	7440-38-2	
Barium	0.027	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 16:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 16:27	7440-41-7	
Boron	0.28	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 16:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 16:27	7440-43-9	
Chromium	0.00058J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 16:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 16:27	7440-48-4	
Lead	0.00017J	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 16:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 16:27	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 16:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 16:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 16:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 16:27	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		04/14/20 17:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.5	mg/L	1.0	0.60	1		04/14/20 15:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 15:50	16984-48-8	
Sulfate	30.7	mg/L	1.0	0.50	1		04/14/20 15:50	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-2		Lab ID: 2630818018		Collected: 04/08/20 12:25		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.66	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	0.24J	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 17:28	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 17:28	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.0013J	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 16:50	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 16:50	7440-38-2	
Barium	0.061	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 16:50	7440-39-3	
Beryllium	0.000088J	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 16:50	7440-41-7	
Boron	0.031J	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 16:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 16:50	7440-43-9	
Chromium	0.00069J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 16:50	7440-47-3	
Cobalt	0.00036J	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 16:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 16:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 16:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 16:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 16:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 16:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 16:50	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	38.0	mg/L	10.0	10.0	1		04/14/20 17:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.2	mg/L	1.0	0.60	1		04/14/20 16:04	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 16:04	16984-48-8	
Sulfate	12.9	mg/L	1.0	0.50	1		04/14/20 16:04	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: GWC-9		Lab ID: 2630818019		Collected: 04/08/20 10:00		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.73	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	5.3	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 17:32	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 17:32	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	0.00033J	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 16:56	7440-36-0	
Arsenic	0.00084J	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 16:56	7440-38-2	
Barium	0.15	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 16:56	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 16:56	7440-41-7	
Boron	0.023J	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 16:56	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 16:56	7440-43-9	
Chromium	0.0015J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 16:56	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 16:56	7440-48-4	
Lead	0.00021J	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 16:56	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 16:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 16:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 16:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 16:56	7440-28-0	
Vanadium	0.0015J	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 16:56	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	80.0	mg/L	10.0	10.0	1		04/14/20 17:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	16.9	mg/L	1.0	0.60	1		04/14/20 16:19	16887-00-6	
Fluoride	0.058J	mg/L	0.30	0.050	1		04/14/20 16:19	16984-48-8	
Sulfate	34.2	mg/L	1.0	0.50	1		04/14/20 16:19	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: GWC-20		Lab ID: 2630818020		Collected: 04/08/20 12:00		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.31	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	175	mg/L	1.0	0.14	1	04/28/20 17:46	04/29/20 16:55	7440-70-2	M1
Zinc	ND	mg/L	0.020	0.018	1	04/28/20 17:46	04/29/20 16:55	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 17:23	7440-36-0	
Arsenic	0.33	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 17:23	7440-38-2	
Barium	0.19	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 17:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 17:23	7440-41-7	
Boron	2.5	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 17:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 17:23	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 17:23	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 17:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 17:23	7439-93-2	
Molybdenum	0.060	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 17:23	7439-98-7	
Selenium	0.0013J	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 17:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 17:23	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	986	mg/L	10.0	10.0	1		04/14/20 17:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	20.2	mg/L	1.0	0.60	1		04/14/20 16:33	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 16:33	16984-48-8	
Sulfate	428	mg/L	9.0	4.5	9		04/15/20 10:07	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: GWC-17		Lab ID: 2630818021		Collected: 04/08/20 15:35		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.71	Std. Units			1		04/13/20 10:26		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	53.1	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 18:17	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 18:17	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 17:28	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 17:28	7440-38-2	
Barium	0.055	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 17:28	7440-39-3	
Beryllium	0.0017J	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 17:28	7440-41-7	
Boron	0.99	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 17:28	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 17:28	7440-43-9	
Chromium	0.00073J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 17:28	7440-47-3	
Cobalt	0.0024J	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 17:28	7440-48-4	
Lead	0.000084J	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 17:28	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 17:28	7439-93-2	
Molybdenum	0.0024J	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 17:28	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 17:28	7782-49-2	
Thallium	0.000056J	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 17:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 17:28	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	881	mg/L	10.0	10.0	1		04/14/20 17:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	277	mg/L	6.0	3.6	6		04/15/20 10:22	16887-00-6	
Fluoride	0.55	mg/L	0.30	0.050	1		04/14/20 16:48	16984-48-8	
Sulfate	239	mg/L	6.0	3.0	6		04/15/20 10:22	14808-79-8	

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Sample: EB-2-4-7-20		Lab ID: 2630818022		Collected: 04/08/20 14:45		Received: 04/09/20 09:21		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 18:20	7440-70-2		
Zinc	ND	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 18:20	7440-66-6		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 17:34	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 17:34	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 17:34	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 17:34	7440-41-7		
Boron	0.0083J	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 17:34	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 17:34	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 17:34	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 17:34	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 17:34	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 17:34	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 17:34	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 17:34	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 17:34	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 17:34	7440-62-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/14/20 17:48			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/14/20 17:02	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 17:02	16984-48-8	M1	
Sulfate	ND	mg/L	1.0	0.50	1		04/14/20 17:02	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: FB-2-4-7-20		Lab ID: 2630818023		Collected: 04/08/20 12:30	Received: 04/09/20 09:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 18:24	7440-70-2		
Zinc	ND	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 18:24	7440-66-6		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 17:40	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 17:40	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 17:40	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 17:40	7440-41-7		
Boron	ND	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 17:40	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 17:40	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 17:40	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 17:40	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 17:40	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 17:40	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 17:40	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 17:40	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 17:40	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 17:40	7440-62-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/14/20 17:48			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/14/20 18:30	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 18:30	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/14/20 18:30	14808-79-8		

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Sample: DUP-2		Lab ID: 2630818024		Collected: 04/08/20 00:00		Received: 04/09/20 09:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	2.6	mg/L	1.0	0.14	1	04/14/20 18:37	04/15/20 18:27	7440-70-2	
Zinc	0.020	mg/L	0.020	0.018	1	04/14/20 18:37	04/15/20 18:27	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	04/14/20 18:32	04/15/20 17:46	7440-36-0	
Arsenic	0.00045J	mg/L	0.0050	0.00035	1	04/14/20 18:32	04/15/20 17:46	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	04/14/20 18:32	04/15/20 17:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	04/14/20 18:32	04/15/20 17:46	7440-41-7	
Boron	0.26	mg/L	0.10	0.0049	1	04/14/20 18:32	04/15/20 17:46	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	04/14/20 18:32	04/15/20 17:46	7440-43-9	
Chromium	0.00043J	mg/L	0.010	0.00039	1	04/14/20 18:32	04/15/20 17:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	04/14/20 18:32	04/15/20 17:46	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000046	1	04/14/20 18:32	04/15/20 17:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	04/14/20 18:32	04/15/20 17:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	04/14/20 18:32	04/15/20 17:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	04/14/20 18:32	04/15/20 17:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	04/14/20 18:32	04/15/20 17:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	04/14/20 18:32	04/15/20 17:46	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		04/14/20 17:49		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.5	mg/L	1.0	0.60	1		04/14/20 18:44	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		04/14/20 18:44	16984-48-8	
Sulfate	31.0	mg/L	1.0	0.50	1		04/14/20 18:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch: 45533 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Laboratory: Pace Analytical Services - Atlanta, GA
 Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818021, 2630818022, 2630818023, 2630818024

METHOD BLANK: 210181 Matrix: Water
 Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818021, 2630818022, 2630818023, 2630818024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/15/20 16:53	
Zinc	mg/L	ND	0.020	0.018	04/15/20 16:53	

LABORATORY CONTROL SAMPLE: 210182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Zinc	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210190 210191

Parameter	Units	2630862003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	362	1	1	368	365	604	379	75-125	1	20	M6
Zinc	mg/L	0.038	1	1	1.0	1.0	97	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch:	45592	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818016

METHOD BLANK: 210512 Matrix: Water

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/16/20 17:18	
Zinc	mg/L	ND	0.020	0.018	04/16/20 17:18	

LABORATORY CONTROL SAMPLE: 210513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Zinc	mg/L	1	0.85	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210528 210529

Parameter	Units	2630908002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	258	1	1	262	265	333	619	75-125	1	20	M1
Zinc	mg/L	ND	1	1	0.92	0.93	91	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch: 45628

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818015

METHOD BLANK: 210934

Matrix: Water

Associated Lab Samples: 2630818015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/20/20 18:27	
Zinc	mg/L	ND	0.020	0.018	04/20/20 18:27	

LABORATORY CONTROL SAMPLE: 210935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Zinc	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210936 210937

Parameter	Units	2630818015		210936		210937		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	65.7	1	1	69.0	69.1	326	340	75-125	0	20 M1
Zinc	mg/L	ND	1	1	0.99	1.0	99	101	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch: 45905	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D MET
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818020

METHOD BLANK: 212457 Matrix: Water

Associated Lab Samples: 2630818020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	04/29/20 16:46	
Zinc	mg/L	ND	0.020	0.018	04/29/20 16:46	

LABORATORY CONTROL SAMPLE: 212458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Zinc	mg/L	1	0.90	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 212459 212460

Parameter	Units	2630818020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	175	1	1	177	174	154	-107	75-125	1	20	M1
Zinc	mg/L	ND	1	1	0.85	0.85	85	85	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

QC Batch:	45464	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818015, 2630818016

METHOD BLANK: 209861 Matrix: Water
Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818015, 2630818016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/13/20 16:42	
Arsenic	mg/L	ND	0.0050	0.00035	04/13/20 16:42	
Barium	mg/L	ND	0.010	0.00049	04/13/20 16:42	
Beryllium	mg/L	ND	0.0030	0.000074	04/13/20 16:42	
Boron	mg/L	ND	0.10	0.0049	04/13/20 16:42	
Cadmium	mg/L	ND	0.0025	0.00011	04/13/20 16:42	
Chromium	mg/L	ND	0.010	0.00039	04/13/20 16:42	
Cobalt	mg/L	ND	0.0050	0.00030	04/13/20 16:42	
Lead	mg/L	ND	0.0050	0.000046	04/13/20 16:42	
Lithium	mg/L	ND	0.030	0.00078	04/13/20 16:42	
Molybdenum	mg/L	ND	0.010	0.00095	04/13/20 16:42	
Selenium	mg/L	ND	0.010	0.0013	04/13/20 16:42	
Thallium	mg/L	ND	0.0010	0.000052	04/13/20 16:42	
Vanadium	mg/L	0.0018J	0.010	0.00071	04/13/20 16:42	

LABORATORY CONTROL SAMPLE: 209862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	105	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.11	107	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lead	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	105	80-120	
Thallium	mg/L	0.1	0.11	107	80-120	
Vanadium	mg/L	0.1	0.11	108	80-120	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Parameter	Units	209904			209905			% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		2630907001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	113	109	75-125	4	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	3	20			
Barium	mg/L	0.18	0.1	0.1	0.28	0.28	99	98	75-125	1	20			
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20			
Boron	mg/L	0.74	1	1	1.8	1.9	109	111	75-125	1	20			
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	4	20			
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	105	101	75-125	4	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	3	20			
Lead	mg/L	0.00026J	0.1	0.1	0.10	0.097	100	97	75-125	4	20			
Lithium	mg/L	0.20	0.1	0.1	0.30	0.31	102	108	75-125	2	20			
Molybdenum	mg/L	0.014	0.1	0.1	0.13	0.12	113	107	75-125	5	20			
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	96	98	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20			
Vanadium	mg/L	ND	0.1	0.1	0.11	0.10	110	104	75-125	6	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

QC Batch: 45531	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Atlanta, GA	

Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818020, 2630818021, 2630818022, 2630818023, 2630818024

METHOD BLANK: 210136 Matrix: Water
Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818020, 2630818021, 2630818022, 2630818023, 2630818024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	04/15/20 16:04	
Arsenic	mg/L	ND	0.0050	0.00035	04/15/20 16:04	
Barium	mg/L	ND	0.010	0.00049	04/15/20 16:04	
Beryllium	mg/L	ND	0.0030	0.000074	04/15/20 16:04	
Boron	mg/L	ND	0.10	0.0049	04/15/20 16:04	
Cadmium	mg/L	ND	0.0025	0.00011	04/15/20 16:04	
Chromium	mg/L	ND	0.010	0.00039	04/15/20 16:04	
Cobalt	mg/L	ND	0.0050	0.00030	04/15/20 16:04	
Lead	mg/L	ND	0.0050	0.000046	04/15/20 16:04	
Lithium	mg/L	ND	0.030	0.00078	04/15/20 16:04	
Molybdenum	mg/L	ND	0.010	0.00095	04/15/20 16:04	
Selenium	mg/L	ND	0.010	0.0013	04/15/20 16:04	
Thallium	mg/L	ND	0.0010	0.000052	04/15/20 16:04	
Vanadium	mg/L	ND	0.010	0.00071	04/15/20 16:04	

LABORATORY CONTROL SAMPLE: 210137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Parameter	Units	2630818017		210192		210193		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	104	75-125	2	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	99	75-125	1	20			
Barium	mg/L	0.027	0.1	0.1	0.13	0.13	100	99	75-125	1	20			
Beryllium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	1	20			
Boron	mg/L	0.28	1	1	1.2	1.2	92	91	75-125	1	20			
Cadmium	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	3	20			
Chromium	mg/L	0.00058J	0.1	0.1	0.10	0.10	102	101	75-125	2	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20			
Lead	mg/L	0.00017J	0.1	0.1	0.10	0.099	101	99	75-125	2	20			
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20			
Molybdenum	mg/L	0.0056J	0.1	0.1	0.10	0.10	97	95	75-125	2	20			
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20			
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	1	20			

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch: 45904	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020B MET
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818014

METHOD BLANK: 212453 Matrix: Water

Associated Lab Samples: 2630818014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00034J	0.0030	0.00027	04/29/20 17:04	
Arsenic	mg/L	0.0012J	0.0050	0.00035	04/29/20 17:04	
Barium	mg/L	ND	0.010	0.00049	04/29/20 17:04	
Beryllium	mg/L	ND	0.0030	0.000074	04/29/20 17:04	
Boron	mg/L	ND	0.10	0.0049	04/29/20 17:04	
Cadmium	mg/L	ND	0.0025	0.00011	04/29/20 17:04	
Chromium	mg/L	ND	0.010	0.00039	04/29/20 17:04	
Cobalt	mg/L	ND	0.0050	0.00030	04/29/20 17:04	
Lead	mg/L	ND	0.0050	0.000046	04/29/20 17:04	
Lithium	mg/L	ND	0.030	0.00078	04/29/20 17:04	
Molybdenum	mg/L	ND	0.010	0.00095	04/29/20 17:04	
Selenium	mg/L	ND	0.010	0.0013	04/29/20 17:04	
Thallium	mg/L	ND	0.0010	0.000052	04/29/20 17:04	
Vanadium	mg/L	0.0054J	0.010	0.00071	04/29/20 17:04	

LABORATORY CONTROL SAMPLE: 212454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	109	80-120	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

Parameter	Units	212455		212456		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2630818014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	0.00066J	0.1	0.1	0.098	0.099	98	98	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.14	0.1	0.1	0.23	0.23	94	94	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Boron	mg/L	0.67	1	1	1.7	1.8	106	113	75-125	4	20	
Cadmium	mg/L	0.00051J	0.1	0.1	0.097	0.099	97	98	75-125	2	20	
Chromium	mg/L	0.00094J	0.1	0.1	0.10	0.10	99	99	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.096	98	96	75-125	3	20	
Lead	mg/L	0.00036J	0.1	0.1	0.098	0.10	97	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.099	95	98	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	
Selenium	mg/L	0.0021J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Thallium	mg/L	0.00019J	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch:	45370	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016

LABORATORY CONTROL SAMPLE: 209272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	365	91	84-108	

SAMPLE DUPLICATE: 209273

Parameter	Units	92471969033 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2520	2610	4	10	

SAMPLE DUPLICATE: 209274

Parameter	Units	2630818007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	428	810	62	10	D6

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

QC Batch: 45512	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818020, 2630818021, 2630818022, 2630818023, 2630818024

LABORATORY CONTROL SAMPLE: 209985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	84-108	

SAMPLE DUPLICATE: 209986

Parameter	Units	2630821024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	223	244	9	10	

SAMPLE DUPLICATE: 209987

Parameter	Units	92473254002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	17.0	18.0	6	10	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch: 45964

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630818008

LABORATORY CONTROL SAMPLE: 212751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	407	102	84-108	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

QC Batch: 535486 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016

METHOD BLANK: 2857317 Matrix: Water
Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/10/20 04:32	
Fluoride	mg/L	ND	0.10	0.050	04/10/20 04:32	
Sulfate	mg/L	ND	1.0	0.50	04/10/20 04:32	

LABORATORY CONTROL SAMPLE: 2857318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857319 2857320

Parameter	Units	92472966003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	12.4	50	50	63.8	64.0	103	103	103	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	106	109	109	90-110	3	10	
Sulfate	mg/L	6.1	50	50	58.4	58.7	105	105	105	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857321 2857322

Parameter	Units	2630818010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	7.8	50	50	58.1	58.9	101	102	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	3.4	3.4	135	135	135	90-110	0	10 M1	
Sulfate	mg/L	82.4	50	50	120	121	76	77	77	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

QC Batch:	535954	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818020, 2630818021, 2630818022, 2630818023, 2630818024

METHOD BLANK: 2859458 Matrix: Water
Associated Lab Samples: 2630818017, 2630818018, 2630818019, 2630818020, 2630818021, 2630818022, 2630818023, 2630818024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/14/20 12:42	
Fluoride	mg/L	ND	0.10	0.050	04/14/20 12:42	
Sulfate	mg/L	ND	1.0	0.50	04/14/20 12:42	

LABORATORY CONTROL SAMPLE: 2859459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859460 2859461

Parameter	Units	2630873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	123	50	50	143	170	39	93	90-110	17	10	M1,R1
Fluoride	mg/L	0.64	2.5	2.5	3.2	3.2	101	103	90-110	2	10	
Sulfate	mg/L	96.8	50	50	120	144	47	93	90-110	18	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859462 2859463

Parameter	Units	2630818022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.2	51.9	102	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	116	115	90-110	1	10	M1
Sulfate	mg/L	ND	50	50	51.5	52.2	103	104	90-110	1	10	

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QUALIFIERS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630818

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630818001	GWB-4R				
2630818002	GWC-1				
2630818003	GWB-5R				
2630818004	GWB-6R				
2630818005	GWC-16				
2630818006	GWC-21				
2630818007	GWC-15				
2630818008	GWC-14				
2630818011	GWA-8				
2630818012	GWA-7				
2630818013	GWC-12				
2630818014	GWC-11				
2630818015	GWC-22				
2630818017	GWC-13				
2630818018	GWC-2				
2630818019	GWC-9				
2630818020	GWC-20				
2630818021	GWC-17				
2630818001	GWB-4R	EPA 3010A	45592	EPA 6010D	45599
2630818002	GWC-1	EPA 3010A	45592	EPA 6010D	45599
2630818003	GWB-5R	EPA 3010A	45592	EPA 6010D	45599
2630818004	GWB-6R	EPA 3010A	45592	EPA 6010D	45599
2630818005	GWC-16	EPA 3010A	45592	EPA 6010D	45599
2630818006	GWC-21	EPA 3010A	45592	EPA 6010D	45599
2630818007	GWC-15	EPA 3010A	45592	EPA 6010D	45599
2630818008	GWC-14	EPA 3010A	45592	EPA 6010D	45599
2630818009	FB-1-4-6-20	EPA 3010A	45592	EPA 6010D	45599
2630818010	DUP-1	EPA 3010A	45592	EPA 6010D	45599
2630818011	GWA-8	EPA 3010A	45592	EPA 6010D	45599
2630818012	GWA-7	EPA 3010A	45592	EPA 6010D	45599
2630818013	GWC-12	EPA 3010A	45592	EPA 6010D	45599
2630818014	GWC-11	EPA 3010A	45592	EPA 6010D	45599
2630818015	GWC-22	EPA 3010A	45628	EPA 6010D	45630
2630818016	EB-1-4-7-2020	EPA 3010A	45592	EPA 6010D	45599
2630818017	GWC-13	EPA 3010A	45533	EPA 6010D	45546
2630818018	GWC-2	EPA 3010A	45533	EPA 6010D	45546
2630818019	GWC-9	EPA 3010A	45533	EPA 6010D	45546
2630818020	GWC-20	EPA 3010A	45905	EPA 6010D	45910
2630818021	GWC-17	EPA 3010A	45533	EPA 6010D	45546
2630818022	EB-2-4-7-20	EPA 3010A	45533	EPA 6010D	45546
2630818023	FB-2-4-7-20	EPA 3010A	45533	EPA 6010D	45546
2630818024	DUP-2	EPA 3010A	45533	EPA 6010D	45546
2630818001	GWB-4R	EPA 3005A	45464	EPA 6020B	45489
2630818002	GWC-1	EPA 3005A	45464	EPA 6020B	45489
2630818003	GWB-5R	EPA 3005A	45464	EPA 6020B	45489

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630818004	GWB-6R	EPA 3005A	45464	EPA 6020B	45489
2630818005	GWC-16	EPA 3005A	45464	EPA 6020B	45489
2630818006	GWC-21	EPA 3005A	45464	EPA 6020B	45489
2630818007	GWC-15	EPA 3005A	45464	EPA 6020B	45489
2630818008	GWC-14	EPA 3005A	45464	EPA 6020B	45489
2630818009	FB-1-4-6-20	EPA 3005A	45464	EPA 6020B	45489
2630818010	DUP-1	EPA 3005A	45464	EPA 6020B	45489
2630818011	GWA-8	EPA 3005A	45464	EPA 6020B	45489
2630818012	GWA-7	EPA 3005A	45464	EPA 6020B	45489
2630818013	GWC-12	EPA 3005A	45464	EPA 6020B	45489
2630818014	GWC-11	EPA 3005A	45904	EPA 6020B	45908
2630818015	GWC-22	EPA 3005A	45464	EPA 6020B	45489
2630818016	EB-1-4-7-2020	EPA 3005A	45464	EPA 6020B	45489
2630818017	GWC-13	EPA 3005A	45531	EPA 6020B	45544
2630818018	GWC-2	EPA 3005A	45531	EPA 6020B	45544
2630818019	GWC-9	EPA 3005A	45531	EPA 6020B	45544
2630818020	GWC-20	EPA 3005A	45531	EPA 6020B	45544
2630818021	GWC-17	EPA 3005A	45531	EPA 6020B	45544
2630818022	EB-2-4-7-20	EPA 3005A	45531	EPA 6020B	45544
2630818023	FB-2-4-7-20	EPA 3005A	45531	EPA 6020B	45544
2630818024	DUP-2	EPA 3005A	45531	EPA 6020B	45544
2630818001	GWB-4R	SM 2540C	45370		
2630818002	GWC-1	SM 2540C	45370		
2630818003	GWB-5R	SM 2540C	45370		
2630818004	GWB-6R	SM 2540C	45370		
2630818005	GWC-16	SM 2540C	45370		
2630818006	GWC-21	SM 2540C	45370		
2630818007	GWC-15	SM 2540C	45370		
2630818008	GWC-14	SM 2540C	45964		
2630818009	FB-1-4-6-20	SM 2540C	45370		
2630818010	DUP-1	SM 2540C	45370		
2630818011	GWA-8	SM 2540C	45370		
2630818012	GWA-7	SM 2540C	45370		
2630818013	GWC-12	SM 2540C	45370		
2630818014	GWC-11	SM 2540C	45370		
2630818015	GWC-22	SM 2540C	45370		
2630818016	EB-1-4-7-2020	SM 2540C	45370		
2630818017	GWC-13	SM 2540C	45512		
2630818018	GWC-2	SM 2540C	45512		
2630818019	GWC-9	SM 2540C	45512		
2630818020	GWC-20	SM 2540C	45512		
2630818021	GWC-17	SM 2540C	45512		
2630818022	EB-2-4-7-20	SM 2540C	45512		
2630818023	FB-2-4-7-20	SM 2540C	45512		
2630818024	DUP-2	SM 2540C	45512		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630818001	GWB-4R	EPA 300.0 Rev 2.1 1993	535486		
2630818002	GWC-1	EPA 300.0 Rev 2.1 1993	535486		
2630818003	GWB-5R	EPA 300.0 Rev 2.1 1993	535486		
2630818004	GWB-6R	EPA 300.0 Rev 2.1 1993	535486		
2630818005	GWC-16	EPA 300.0 Rev 2.1 1993	535486		
2630818006	GWC-21	EPA 300.0 Rev 2.1 1993	535486		
2630818007	GWC-15	EPA 300.0 Rev 2.1 1993	535486		
2630818008	GWC-14	EPA 300.0 Rev 2.1 1993	535486		
2630818009	FB-1-4-6-20	EPA 300.0 Rev 2.1 1993	535486		
2630818010	DUP-1	EPA 300.0 Rev 2.1 1993	535486		
2630818011	GWA-8	EPA 300.0 Rev 2.1 1993	535486		
2630818012	GWA-7	EPA 300.0 Rev 2.1 1993	535486		
2630818013	GWC-12	EPA 300.0 Rev 2.1 1993	535486		
2630818014	GWC-11	EPA 300.0 Rev 2.1 1993	535486		
2630818015	GWC-22	EPA 300.0 Rev 2.1 1993	535486		
2630818016	EB-1-4-7-2020	EPA 300.0 Rev 2.1 1993	535486		
2630818017	GWC-13	EPA 300.0 Rev 2.1 1993	535954		
2630818018	GWC-2	EPA 300.0 Rev 2.1 1993	535954		
2630818019	GWC-9	EPA 300.0 Rev 2.1 1993	535954		
2630818020	GWC-20	EPA 300.0 Rev 2.1 1993	535954		
2630818021	GWC-17	EPA 300.0 Rev 2.1 1993	535954		
2630818022	EB-2-4-7-20	EPA 300.0 Rev 2.1 1993	535954		
2630818023	FB-2-4-7-20	EPA 300.0 Rev 2.1 1993	535954		
2630818024	DUP-2	EPA 300.0 Rev 2.1 1993	535954		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information Company: GA Power Address: Atlanta, GA	Section B Requested Project Information Report To: SCS Contacts Copy To: ACC Contacts	Section C Invoice Information Advertiser: Southern Co. Company Name:	Page: 1 of 3
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Email To: SCS Contacts Phone: Fax Requested Date/Time: 11 Day	Purchase Order No.: Project Name: Grunman Road - 1st 2020 SA GWM Project Number:	Address: PACE CODE: Reference: Kevin Herring Project Manager: Pace Profile #: 2828-1	REGULATORY AGENCY <input type="checkbox"/> NIDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER CCR
---	--	--	---

ITEM #	Section D Required Client Information Valid Matrix Codes MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	N ₂ S ₂ O ₅	Methanol	Other							
1	GWB-4R	WT 6	4/27/20	0932	5	2	3												
2	GWC-1	WT 6	4/27/20	1130	5	2	3												
3	GWB-5R	WT 6	4/27/20	1535	5	2	3												
4	GWB-6R	WT 6	4/27/20	1658	5	2	3												
5	GWC-16	WT 6	4/27/20	1045	5	2	3												
6	GWC-21	WT 6	4/27/20	1345	5	2	3												
7	GWC-15	WT 6	4/27/20	1610	5	2	3												
8	GWC-14	WT 6	4/27/20	1305	5	2	3												
9					5	2	3												
10	EB-1-4-0-70	WT 6	4/27/20	1705	5	2	3												
11		WT 6	4/27/20	1705	5	2	3												
12	DWP-1	WT 6	4/27/20		5	2	3												

ADDITIONAL COMMENTS Requested by Affiliation: PACE Date: 4/27/20 Time: 0830 Accepted by Affiliation: Eleanor Cole Date: 4/27/20 Time: 0832	PACE PROJECT NO./ LAB ID: 25306416	pH= 5.74 pH= 5.36 pH= 5.45 pH= 5.86 pH= 5.94 pH= 6.00 pH= 6.83 pH= 6.20
--	---------------------------------------	--

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-0207rv.07, 15-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Requested Client Information
Section B Requested Project Information
Section C Analytical Information

Company: GA Power
Address: Atlanta, GA
Report To: SCS Contacts
Copy To: ACC Contacts
Project Name: Gunman Road - 1st 2020 SA GWM
Company Name: Southern Co.
Address: Peach County
Reference: Kevin Henning
Requester: Kevin Henning
Phone: []
Requested Date/Time: 10 Day
Project Number: 2926-1
Requested Analysis: Filtered (Y/N)
REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Site Location: []
STATE: GA

ITEM #	Section D Required Client Information Valid Matrix Codes MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requester Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab ID.	
		DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					TDS
1	GWA-8	W	4/6/20 1440	5	2												pH= 4.52
2	GWA-7	W	4/6/20 1618	5	2												pH= 6.02
3	GWC-12	W	4/7/20 1000	5	2												pH= 4.10
4	GWC-11	W	4/7/20 1235	5	2												pH= 5.05
5	GWC-22	W	4/7/20 1540	5	2												pH= 4.80
6	EB-1-4-7-2020	W	4/7/20 1330	5	2												pH=
7				5	2												pH=
8				5	2												pH=
9				5	2												pH=
10				5	2												pH=
11				5	2												pH=
12																	

ADDITIONAL COMMENTS:
Requested by / Application: []
DATE: 4/8/20
TIME: 0830
Accepted by / Application: []
DATE: 4/8/20
TIME: 0830
Temp in °C: 3.7
Received on Ice (Y/N): Y
Custody Sealed Cooler (Y/N): N
Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: Anna Schmitt
PRINT NAME OF SAMPLER: Anna Schmitt
SIGNATURE OF SAMPLER: [Signature]
DATE Signed (MM/DD/YY): 4/6/20



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>GA Power</u> Address: <u>Atlanta, GA</u> Email To: <u>SCS Contacts</u> Phone: <u>Fac</u> Requested Due Date/TIME: <u>18 Day</u>	Section B Required Project Information: Report To: <u>SCS Contacts</u> Copy To: <u>ACC Contacts</u> Purchase Order No.: _____ Project Name: <u>Gunnman Road - 1st 2020 SA GWM</u> Project Number: _____
Section C Invoicing Information: Attention: <u>Southern Co.</u> Company Name: _____ Address: _____ PACE Queue Reference: _____ Pace Project Manager: <u>Kevin Herring</u> Pace Profile #: <u>2926-1</u>	REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER OCA-____ Site Location: <u>GA</u> STATE: _____

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab ID.		
				COMPOSITE	COMPOSITE						H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					TDS	Chloride/Fluoride/Sulfate 300.0
1	SCS-13	WT 6	WT 6	/	/	4/18/20	0953	4	2														
2	SCS-9	WT 6	WT 6	/	/	4/18/20	1226	1	2														
3	SCS-20	WT 6	WT 6	/	/	4/18/20	1000	5	2														
4	SCS-17	WT 6	WT 6	/	/	4/18/20	1200	5	2														
5	SCS-17	WT 6	WT 6	/	/	4/18/20	1535	5	2														
6	SCS-2-4-7-20	WT 6	WT 6	/	/	4/8/20	1445	5	2														
7	SCS-2-4-7-20	WT 6	WT 6	/	/	4/8/20	1730	5	2														
8	SCS-2-4-7-20	WT 6	WT 6	/	/	4/8/20	1535	5	2														
9	SCS-17	WT 6	WT 6	/	/	4/15/20	1535	5	2														
10								5	2														
11								5	2														
12								5	2														

ADDITIONAL COMMENTS Request note when the last sample for the event has been taken <u>ALL SAMPLES COLLECTED</u> Meters-B, C, S, Sh, As, Ba, Be, Cd, Cr, Cu, Pb, Li, Se, Mn, Ni, V, Zn	REQUISITIONED BY / AFFILIATION <u>Kevin Herring</u> DATE: <u>4/14/20</u> TIME: <u>0921</u> ACCEPTED BY / AFFILIATION <u>Kevin Herring</u> DATE: <u>4/14/20</u> TIME: <u>0921</u>
---	---

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Ann Schmitt</u> SIGNATURE OF SAMPLER: <u>Ann Schmitt</u> DATE Signed (MM/DD/YYYY): <u>4/9/20</u>	Temp in °C _____ Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____
---	--

April 17, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630820

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Atlanta, GA

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

Sincerely,



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

Enclosures

cc: Owens Fuquea, ACC
Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630820001	GWA-7 FILTERED	Water	04/06/20 16:10	04/08/20 13:10
2630820002	GWB-5R FILTERED	Water	04/07/20 15:35	04/08/20 13:10
2630820003	GWB-6R FILTERED	Water	04/07/20 16:58	04/08/20 13:10

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SAMPLE ANALYTE COUNT

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2630820001	GWA-7 FILTERED	EPA 6010D	DRB	2
		EPA 6020B	CSW	14
2630820002	GWB-5R FILTERED	EPA 6010D	DRB	2
		EPA 6020B	CSW	14
2630820003	GWB-6R FILTERED	EPA 6010D	DRB	2
		EPA 6020B	CSW	14

PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630820001	GWA-7 FILTERED					
	Field pH	6.02	Std. Units		04/13/20 10:21	
EPA 6010D	Calcium, Dissolved	3.2	mg/L	1.0	04/14/20 19:35	
EPA 6020B	Barium, Dissolved	0.069	mg/L	0.050	04/13/20 20:14	
EPA 6020B	Boron, Dissolved	6.6	mg/L	0.50	04/13/20 20:14	M1
EPA 6020B	Chromium, Dissolved	0.012J	mg/L	0.050	04/13/20 20:14	D3
EPA 6020B	Cobalt, Dissolved	0.0018J	mg/L	0.025	04/13/20 20:14	D3
EPA 6020B	Vanadium, Dissolved	0.12	mg/L	0.050	04/13/20 20:14	
2630820002	GWB-5R FILTERED					
	Field pH	5.45	Std. Units		04/13/20 10:21	
EPA 6010D	Calcium, Dissolved	32.2	mg/L	1.0	04/14/20 19:56	
EPA 6020B	Antimony, Dissolved	0.00036J	mg/L	0.0030	04/13/20 20:37	
EPA 6020B	Arsenic, Dissolved	0.0011J	mg/L	0.0050	04/13/20 20:37	
EPA 6020B	Barium, Dissolved	0.089	mg/L	0.010	04/13/20 20:37	
EPA 6020B	Boron, Dissolved	4.7	mg/L	0.10	04/13/20 20:37	
EPA 6020B	Chromium, Dissolved	0.0015J	mg/L	0.010	04/13/20 20:37	
EPA 6020B	Cobalt, Dissolved	0.00047J	mg/L	0.0050	04/13/20 20:37	
EPA 6020B	Lead, Dissolved	0.000081J	mg/L	0.0050	04/13/20 20:37	
EPA 6020B	Vanadium, Dissolved	0.0043J	mg/L	0.010	04/13/20 20:37	
2630820003	GWB-6R FILTERED					
	Field pH	5.80	Std. Units		04/13/20 10:21	
EPA 6010D	Calcium, Dissolved	7.3	mg/L	1.0	04/14/20 19:59	
EPA 6020B	Arsenic, Dissolved	0.0026J	mg/L	0.025	04/13/20 20:42	D3
EPA 6020B	Barium, Dissolved	0.0082J	mg/L	0.050	04/13/20 20:42	D3
EPA 6020B	Boron, Dissolved	5.6	mg/L	0.50	04/13/20 20:42	
EPA 6020B	Chromium, Dissolved	0.0078J	mg/L	0.050	04/13/20 20:42	D3
EPA 6020B	Vanadium, Dissolved	0.041J	mg/L	0.050	04/13/20 20:42	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630820

Sample: GWA-7 FILTERED Lab ID: 2630820001 Collected: 04/06/20 16:10 Received: 04/08/20 13:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.02	Std. Units			1		04/13/20 10:21		
6010D MET ICP Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium, Dissolved	3.2	mg/L	1.0	0.14	1	04/13/20 19:00	04/14/20 19:35	7440-70-2	
Zinc, Dissolved	ND	mg/L	0.020	0.018	1	04/13/20 19:00	04/14/20 19:35	7440-66-6	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony, Dissolved	ND	mg/L	0.015	0.0014	5	04/13/20 13:00	04/13/20 20:14	7440-36-0	D3
Arsenic, Dissolved	ND	mg/L	0.025	0.0018	5	04/13/20 13:00	04/13/20 20:14	7440-38-2	D3
Barium, Dissolved	0.069	mg/L	0.050	0.0024	5	04/13/20 13:00	04/13/20 20:14	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.015	0.00037	5	04/13/20 13:00	04/13/20 20:14	7440-41-7	D3
Boron, Dissolved	6.6	mg/L	0.50	0.025	5	04/13/20 13:00	04/13/20 20:14	7440-42-8	M1
Cadmium, Dissolved	ND	mg/L	0.012	0.00057	5	04/13/20 13:00	04/13/20 20:14	7440-43-9	D3
Chromium, Dissolved	0.012J	mg/L	0.050	0.0020	5	04/13/20 13:00	04/13/20 20:14	7440-47-3	D3
Cobalt, Dissolved	0.0018J	mg/L	0.025	0.0015	5	04/13/20 13:00	04/13/20 20:14	7440-48-4	D3
Lead, Dissolved	ND	mg/L	0.025	0.00023	5	04/13/20 13:00	04/13/20 20:14	7439-92-1	D3
Lithium, Dissolved	ND	mg/L	0.15	0.0039	5	04/13/20 13:00	04/13/20 20:14	7439-93-2	D3
Molybdenum, Dissolved	ND	mg/L	0.050	0.0047	5	04/13/20 13:00	04/13/20 20:14	7439-98-7	D3
Selenium, Dissolved	ND	mg/L	0.050	0.0063	5	04/13/20 13:00	04/13/20 20:14	7782-49-2	D3
Thallium, Dissolved	ND	mg/L	0.0050	0.00026	5	04/13/20 13:00	04/13/20 20:14	7440-28-0	D3
Vanadium, Dissolved	0.12	mg/L	0.050	0.0035	5	04/13/20 13:00	04/13/20 20:14	7440-62-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Sample: GWB-5R FILTERED		Lab ID: 2630820002		Collected: 04/07/20 15:35		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.45	Std. Units			1		04/13/20 10:21		
6010D MET ICP Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium, Dissolved	32.2	mg/L	1.0	0.14	1	04/13/20 19:00	04/14/20 19:56	7440-70-2	
Zinc, Dissolved	ND	mg/L	0.020	0.018	1	04/13/20 19:00	04/14/20 19:56	7440-66-6	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony, Dissolved	0.00036J	mg/L	0.0030	0.00027	1	04/13/20 13:00	04/13/20 20:37	7440-36-0	
Arsenic, Dissolved	0.0011J	mg/L	0.0050	0.00035	1	04/13/20 13:00	04/13/20 20:37	7440-38-2	
Barium, Dissolved	0.089	mg/L	0.010	0.00049	1	04/13/20 13:00	04/13/20 20:37	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.0030	0.000074	1	04/13/20 13:00	04/13/20 20:37	7440-41-7	
Boron, Dissolved	4.7	mg/L	0.10	0.0049	1	04/13/20 13:00	04/13/20 20:37	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.0025	0.00011	1	04/13/20 13:00	04/13/20 20:37	7440-43-9	
Chromium, Dissolved	0.0015J	mg/L	0.010	0.00039	1	04/13/20 13:00	04/13/20 20:37	7440-47-3	
Cobalt, Dissolved	0.00047J	mg/L	0.0050	0.00030	1	04/13/20 13:00	04/13/20 20:37	7440-48-4	
Lead, Dissolved	0.000081J	mg/L	0.0050	0.000046	1	04/13/20 13:00	04/13/20 20:37	7439-92-1	
Lithium, Dissolved	ND	mg/L	0.030	0.00078	1	04/13/20 13:00	04/13/20 20:37	7439-93-2	
Molybdenum, Dissolved	ND	mg/L	0.010	0.00095	1	04/13/20 13:00	04/13/20 20:37	7439-98-7	
Selenium, Dissolved	ND	mg/L	0.010	0.0013	1	04/13/20 13:00	04/13/20 20:37	7782-49-2	
Thallium, Dissolved	ND	mg/L	0.0010	0.000052	1	04/13/20 13:00	04/13/20 20:37	7440-28-0	
Vanadium, Dissolved	0.0043J	mg/L	0.010	0.00071	1	04/13/20 13:00	04/13/20 20:37	7440-62-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630820

Sample: GWB-6R FILTERED		Lab ID: 2630820003		Collected: 04/07/20 16:58		Received: 04/08/20 13:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.80	Std. Units			1		04/13/20 10:21		
6010D MET ICP Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium, Dissolved	7.3	mg/L	1.0	0.14	1	04/13/20 19:00	04/14/20 19:59	7440-70-2	
Zinc, Dissolved	ND	mg/L	0.020	0.018	1	04/13/20 19:00	04/14/20 19:59	7440-66-6	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony, Dissolved	ND	mg/L	0.015	0.0014	5	04/13/20 13:00	04/13/20 20:42	7440-36-0	D3
Arsenic, Dissolved	0.0026J	mg/L	0.025	0.0018	5	04/13/20 13:00	04/13/20 20:42	7440-38-2	D3
Barium, Dissolved	0.0082J	mg/L	0.050	0.0024	5	04/13/20 13:00	04/13/20 20:42	7440-39-3	D3
Beryllium, Dissolved	ND	mg/L	0.015	0.00037	5	04/13/20 13:00	04/13/20 20:42	7440-41-7	D3
Boron, Dissolved	5.6	mg/L	0.50	0.025	5	04/13/20 13:00	04/13/20 20:42	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.012	0.00057	5	04/13/20 13:00	04/13/20 20:42	7440-43-9	D3
Chromium, Dissolved	0.0078J	mg/L	0.050	0.0020	5	04/13/20 13:00	04/13/20 20:42	7440-47-3	D3
Cobalt, Dissolved	ND	mg/L	0.025	0.0015	5	04/13/20 13:00	04/13/20 20:42	7440-48-4	D3
Lead, Dissolved	ND	mg/L	0.025	0.00023	5	04/13/20 13:00	04/13/20 20:42	7439-92-1	D3
Lithium, Dissolved	ND	mg/L	0.15	0.0039	5	04/13/20 13:00	04/13/20 20:42	7439-93-2	D3
Molybdenum, Dissolved	ND	mg/L	0.050	0.0047	5	04/13/20 13:00	04/13/20 20:42	7439-98-7	D3
Selenium, Dissolved	ND	mg/L	0.050	0.0063	5	04/13/20 13:00	04/13/20 20:42	7782-49-2	D3
Thallium, Dissolved	ND	mg/L	0.0050	0.00026	5	04/13/20 13:00	04/13/20 20:42	7440-28-0	D3
Vanadium, Dissolved	0.041J	mg/L	0.050	0.0035	5	04/13/20 13:00	04/13/20 20:42	7440-62-2	D3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

QC Batch:	45501	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET Dissolved
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630820001, 2630820002, 2630820003

METHOD BLANK: 209960 Matrix: Water

Associated Lab Samples: 2630820001, 2630820002, 2630820003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium, Dissolved	mg/L	ND	1.0	0.14	04/14/20 19:27	
Zinc, Dissolved	mg/L	ND	0.020	0.018	04/14/20 19:27	

LABORATORY CONTROL SAMPLE: 209961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	mg/L	1	1.0	102	80-120	
Zinc, Dissolved	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 209962 209963

Parameter	Units	2630820001		209963		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium, Dissolved	mg/L	3.2	1	1	4.3	4.2	104	95	75-125	2	20
Zinc, Dissolved	mg/L	ND	1	1	0.99	1.0	99	101	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630820

QC Batch: 45470 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630820001, 2630820002, 2630820003

METHOD BLANK: 209873 Matrix: Water
Associated Lab Samples: 2630820001, 2630820002, 2630820003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00027	04/13/20 20:02	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00035	04/13/20 20:02	
Barium, Dissolved	mg/L	ND	0.010	0.00049	04/13/20 20:02	
Beryllium, Dissolved	mg/L	ND	0.0030	0.000074	04/13/20 20:02	
Boron, Dissolved	mg/L	ND	0.10	0.0049	04/13/20 20:02	
Cadmium, Dissolved	mg/L	ND	0.0025	0.00011	04/13/20 20:02	
Chromium, Dissolved	mg/L	ND	0.010	0.00039	04/13/20 20:02	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00030	04/13/20 20:02	
Lead, Dissolved	mg/L	ND	0.0050	0.000046	04/13/20 20:02	
Lithium, Dissolved	mg/L	ND	0.030	0.00078	04/13/20 20:02	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00095	04/13/20 20:02	
Selenium, Dissolved	mg/L	ND	0.010	0.0013	04/13/20 20:02	
Thallium, Dissolved	mg/L	ND	0.0010	0.000052	04/13/20 20:02	
Vanadium, Dissolved	mg/L	ND	0.010	0.00071	04/13/20 20:02	

LABORATORY CONTROL SAMPLE: 209874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.12	116	80-120	
Arsenic, Dissolved	mg/L	0.1	0.11	106	80-120	
Barium, Dissolved	mg/L	0.1	0.11	107	80-120	
Beryllium, Dissolved	mg/L	0.1	0.11	110	80-120	
Boron, Dissolved	mg/L	1	1.1	108	80-120	
Cadmium, Dissolved	mg/L	0.1	0.11	107	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	105	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	102	80-120	
Lead, Dissolved	mg/L	0.1	0.11	106	80-120	
Lithium, Dissolved	mg/L	0.1	0.11	109	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	104	80-120	
Selenium, Dissolved	mg/L	0.1	0.11	107	80-120	
Thallium, Dissolved	mg/L	0.1	0.10	104	80-120	
Vanadium, Dissolved	mg/L	0.1	0.10	103	80-120	

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QUALITY CONTROL DATA

Project: GRUMMAN ROAD 1ST 2020 SA GWM
Pace Project No.: 2630820

Parameter	Units	209875		209876		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630820001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	1	20		
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	105	75-125	3	20		
Barium, Dissolved	mg/L	0.069	0.1	0.1	0.17	0.17	102	104	75-125	1	20		
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	4	20		
Boron, Dissolved	mg/L	6.6	1	1	7.7	8.1	105	150	75-125	6	20	M1	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20		
Chromium, Dissolved	mg/L	0.012J	0.1	0.1	0.11	0.11	101	102	75-125	1	20		
Cobalt, Dissolved	mg/L	0.0018J	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Lead, Dissolved	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium, Dissolved	mg/L	ND	0.1	0.1	0.10J	0.11J	101	105	75-125		20		
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.11	96	100	75-125	4	20		
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20		
Vanadium, Dissolved	mg/L	0.12	0.1	0.1	0.22	0.22	103	107	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRUMMAN ROAD 1ST 2020 SA GWM

Pace Project No.: 2630820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630820001	GWA-7 FILTERED				
2630820002	GWB-5R FILTERED				
2630820003	GWB-6R FILTERED				
2630820001	GWA-7 FILTERED	EPA 3010A	45501	EPA 6010D	45521
2630820002	GWB-5R FILTERED	EPA 3010A	45501	EPA 6010D	45521
2630820003	GWB-6R FILTERED	EPA 3010A	45501	EPA 6010D	45521
2630820001	GWA-7 FILTERED	EPA 3005A	45470	EPA 6020B	45488
2630820002	GWB-5R FILTERED	EPA 3005A	45470	EPA 6020B	45488
2630820003	GWB-6R FILTERED	EPA 3005A	45470	EPA 6020B	45488

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page: 1 of 1

Company: GA Power		Report To: SCS Contacts		Company Name: Southstream Co.	
Address: Atlanta, GA		Copy To: ACC Contacts		Address:	
Email To: SCS Contacts		Purchase Order No.:		Reference: Kevin Herring	
Phone: Fax:		Project Name: Gunman Road - 1st 2020 SA GWM		Pace Project Manager:	
Requested Due Date/TAT: 10 Day		Project Number:		Pace Order #: 2926-1	
Site Location: STATE: GA		Requested Analysis: Filtered (Y/N)		REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>	

ITEM #	Section D Required Client Information Valid Matrix Codes: LABILEX, CONDUC, WATER, WASTE WATER, PRECIPIT, SOILS, WASTE AIR, OTHER TISSUE (A-Z, 0-9, /,) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	pH=
				DATE	TIME							
1	GWA-7 Filtered	W G	G	4/11/20	1610		2		TDS			pH= 6.02
2	GWB-SR Filtered	W G	G	4/12/20	1535		2		Chloride/Fluoride/Sulfate 300.0			pH= 5.45
3	GWB-SR Filtered	W G	G	4/12/20	1658		2		App. III+IV+State Metals 60106020			pH= 5.86
4							2		RAD 228/228			pH=
5							2		Field Filtered Metals			pH=
6							2					pH=
7							2					pH=
8							2					pH=
9							2					pH=
10							2					pH=
11							2					pH=
12							2					pH=

ADDITIONAL COMMENTS		NET ACQUIRED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
Please note when the last sample for the event has been taken.		[Signature]		4/8/20		0836		[Signature]		4/8/20		0836	
Matrix=B, Ca, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Li, Se, Mo, Tl, V, Zn		[Signature]		4/8/20		1330		[Signature]		4/8/20		0836	

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YYYY):	
PRINT Name of SAMPLER: Anne Schmittler	SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YYYY):	4/6/20

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



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-03-043 Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

Minute	Item #	Item Description
1	BP45-125	125 mL Plastic Unpreserved (N/A) (C-)
2	BP3U-250	250 mL Plastic Unpreserved (N/A)
3	BP7U-500	500 mL Plastic Unpreserved (N/A)
4	BP1U-1 liter	1 liter Plastic Unpreserved (N/A)
5	BP4S-125	125 mL Plastic H2SO4 (pH < 2) (C-)
6	BP3N-250	250 mL plastic HNO3 (pH < 2)
7	BP4Z-125	125 mL Plastic 2N Acetate & NaOH (pH > 12) (C-)
8	BP4C-125	125 mL Plastic NaOH (pH > 12) (C-)
9	WGFLU	Wide-mouthed Glass Jar Unpreserved
10	AG1U-1 liter	1 liter Amber Unpreserved (N/A) (C-)
11	AG1H-1 liter	1 liter Amber HCl (pH < 2)
12	AG3U-250	250 mL Amber Unpreserved (N/A) (C-)
	AG1S-1 liter	1 liter Amber H2SO4 (pH < 2)
	AG3S-250	250 mL Amber H2SO4 (pH < 2)
	AG3A(DGSA)	250 mL Amber NH4Cl (N/A) (C-)
	DG9H-40	40 mL VOA HCl (N/A)
	VG9T-40	40 mL VOA Na2S2O3 (N/A)
	VG9U-40	40 mL VOA Unp (N/A)
	DG9P-40	40 mL VOA HPO4 (N/A)
	VOAK	16 vials per kit-5035 kit (N/A)
	V/GK	9 vials per kit-VPH/Gas kit (N/A)
	SP5T-125	125 mL Sterile Plastic (N/A - lab)
	SP2T-250	250 mL Sterile Plastic (N/A - lab)
	BP2A-250	250 mL Plastic (NH2)2SO4 (9.3-9.7)
	AG0U-100	100 mL Amber Unpreserved vials (N/A)
	VSGU-20	20 mL Scintillation vials (N/A)

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office. Out of hold, incorrect preservative, out of temp, incorrect containers.

May 01, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630818001	GWB-4R	Water	04/07/20 09:32	04/10/20 09:15
2630818002	GWC-1	Water	04/07/20 11:30	04/10/20 09:15
2630818003	GWB-5R	Water	04/07/20 15:35	04/10/20 09:15
2630818004	GWB-6R	Water	04/07/20 16:58	04/10/20 09:15
2630818005	GWC-16	Water	04/07/20 10:45	04/10/20 09:15
2630818006	GWC-21	Water	04/07/20 13:45	04/10/20 09:15
2630818007	GWC-15	Water	04/07/20 16:10	04/10/20 09:15
2630818008	GWC-14	Water	04/07/20 13:55	04/10/20 09:15
2630818009	FB-1-4-6-20	Water	04/07/20 17:05	04/10/20 09:15
2630818010	DUP-1	Water	04/07/20 00:01	04/10/20 09:15
2630818011	GWA-8	Water	04/06/20 14:40	04/10/20 09:15
2630818012	GWA-7	Water	04/06/20 16:10	04/10/20 09:15
2630818013	GWC-12	Water	04/07/20 10:00	04/10/20 09:15
2630818014	GWC-11	Water	04/07/20 12:35	04/10/20 09:15
2630818015	GWC-22	Water	04/07/20 15:40	04/10/20 09:15
2630818016	EB-1-4-7-2020	Water	04/07/20 13:30	04/10/20 09:15
2630818017	GWC-13	Water	04/08/20 09:53	04/10/20 09:15
2630818018	GWC-2	Water	04/08/20 12:25	04/10/20 09:15
2630818019	GWC-9	Water	04/08/20 10:00	04/10/20 09:15
2630818020	GWC-20	Water	04/08/20 12:00	04/10/20 09:15
2630818021	GWC-17	Water	04/08/20 15:35	04/10/20 09:15
2630818022	EB-2-4-7-20	Water	04/08/20 14:45	04/10/20 09:15
2630818023	FB-2-4-7-20	Water	04/08/20 12:30	04/10/20 09:15
2630818024	DUP-2	Water	04/08/20 00:01	04/10/20 09:15

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SAMPLE ANALYTE COUNT

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630818001	GWB-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818002	GWC-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818003	GWB-5R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818004	GWB-6R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818005	GWC-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818006	GWC-21	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818007	GWC-15	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818008	GWC-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818009	FB-1-4-6-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818010	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818011	GWA-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818012	GWA-7	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630818013	GWC-12	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630818014	GWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818015	GWC-22	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818016	EB-1-4-7-2020	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818017	GWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818018	GWC-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818019	GWC-9	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818020	GWC-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818021	GWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818022	EB-2-4-7-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818023	FB-2-4-7-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630818024	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Sample: GWB-4R		Lab ID: 2630818001	Collected: 04/07/20 09:32	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	1.51 ± 0.540 (0.624) C:97% T:NA		pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.928 ± 0.504 (0.905) C:70% T:78%		pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	2.44 ± 1.04 (1.53)		pCi/L	04/30/20 09:05	7440-14-4	

Sample: GWC-1		Lab ID: 2630818002	Collected: 04/07/20 11:30	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.989 ± 0.434 (0.469) C:82% T:NA		pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.985 ± 0.459 (0.762) C:75% T:77%		pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.97 ± 0.893 (1.23)		pCi/L	04/30/20 09:05	7440-14-4	

Sample: GWB-5R		Lab ID: 2630818003	Collected: 04/07/20 15:35	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	2.52 ± 0.842 (0.660) C:31% T:NA		pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	1.05 ± 0.435 (0.671) C:76% T:83%		pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	3.57 ± 1.28 (1.33)		pCi/L	04/30/20 09:05	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: GWB-6R		Lab ID: 2630818004	Collected: 04/07/20 16:58	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	5.50 ± 1.17 (0.540) C:88% T:NA	pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.752 ± 0.463 (0.860) C:70% T:77%	pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	6.25 ± 1.63 (1.40)	pCi/L	04/30/20 09:05	7440-14-4	

Sample: GWC-16		Lab ID: 2630818005	Collected: 04/07/20 10:45	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.75 ± 0.553 (0.419) C:93% T:NA	pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	2.42 ± 0.711 (0.845) C:73% T:78%	pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	4.17 ± 1.26 (1.26)	pCi/L	04/30/20 09:05	7440-14-4	

Sample: GWC-21		Lab ID: 2630818006	Collected: 04/07/20 13:45	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.01 ± 0.456 (0.607) C:85% T:NA	pCi/L	04/21/20 06:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.791 ± 0.417 (0.734) C:67% T:92%	pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.80 ± 0.873 (1.34)	pCi/L	04/30/20 09:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: GWC-15		Lab ID: 2630818007	Collected: 04/07/20 16:10	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.831 ± 0.397 (0.518)		pCi/L	04/21/20 06:38	13982-63-3	
		C:85% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.991 ± 0.411 (0.620)		pCi/L	04/28/20 16:41	15262-20-1	
		C:72% T:89%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.82 ± 0.808 (1.14)		pCi/L	04/30/20 09:07	7440-14-4	

Sample: GWC-14		Lab ID: 2630818008	Collected: 04/07/20 13:55	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.533 ± 0.309 (0.415)		pCi/L	04/21/20 06:39	13982-63-3	
		C:90% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.872 ± 0.428 (0.714)		pCi/L	04/28/20 16:41	15262-20-1	
		C:68% T:84%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.41 ± 0.737 (1.13)		pCi/L	04/30/20 09:07	7440-14-4	

Sample: FB-1-4-6-20		Lab ID: 2630818009	Collected: 04/07/20 17:05	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	-0.173 ± 0.153 (0.615)		pCi/L	04/21/20 06:39	13982-63-3	
		C:74% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.642 ± 0.418 (0.791)		pCi/L	04/28/20 16:41	15262-20-1	
		C:72% T:83%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.642 ± 0.571 (1.41)		pCi/L	04/30/20 09:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: DUP-1		Lab ID: 2630818010	Collected: 04/07/20 00:01	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.01 ± 0.450 (0.502) C:77% T:NA	pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.01 ± 0.477 (0.810) C:71% T:85%	pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.02 ± 0.927 (1.31)	pCi/L	04/30/20 09:07	7440-14-4	

Sample: GWA-8		Lab ID: 2630818011	Collected: 04/06/20 14:40	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.67 ± 0.552 (0.474) C:85% T:NA	pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.16 ± 0.473 (0.737) C:69% T:89%	pCi/L	04/28/20 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.83 ± 1.03 (1.21)	pCi/L	04/30/20 09:07	7440-14-4	

Sample: GWA-7		Lab ID: 2630818012	Collected: 04/06/20 16:10	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	24.2 ± 3.93 (0.503) C:87% T:NA	pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.50 ± 0.620 (0.954) C:69% T:63%	pCi/L	04/28/20 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	25.7 ± 4.55 (1.46)	pCi/L	04/30/20 09:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

Sample: GWC-12		Lab ID: 2630818013	Collected: 04/07/20 10:00	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual	
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	1.19 ± 0.480 (0.600) C:87% T:NA	pCi/L	04/21/20 06:39	13982-63-3		
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.990 ± 0.488 (0.843) C:72% T:82%	pCi/L	04/28/20 16:42	15262-20-1		
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	2.18 ± 0.968 (1.44)	pCi/L	04/30/20 09:07	7440-14-4		

Sample: GWC-11		Lab ID: 2630818014	Collected: 04/07/20 12:35	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual	
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	4.24 ± 0.971 (0.443) C:87% T:NA	pCi/L	04/21/20 06:39	13982-63-3		
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	3.63 ± 0.871 (0.706) C:75% T:87%	pCi/L	04/28/20 16:42	15262-20-1		
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	7.87 ± 1.84 (1.15)	pCi/L	04/30/20 09:07	7440-14-4		

Sample: GWC-22		Lab ID: 2630818015	Collected: 04/07/20 15:40	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual	
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	4.64 ± 1.02 (0.443) C:89% T:NA	pCi/L	04/21/20 06:39	13982-63-3		
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	3.02 ± 0.776 (0.686) C:71% T:84%	pCi/L	04/28/20 16:42	15262-20-1		
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	7.66 ± 1.80 (1.13)	pCi/L	04/30/20 09:07	7440-14-4		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: EB-1-4-7-2020		Lab ID: 2630818016	Collected: 04/07/20 13:30	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.118 ± 0.186 (0.402) C:83% T:NA	pCi/L	04/21/20 06:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.851 ± 0.434 (0.740) C:71% T:80%	pCi/L	04/28/20 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.969 ± 0.620 (1.14)	pCi/L	04/30/20 09:07	7440-14-4	

Sample: GWC-13		Lab ID: 2630818017	Collected: 04/08/20 09:53	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.450 ± 0.295 (0.444) C:85% T:NA	pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.625 ± 0.432 (0.827) C:72% T:78%	pCi/L	04/28/20 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08 ± 0.727 (1.27)	pCi/L	04/30/20 09:10	7440-14-4	

Sample: GWC-2		Lab ID: 2630818018	Collected: 04/08/20 12:25	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.682 ± 0.397 (0.624) C:81% T:NA	pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.444 ± 0.441 (0.912) C:68% T:84%	pCi/L	04/28/20 16:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.13 ± 0.838 (1.54)	pCi/L	04/30/20 09:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: GWC-9		Lab ID: 2630818019	Collected: 04/08/20 10:00	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	1.13 ± 0.454 (0.536) C:91% T:NA		pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.793 ± 0.510 (0.976) C:65% T:84%		pCi/L	04/28/20 16:40	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.92 ± 0.964 (1.51)		pCi/L	04/30/20 09:10	7440-14-4	

Sample: GWC-20		Lab ID: 2630818020	Collected: 04/08/20 12:00	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	1.36 ± 0.476 (0.442) C:91% T:NA		pCi/L	04/21/20 06:39	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	2.83 ± 0.945 (1.35) C:79% T:78%		pCi/L	04/28/20 20:06	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	4.19 ± 1.42 (1.79)		pCi/L	04/30/20 09:10	7440-14-4	

Sample: GWC-17		Lab ID: 2630818021	Collected: 04/08/20 15:35	Received: 04/10/20 09:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	2.07 ± 0.610 (0.383) C:88% T:NA		pCi/L	04/22/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.718 ± 0.389 (0.692) C:75% T:85%		pCi/L	04/24/20 12:49	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	2.79 ± 0.999 (1.08)		pCi/L	04/30/20 09:10	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

Sample: EB-2-4-7-20		Lab ID: 2630818022	Collected: 04/08/20 14:45	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0470 ± 0.0675 (0.312) C:88% T:NA	pCi/L	04/22/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.497 ± 0.404 (0.807) C:74% T:82%	pCi/L	04/24/20 12:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.497 ± 0.472 (1.12)	pCi/L	04/30/20 09:10	7440-14-4	

Sample: FB-2-4-7-20		Lab ID: 2630818023	Collected: 04/08/20 12:30	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.00483 ± 0.161 (0.449) C:86% T:NA	pCi/L	04/22/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.618 ± 0.376 (0.692) C:70% T:92%	pCi/L	04/24/20 12:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.623 ± 0.537 (1.14)	pCi/L	04/30/20 09:10	7440-14-4	

Sample: DUP-2		Lab ID: 2630818024	Collected: 04/08/20 00:01	Received: 04/10/20 09:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.278 (0.348) C:88% T:NA	pCi/L	04/22/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.309 ± 0.356 (0.748) C:78% T:88%	pCi/L	04/24/20 12:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.788 ± 0.634 (1.10)	pCi/L	04/30/20 09:10	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

QC Batch: 392203

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016, 2630818017, 2630818018, 2630818019, 2630818020

METHOD BLANK: 1899021

Matrix: Water

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016, 2630818017, 2630818018, 2630818019, 2630818020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.499 ± 0.341 (0.645) C:75% T:89%	pCi/L	04/28/20 16:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

QC Batch: 392399

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630818021, 2630818022, 2630818023, 2630818024

METHOD BLANK: 1900027

Matrix: Water

Associated Lab Samples: 2630818021, 2630818022, 2630818023, 2630818024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0256 ± 0.341 (0.798) C:73% T:87%	pCi/L	04/24/20 12:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

QC Batch: 392202

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016, 2630818017, 2630818018, 2630818019, 2630818020

METHOD BLANK: 1899018

Matrix: Water

Associated Lab Samples: 2630818001, 2630818002, 2630818003, 2630818004, 2630818005, 2630818006, 2630818007, 2630818008, 2630818009, 2630818010, 2630818011, 2630818012, 2630818013, 2630818014, 2630818015, 2630818016, 2630818017, 2630818018, 2630818019, 2630818020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0165 ± 0.137 (0.386) C:90% T:NA	pCi/L	04/21/20 06:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630818 Grumman Road 1st 2020

Pace Project No.: 30358463

QC Batch: 392396

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630818021, 2630818022, 2630818023, 2630818024

METHOD BLANK: 1900025

Matrix: Water

Associated Lab Samples: 2630818021, 2630818022, 2630818023, 2630818024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0749 ± 0.154 (0.360) C:90% T:NA	pCi/L	04/22/20 06:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2630818 Grumman Road 1st 2020
Pace Project No.: 30358463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA
 Cert. Needed: Yes No
 Owner Received Date: 4/8/2020 Results Requested By: 4/22/2020

Workorder: 2630818 Workorder Name: GRUMMAN ROAD 1ST 2020 SA GWM

Kevin Herring
 Pace Analytical Charlotte
 9800 Kincey Ave.
 Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3, & 4
 Greensburg, PA 15601
 Phone (724)850-5600



21 days

WO#: 30358463



30358463

Form Sample ID	Sample Type	Collection Date/Time	Lab ID	Matrix	SON#	LAB USE ONLY
1	GWB-4R	4/7/2020 09:32	2630818001	Water	2	RAD 9315 X
2	GWC-1	4/7/2020 11:30	2630818002	Water	2	RAD 9320 X
3	GWB-5R	4/7/2020 15:35	2630818003	Water	2	X
4	GWB-8R	4/7/2020 16:58	2630818004	Water	2	X
5	GWC-16	4/7/2020 10:45	2630818005	Water	2	X
6	GWC-21	4/7/2020 13:45	2630818006	Water	2	X
7	GWC-15	4/7/2020 16:10	2630818007	Water	2	X
8	GWC-14	4/7/2020 13:55	2630818008	Water	2	X
9	FB-1-4-6-20	4/7/2020 17:05	2630818009	Water	2	X
10	DUP-1	4/7/2020 00:00	2630818010	Water	2	X
11	GWA-8	4/6/2020 14:40	2630818011	Water	2	X
12	GWA-7	4/6/2020 16:10	2630818012	Water	2	X
13	GWC-12	4/7/2020 10:00	2630818013	Water	2	X
14	GWC-11	4/7/2020 12:35	2630818014	Water	2	X
15	GWC-22	4/7/2020 15:40	2630818015	Water	2	X
16	EB-1-4-7-2020	4/7/2020 13:30	2630818016	Water	2	X

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	<i>[Signature]</i>	4/18/20 1700	<i>[Signature]</i>	4-18-20 9:15		<input checked="" type="radio"/>		
2								
3								

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 2630818 Workorder Name: GRUMMAN ROAD 1ST 2020 SA GWM

Kevin Herring
Pace Analytical Charlotte
9800 Kinsey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600

State Of Origin: GA
Cert. Needed: Yes No
Owner Received Date: 4/8/2020
Results Requested By: 21 GWS
4/22/2020



WO#: 30358463

PM: JAC Due Date: 05/01/20
CLIENT: PACE_26_ATGA

Item Sample ID	Sample Type	Collection Date/Time	Location	Matrix	NOH	RAD 9315	RAD 9320	LAB USE ONLY
1	GWR-4R	4/7/2020 09:32	2630818001	Water		X	X	
2	GWC-1	4/7/2020 11:30	2630818002	Water	1	X	X	
3	GWB-5R	4/7/2020 15:35	2630818003	Water	1	X	X	
4	GWB-6R	4/7/2020 16:58	2630818004	Water	1	X	X	
5	GWC-16	4/7/2020 10:45	2630818005	Water	1	X	X	
6	GWC-21	4/7/2020 13:45	2630818006	Water	1	X	X	
7	GWC-15	4/7/2020 10:10	2630818007	Water	1	X	X	
8	GWC-14	4/7/2020 13:55	2630818008	Water	1	X	X	
9	FB-1-4-9-20	4/7/2020 17:05	2630818009	Water	1	X	X	
10	DUP-1	4/7/2020 09:00	2630818010	Water	1	X	X	
11	GWA-8	4/6/2020 14:40	2630818011	Water	1	X	X	
12	GWA-7	4/6/2020 16:10	2630818012	Water	1	X	X	
13	GWC-12	4/7/2020 10:00	2630818013	Water	1	X	X	
14	GWC-11	4/7/2020 12:35	2630818014	Water	1	X	X	
15	GWC-22	4/7/2020 15:40	2630818015	Water	1	X	X	
16	EP-4-7-2020	4/7/2020 13:30	2630818016	Water	1	X	X	
17	GWC-13	4/8/2020 09:53	2630818017	Water	1	X	X	
18	GWC-2	4/8/2020 12:25	2630818018	Water	1	X	X	
19	GWC-9	4/8/2020 10:00	2630818019	Water	1	X	X	

CL
CLY
CLY

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA

Cert. Needed: Yes No

Workorder: 2630818 Workorder Name: GRUMMAN ROAD 1ST 2020 SA GWM

Owner Received Date: 4/8/2020 Results Requested By: 4/22/2020

Kevin Herring
Pace Analytical Charlotte
9800 Kincey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsborough
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600



WO# : 30358463

PM: JRC Due Date: 05/01/20

CLIENT: PACE_26_ATGA

Item	Sample ID	Sample Description	Collection Date/Time	Quantity	Container	Matrix	Volume	Notes	LAB USE ONLY
20	GWC-20	PS	4/8/2020 12:00	2630818020	Water	Water	2		020
21	GWC-17	PS	4/8/2020 15:35	2630818021	Water	Water	2		021
22	EB-2-4-7-20	PS	4/8/2020 14:45	2630818022	Water	Water	2		022
23	FB-2-4-7-20	PS	4/8/2020 12:30	2630818023	Water	Water	2		023
24	DUP-2	PS	4/8/2020 00:00	2630818024	Water	Water	2		024

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	<i>[Signature]</i>	4/8/2020 17:00	<i>[Signature]</i>	7-10-20 9:15				
2								
3								

Add on project

Cooler Temperature on Receipt *NA* °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pittsburgh Lab Sample Condition Upon Receipt

PM: JAC Due Date: 05/01/20
 CLIENT: PACE_26_ATGA



Client Name: Pace GA

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1657 9507 4159

Label	<u>DL</u>
LIMS Login	<u>DL</u>

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

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
 Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents:
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. <u>10P2191</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>ATC2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>DL</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>DL</u> Date: <u>4-10-20</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 4/14/2020
Worklist: 53349
Matrix: WT

Method Blank Assessment	
MB Sample ID	1895130
MB concentration:	0.335
MB 2 Sigma CSU:	0.306
MB MDC:	0.618
MB Numerical Performance Indicator:	2.15
MB Status vs. Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		N
	LCS53349	LCS2020	
Count Date:	4/23/2020		LCS053349
Decay Corrected Spike Concentration (pCi/mL):	19-057		
Volume Used (mL):	34.391		
Aliquot Volume (L, g, F):	0.10		
Target Conc. (pCi/L, g, F):	0.815		
Uncertainty (Calculated):	4.220		
Result (pCi/L, g, F):	0.304		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	5.906		
Numerical Performance Indicator:	1.280		
Status vs Numerical Indicator:	139.94%		
Upper % Recovery Limits:	Warning		
Lower % Recovery Limits:	Fail High**		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Ave sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/2/2020	
Sample I.D.:	50253791010	
Sample MS I.D.:	50253791020	
Sample MSD I.D.:	50253791021	
Spike I.D.:	19-057	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	34.630	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MSD Aliquot (L, g, F):	8.593	
MS Target Conc. (pCi/L, g, F):	0.806	
MSD Target Conc. (pCi/L, g, F):	8.595	
MS Spike Uncertainty (calculated):	0.619	
MSD Spike Uncertainty (calculated):	0.619	
Sample Result:	0.693	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.388	
Sample Matrix Spike Result:	11.396	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.347	
Sample Matrix Spike Duplicate Result:	9.879	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.070	
MS Numerical Performance Indicator:	1.663	
MSD Numerical Performance Indicator:	0.528	
MS Percent Recovery:	124.56%	
MSD Percent Recovery:	106.89%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	50253791010
Sample MS I.D.:	50253791020
Sample MSD I.D.:	50253791021
Spike I.D.:	11.396
Sample Matrix Spike Result:	2.347
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.879
Sample Matrix Spike Duplicate Result:	2.070
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.950
Duplicate Numerical Performance Indicator:	15.28%
Duplicate Numerical Performance Indicator:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

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

Comments:

**If all sample results are below MDC, the batch is acceptable, otherwise this batch must be retested due to LCS failure.

307

NPI < 3

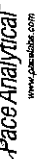
NPI < 3 acceptable for non-DW

metrics

483200
4/22/20

5/17/20

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 4/21/2020
Worklist: 53495
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1900027
MB concentration:	-0.026
M/B 2 Sigma CSU:	0.341
MB MDC:	0.798
MB Numerical Performance Indicator:	-0.15
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS53495	4/24/2020
Count Date:	4/24/2020
Spike I.D.:	19-057
Decay Corrected Spike Concentration (pCi/mL):	34.379
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.809
Target Conc. (pCi/L, g, F):	4.250
Uncertainty (Calculated):	0.306
Result (pCi/L, g, F):	3.581
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.185
Numerical Performance Indicator:	1.61
Percent Recovery:	123.97%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS53495
Duplicate Sample I.D.:	LCS53495
Sample Result (pCi/L, g, F):	5.214
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.185
Sample Duplicate Result (pCi/L, g, F):	3.581
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.894
Ave. sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.156
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	38.75%
Duplicate Status vs Numerical Indicator:	Warning
Duplicate Status vs RPD:	Fail**
% RPD Limit:	35%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):	MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):	MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):	MS Spike Uncertainty (calculated):
MS Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):
MSD Spike Uncertainty (calculated):	Sample Result:
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Matrix Spike Result (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result (pCi/L, g, F):	MS Numerical Performance Indicator:
MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:
MSD Numerical Performance Indicator:	MS Percent Recovery:
MS Percent Recovery:	MS Status vs Numerical Indicator:
MS Status vs Numerical Indicator:	MSD Status vs Recovery:
MSD Status vs Numerical Indicator:	MS/MSD Upper % Recovery Limits:
MS/MSD Upper % Recovery Limits:	MS/MSD Lower % Recovery Limits:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample Matrix Spike Result:
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result (pCi/L, g, F):	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
MS/MSD Duplicate Status vs RPD:	% RPD Limit:

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

Comments:

DNPI L3, acceptable for non-DW matrices

*TTT 11-2-20
VSD 4-22-20*

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 4/21/2020
Worklist: 53493
Matrix: DW

Method Blank Assessment	
MB Sample ID	1900025
MB concentration:	0.075
M/B Counting Uncertainty:	0.194
MB MDC:	0.360
MB Numerical Performance Indicator:	0.95
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:	4/22/2020	LCS/D53493	4/22/2020
Spike I.D.:	19-033		24.049
Decay Corrected Spike Concentration (pCi/mL):	0.10		0.10
Volume Used (mL):	0.510		0.505
Aliquot Volume (L, g, F):	4.716		4.761
Target Conc. (pCi/L, g, F):	0.057		0.057
Uncertainty (Calculated):	5.210		5.125
Result (pCi/L, g, F):	0.803		0.839
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.20		107.63%
Numerical Performance Indicator:	N/A		N/A
Status vs Numerical Indicator:	Pass		Pass
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS53493
Duplicate Sample I.D.:	LCS/D53493
Sample Result (pCi/L, g, F):	5.210
Sample Duplicate Result (pCi/L, g, F):	0.803
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.125
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.144
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.61%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

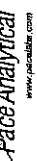
Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

UAm 4/23/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/17/2020
Worklist: 53450
Matrix: WT

Method Blank Assessment	
MB Sample ID	1689021
MB concentration:	0.439
M/B 2 Sigma CSU:	0.341
MB MDC:	0.645
MB Numerical Performance Indicator:	2.87
MB Status vs. MDC:	Warning
	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		LCSD53450	
Spike I.D.:		4/28/2020	
Decay Corrected Spike Concentration (pCi/mL):		19-057	19-057
Volume Used (mL):		34.332	34.332
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.817	0.817
Uncertainty (Calculated):		4.241	4.205
Result (pCi/L, g, F):		0.305	0.303
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):		3.737	4.461
Numerical Performance Indicator:		0.907	1.027
Percent Recovery:		-1.03	0.47
Status vs Numerical Indicator:		88.11%	106.10%
Status vs Recovery:		N/A	N/A
Upper % Recovery Limits:		Pass	Pass
Lower % Recovery Limits:		135%	135%
		60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCSD53450
Duplicate Sample I.D.:	LCSD53450
Sample Result (pCi/L, g, F):	3.737
Sample Duplicate Result (pCi/L, g, F):	0.907
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.461
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.027
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.096
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	18.53%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

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Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road

1st Semi-Annual Event

April 2020

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – April 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Asheville, Atlanta and Pittsburgh for groundwater samples collected at Grumman Road between April 6, 2020 and April 8, 2020. 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 2630818 was revised by the laboratory to correct errant Total Dissolved Solids (TDS) data.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected 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 (USEPA 6010D), Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, with the exceptions of TDS and Radium-228 in SDG 2630818. The TDS relative percent difference (RPD) on GWC-15 (2630818007) is described in the qualifications section below. The Radium-228 laboratory control sample/laboratory control sample duplicate RPD exceeded the QC criteria (38.15% above limit of 36). This batch was passed on the individual recoveries, and no batch qualification was necessary for Radium-228.
- Field Precision:** Field goals for precision were met, with the exceptions of Lead on GWC-1 (2630818002) and Chromium and Radium-228 on GWC-13 (2630818017) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met, with the exceptions of Calcium and Radium-228 in SDG 2630818. The Calcium matrix spike (MS) and matrix spike duplicate (MSD) recoveries on GWC-20 (2630818020) and GWC-22 (2630818015) that were outside criteria are described in the qualifications section below. The Radium-228 batch yielded a high LCS recovery (139.94% above range of 60-135). The batch was passed on the MS and MSD recoveries as well as the Numerical Performance Indicator (2.51 passing the limit of <3).
- 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, with the exception of TDS on GWC-14 (2630818008) as described in the qualifications section below.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- U:** The analyte was not detected above the method detection limit
- H:** The analysis was performed outside the method holding time

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample GWC-20 (2630818020) was qualified as estimated (J) for Calcium as the associated MS and MSD recoveries were outside QC criteria (154% and -107% outside the range of 75-125).
- Sample GWC-22 (2630818015) was qualified as estimated (J) for Calcium as the associated MS and MSD recoveries were above QC criteria (326% and 340% above the range of 75-125).
- Sample GWC-15 (2630818007) was qualified as estimated (J) for TDS as the laboratory RPD exceeded QC criteria (62% above the limit of 10).
- Samples GWC-1 (2630818002) and DUP-1 (2630818010) were qualified as estimated (J) for Lead as the field RPD exceeded QC criteria (77.46% above limit of 25).
- Samples GWC-13 (2630818017) and DUP-2 (2630818024) were qualified as estimated (J) for Chromium and Radium-228 as the respective field RPDs exceeded QC criteria (29.70% and 67.67% above limit of 25).

- Sample GWC-14 (2630818008) was qualified as estimated (H) for TDS as the reanalysis was performed outside the method holding time (23rd day past holding time of 7 days). The sample was originally analyzed within holding time but yielded data that were uncertain. The reanalysis in duplicate did not confirm the original result but was more consistent with historical data.
- Certain Vanadium and/or Antimony results in SDG 2630818 were qualified as non-detect (ND) due to the analyte(s) being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was below the RL, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain Radium results in SDG 2630818 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between April 6, 2020 and April 8, 2020 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

TABLE 1

Georgia Power Company – Grumman Road

Sample Summary Table – April 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6010D, 6020B)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
30818	GWB-4R	4/7/2020	2630818001	GW		X	X	X	X
30818	GWC-1	4/7/2020	2630818002	GW		X	X	X	X
30818	GWB-5R	4/7/2020	2630818003	GW		X	X	X	X
30818	GWB-6R	4/7/2020	2630818004	GW		X	X	X	X
30818	GWC-16	4/7/2020	2630818005	GW		X	X	X	X
30818	GWC-21	4/7/2020	2630818006	GW		X	X	X	X
30818	GWC-15	4/7/2020	2630818007	GW		X	X	X	X
30818	GWC-14	4/7/2020	2630818008	GW		X	X	X	X
30818	FB-1-4-6-20	4/7/2020	2630818009	WQ	FB	X	X	X	X
30818	DUP-1	4/7/2020	2630818010	GW	FD (GWC-1)	X	X	X	X
30818	GWA-8	4/6/2020	2630818011	GW		X	X	X	X
30818	GWA-7	4/6/2020	2630818012	GW		X	X	X	X
30818	GWC-12	4/7/2020	2630818013	GW		X	X	X	X
30818	GWC-11	4/7/2020	2630818014	GW		X	X	X	X
30818	GWC-22	4/7/2020	2630818015	GW		X	X	X	X
30818	EB-1-4-7-2020	4/7/2020	2630818016	WQ	EB	X	X	X	X
30818	GWC-13	4/8/2020	2630818017	GW		X	X	X	X
30818	GWC-2	4/8/2020	2630818018	GW		X	X	X	X
30818	GWC-9	4/8/2020	2630818019	GW		X	X	X	X
30818	GWC-20	4/8/2020	2630818020	GW		X	X	X	X
30818	GWC-17	4/8/2020	2630818021	GW		X	X	X	X
30818	EB-2-4-7-20	4/8/2020	2630818022	WQ	EB	X	X	X	X
30818	FB-2-4-7-20	4/8/2020	2630818023	WQ	FB	X	X	X	X
30818	DUP-2	4/8/2020	2630818024	GW	FD (GWC-13)	X	X	X	X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Grumman Road

Qualifier Summary Table – April 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
30818	GWC-14	TDS			H	Holding time exceeded
30818	GWC-20	Calcium			J	MS/MSD outside QC criteria
30818	GWC-22	Calcium			J	MS/MSD outside QC criteria
30818	GWB-4R	Vanadium		0.0037	ND	Blank detection
30818	GWC-1	Vanadium		0.0015	ND	Blank detection
30818	GWB-5R	Vanadium		0.0053	ND	Blank detection
30818	GWB-6R	Vanadium		0.041	ND	Blank detection
30818	GWC-12	Vanadium		0.0024	ND	Blank detection
30818	GWC-22	Vanadium		0.0014	ND	Blank detection
30818	GWC-11	Antimony			ND	Blank detection
30818	GWC-1	Lead			J	RPD exceeds field goal
30818	DUP-1	Lead			J	RPD exceeds field goal
30818	GWC-13	Chromium			J	RPD exceeds field goal
30818	DUP-2	Chromium			J	RPD exceeds field goal
30818	GWC-15	TDS			J	RPD exceeds laboratory goal
30818	GWC-13	Radium-228			J	RPD exceeds field goal
30818	DUP-2	Radium-228			J	RPD exceeds field goal
30818	GWB-4R	Radium-226		0.624	ND	Blank detection
30818	GWB-4R	Radium-228		0.905	ND	Blank detection
30818	GWC-1	Radium-226		0.469	ND	Blank detection
30818	GWC-1	Radium-228		0.762	ND	Blank detection
30818	GWB-5R	Radium-226		0.660	ND	Blank detection
30818	GWB-5R	Radium-228		0.671	ND	Blank detection
30818	GWB-6R	Radium-226		0.540	ND	Blank detection
30818	GWB-6R	Radium-228		0.860	ND	Blank detection
30818	GWC-16	Radium-226		0.419	ND	Blank detection
30818	GWC-16	Radium-228		0.845	ND	Blank detection
30818	GWC-21	Radium-226		0.607	ND	Blank detection
30818	GWC-21	Radium-228		0.734	ND	Blank detection
30818	GWC-15	Radium-226		0.518	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
ND – Non-Detect Result
H – Holding Time Exceeded

TABLE 2 (continued)

Georgia Power Company – Grumman Road

Qualifier Summary Table – April 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
30818	GWC-14	Radium-226		0.415	ND	Blank detection
30818	GWC-14	Radium-228		0.714	ND	Blank detection
30818	GWA-8	Radium-226		0.474	ND	Blank detection
30818	GWA-8	Radium-228		0.737	ND	Blank detection
30818	GWA-7	Radium-226		0.503	ND	Blank detection
30818	GWA-7	Radium-228		0.954	ND	Blank detection
30818	GWC-12	Radium-226		0.600	ND	Blank detection
30818	GWC-12	Radium-228		0.843	ND	Blank detection
30818	GWC-11	Radium-226		0.443	ND	Blank detection
30818	GWC-11	Radium-228		0.706	ND	Blank detection
30818	GWC-22	Radium-226		0.443	ND	Blank detection
30818	GWC-22	Radium-228		0.686	ND	Blank detection
30818	GWC-13	Radium-226		0.444	ND	Blank detection
30818	GWC-13	Radium-228		0.827	ND	Blank detection
30818	GWC-2	Radium-226		0.624	ND	Blank detection
30818	GWC-2	Radium-228		0.912	ND	Blank detection
30818	GWC-9	Radium-226		0.536	ND	Blank detection
30818	GWC-9	Radium-228		0.976	ND	Blank detection
30818	GWC-20	Radium-226		0.442	ND	Blank detection
30818	GWC-20	Radium-228		1.35	ND	Blank detection
30818	GWC-17	Radium-226		0.383	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result
 H – Holding Time Exceeded

Product Name: Low-Flow System

Date: 2020-04-06 16:06:35

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 20 ft

Pump placement from TOC 16 ft

Well Information:

Well ID GWA-7
Well diameter 2 in
Well Total Depth 21.1 ft
Screen Length 5 ft
Depth to Water 5.95 ft

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:36:01	300.05	22.81	5.98	1852.10	60.00	6.40	0.03	-72.82
Last 5	15:46:01	900.01	22.51	6.02	1853.70	59.00	6.40	0.00	-80.24
Last 5	15:51:01	1200.01	22.61	6.03	1857.00	61.00	6.40	-0.00	-82.00
Last 5	15:56:01	1500.01	22.28	6.02	1863.40	59.00	6.40	-0.00	-80.92
Last 5	16:01:01	1800.00	22.24	6.02	1880.05	67.00	6.40	-0.00	-81.35
Variance 0			0.10	0.00	3.29			-0.00	-1.76
Variance 1			-0.34	-0.00	6.40			-0.00	1.08
Variance 2			-0.03	-0.00	16.65			0.00	-0.43

Notes

Sample time: 16:00. Weather: Sunny 80s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-06 14:36:35

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peru
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 16 ft

Pump placement from TOC 18 ft

Well Information:

Well ID
Well diameter GWA-8
Well Total Depth 2 in
Screen Length 20.9 ft
Depth to Water 5 ft
7.38 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1614148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20 in
Total Volume Pumped 1.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	14:11:47	600.02	22.08	4.68	316.58	1.40	9.10	0.12	131.03
Last 5	14:16:47	900.01	21.97	4.61	318.26	1.30	9.10	0.12	109.71
Last 5	14:21:47	1200.01	22.16	4.56	321.53	1.40	9.10	0.10	95.93
Last 5	14:26:47	1500.00	22.16	4.54	324.58	1.50	9.10	0.09	85.22
Last 5	14:31:47	1800.00	21.85	4.52	327.49	1.60	9.10	0.08	78.73
Variance 0			0.19	-0.04	3.27			-0.01	-13.78
Variance 1			0.00	-0.03	3.04			-0.01	-10.71
Variance 2			-0.31	-0.02	2.92			-0.01	-6.49

Notes

Sample time: 14:40. Weather: sunny 80s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 09:35:07

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 23.8 ft

Pump placement from TOC 20.8 ft

Well Information:

Well ID GWB-4R
Well diameter 2 in
Well Total Depth 23.3 ft
Screen Length 5 ft
Depth to Water 10.83 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.1962295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 189 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	09:17:42	300.02	20.14	5.73	728.61	7.80	11.20	0.16	14.23
Last 5	09:22:42	600.01	20.15	5.73	699.71	7.70	11.20	0.14	8.59
Last 5	09:27:42	900.01	20.17	5.74	700.36	8.40	11.20	0.13	5.18
Last 5	09:32:42	1200.00	20.16	5.74	700.38	4.90	11.20	0.12	3.52
Last 5									
Variance 0			0.01	0.00	-28.90			-0.02	-5.64
Variance 1			0.02	0.00	0.64			-0.00	-3.41
Variance 2			-0.01	0.00	0.03			-0.02	-1.66

Notes

Extended purge. Sampled at 0932. 72F Cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 15:37:24

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 27 ft

Pump placement from TOC 24 ft

Well Information:

Well ID GWB-5R
Well diameter 2 in
Well Total Depth 26.5 ft
Screen Length 5 ft
Depth to Water 9.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:15:26	9305.86	22.47	5.45	687.54	77.40	9.60	0.01	-9.45
Last 5	15:20:26	9605.85	22.34	5.45	688.19	76.00	9.60	0.01	-9.51
Last 5	15:25:26	9905.87	22.31	5.44	689.10	76.90	9.60	0.01	-9.85
Last 5	15:30:26	10205.85	22.64	5.45	684.83	76.40	9.60	0.01	-9.42
Last 5	15:35:27	10506.83	22.44	5.45	688.92	72.60	9.60	0.01	-11.62
Variance 0			-0.03	-0.01	0.91			-0.00	-0.34
Variance 1			0.33	0.00	-4.27			-0.00	0.44
Variance 2			-0.19	0.00	4.09			0.00	-2.20

Notes

Sampled at 1535. 85F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 16:59:30

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 23.2 ft

Pump placement from TOC 20.2 ft

Well Information:

Well ID GWB-6R
Well diameter 2 in
Well Total Depth 22.7 ft
Screen Length 5 ft
Depth to Water 7.18 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1935514 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	16:37:54	900.01	21.83	5.85	1004.56	18.40	7.30	0.04	-25.56
Last 5	16:42:54	1200.00	21.56	5.85	1000.87	18.60	7.30	0.04	-26.52
Last 5	16:47:54	1499.99	21.55	5.84	997.94	26.10	7.30	0.03	-26.67
Last 5	16:52:55	1800.99	21.46	5.84	996.75	20.70	7.30	0.03	-27.18
Last 5	16:57:55	2100.98	21.46	5.86	1002.94	21.00	7.30	0.03	-27.99
Variance 0			-0.02	-0.01	-2.92			-0.01	-0.15
Variance 1			-0.09	0.00	-1.19			-0.00	-0.51
Variance 2			0.01	0.01	6.19			-0.00	-0.81

Notes

Sampled at 1658. 85F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 11:31:48

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 28.6 ft

Pump placement from TOC 25.6 ft

Well Information:

Well ID GWC-1
Well diameter 2 in
Well Total Depth 28.1 ft
Screen Length 5 ft
Depth to Water 18.36 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2176539 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:10:36	300.02	22.60	5.37	307.54	1.49	18.40	0.17	104.53
Last 5	11:15:36	600.01	22.80	5.37	311.30	1.12	18.40	0.11	103.22
Last 5	11:20:36	900.00	22.89	5.36	306.46	0.87	18.40	0.09	100.89
Last 5	11:25:36	1200.00	23.20	5.36	305.52	0.91	18.40	0.08	101.29
Last 5	11:30:36	1500.00	23.07	5.36	302.89	0.88	18.40	0.08	96.75
Variance 0			0.09	-0.01	-4.83			-0.03	-2.33
Variance 1			0.31	-0.01	-0.94			-0.01	0.40
Variance 2			-0.13	0.00	-2.63			0.00	-4.54

Notes

Sampled at 1130. 78F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 12:27:33

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 31.9 ft

Pump placement from TOC 28.9 ft

Well Information:

Well ID GWC-2
Well diameter 2 in
Well Total Depth 31.4 ft
Screen Length 5 ft
Depth to Water 17.54 ft

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.2323832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 19.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	12:05:20	3599.95	22.95	4.66	77.44	8.42	17.70	0.03	76.49
Last 5	12:10:20	3899.95	22.80	4.67	75.86	7.21	17.70	0.04	73.71
Last 5	12:15:20	4199.95	22.73	4.66	76.89	6.16	17.70	0.03	72.89
Last 5	12:20:21	4500.94	22.80	4.66	77.27	5.32	17.70	0.04	70.91
Last 5	12:25:21	4800.94	23.09	4.66	77.37	4.55	17.70	0.03	72.72
Variance 0			-0.07	-0.01	1.03			-0.00	-0.82
Variance 1			0.08	0.00	0.38			0.00	-1.99
Variance 2			0.28	0.00	0.10			-0.01	1.82

Notes

Sampled at 1225. 77F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 09:59:59

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 30 ft

Pump placement from TOC 23 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 25.7 ft
Screen Length 5 ft
Depth to Water 8.18 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33 in
Total Volume Pumped 13.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	09:34:07	300.02	21.02	5.47	130.20	7.10	8.70	0.32	115.55
Last 5	09:39:07	600.01	21.04	4.89	130.18	7.00	9.60	0.23	117.36
Last 5	09:44:07	900.01	21.47	4.77	130.50	6.90	10.00	0.20	120.71
Last 5	09:49:07	1200.01	21.80	4.74	130.38	6.70	11.20	0.22	116.00
Last 5	09:54:07	1500.00	21.75	4.73	129.51	7.80	12.20	0.21	116.57
Variance 0			0.43	-0.12	0.31			-0.04	3.35
Variance 1			0.32	-0.02	-0.11			0.02	-4.71
Variance 2			-0.05	-0.02	-0.87			-0.01	0.57

Notes

Sample time: 1000. Weather: cloudy 70s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 12:32:01

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 25 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWC-11
Well diameter 2 in
Well Total Depth 22.55 ft
Screen Length 5 ft
Depth to Water 10.74 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 47 in
Total Volume Pumped 12.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:08:02	4501.97	22.82	5.06	784.42	5.40	14.60	0.18	247.33
Last 5	12:13:02	4801.97	23.79	5.07	950.72	5.80	14.60	0.12	247.08
Last 5	12:18:02	5101.97	24.04	5.06	985.74	4.80	14.60	0.12	246.52
Last 5	12:23:02	5401.97	24.04	5.05	1020.90	4.90	14.60	0.12	246.60
Last 5	12:28:02	5702.00	23.91	5.05	1030.57	3.90	14.60	0.12	246.71
Variance 0			0.25	-0.00	35.02			-0.00	-0.56
Variance 1			-0.01	-0.01	35.15			-0.00	0.08
Variance 2			-0.13	-0.00	9.68			0.00	0.11

Notes

Sample time: 12:35 Weather: sunny 80s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 09:57:34

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 27 ft

Pump placement from TOC 24 ft

Well Information:

Well ID GWC-12
Well diameter 2 in
Well Total Depth 26.70 ft
Screen Length 5 ft
Depth to Water 10.68 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:34:41	600.02	21.67	4.05	760.75	0.60	11.20	0.10	239.82
Last 5	09:39:41	900.02	21.84	4.07	765.04	0.70	11.20	0.09	224.85
Last 5	09:44:41	1200.01	21.72	4.08	756.48	0.80	11.20	0.08	202.91
Last 5	09:49:41	1500.01	21.68	4.09	747.75	0.70	11.20	0.07	195.62
Last 5	09:54:41	1800.00	21.73	4.10	744.01	0.70	11.20	0.07	176.38
Variance 0			-0.12	0.01	-8.56			-0.01	-21.94
Variance 1			-0.04	0.01	-8.73			-0.01	-7.30
Variance 2			0.05	0.01	-3.74			-0.00	-19.24

Notes

Sampling time: 1000. Weather: sunny 70s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 09:56:20

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Road
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 24.6 ft

Pump placement from TOC 21.6 ft

Well Information:

Well ID GWC-13
Well diameter 2 in
Well Total Depth 24.1 ft
Screen Length 5 ft
Depth to Water 12.49 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.1998002 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 15.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	09:33:16	600.01	20.57	4.79	134.56	5.95	12.40	0.16	110.39
Last 5	09:38:16	900.01	20.60	4.79	136.40	3.24	12.40	0.14	100.65
Last 5	09:43:18	1202.00	20.96	4.80	135.81	3.60	12.40	0.11	93.49
Last 5	09:48:19	1502.99	21.06	4.80	131.00	2.14	12.40	0.11	90.59
Last 5	09:53:19	1802.99	21.03	4.81	131.63	3.00	12.40	0.11	87.03
Variance 0			0.37	0.01	-0.59			-0.02	-7.16
Variance 1			0.10	0.01	-4.81			-0.01	-2.90
Variance 2			-0.02	0.00	0.63			0.01	-3.56

Notes

Sampled at 0953. 78F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 17:55:21

Project Information:

Operator Name Z. Davis
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 28 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWC-14
Well diameter 2 in
Well Total Depth 27.0 ft
Screen Length 5 ft
Depth to Water 17.97 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 6.125 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	17:34:24	300.16	20.71	6.17	1101.14	26.20	18.40	0.49	100.56
Last 5	17:39:23	600.03	20.54	6.17	1094.01	21.50	18.40	0.63	93.77
Last 5	17:44:23	1200.03	20.24	6.17	1107.72	15.00	18.40	0.57	97.09
Last 5	17:49:23	1500.03	20.26	6.16	1108.35	11.10	18.40	0.57	89.17
Last 5	17:54:26	1803.02	20.21	6.20	1105.56	4.23	18.40	0.63	84.89
Variance 0			-0.30	0.00	13.71			-0.06	3.31
Variance 1			0.02	-0.01	0.63			-0.00	-7.92
Variance 2			-0.04	0.03	-2.79			0.06	-4.28

Notes

Sampled 17:55. Cloudy at 80 degrees F.

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 16:02:33

Project Information:

Operator Name Z. Davis
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 28 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWC-15
Well diameter 2 in
Well Total Depth 26.6 ft
Screen Length 5 ft
Depth to Water 18.45 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	15:40:06	600.03	22.56	6.84	716.82	4.36	18.80	0.29	81.33
Last 5	15:45:54	1067.62	22.56	6.85	714.01	3.81	18.80	0.20	75.21
Last 5	15:50:54	1367.62	22.66	6.85	711.56	3.75	18.80	0.17	71.45
Last 5	15:55:02	1675.62	22.71	6.84	709.36	3.16	18.80	0.16	69.59
Last 5	16:00:05	1978.30	22.49	6.83	710.39	3.08	18.80	0.14	67.38
Variance 0			0.11	-0.00	-2.46			-0.03	-3.76
Variance 1			0.05	-0.01	-2.20			-0.01	-1.86
Variance 2			-0.23	-0.01	1.03			-0.02	-2.21

Notes

GWC-15. Sampled 4/7/20 at 16:10. Weather is cloudy, 85 degrees F

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 10:44:41

Project Information:

Operator Name Z. David
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 29.2 ft

Pump placement from TOC 25.5 ft

Well Information:

Well ID GWC-16
Well diameter 2 in
Well Total Depth 28.2 ft
Screen Length 5 ft
Depth to Water 19.97 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.2203319 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 14.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	10:24:43	1608.09	22.71	5.95	1813.16	7.04	20.20	1.09	71.25
Last 5	10:29:43	1908.08	22.82	5.95	1806.76	6.31	20.20	1.08	67.07
Last 5	10:34:46	2211.08	22.96	5.94	1810.12	6.12	20.20	1.08	64.68
Last 5	10:39:46	2511.08	23.00	5.94	1810.20	5.96	20.30	1.06	62.40
Last 5	10:44:46	2811.08	23.08	5.94	1815.76	4.95	20.30	1.04	60.81
Variance 0			0.13	-0.01	3.35			0.00	-2.39
Variance 1			0.04	-0.00	0.08			-0.02	-2.28
Variance 2			0.08	0.00	5.57			-0.02	-1.59

Notes

GWC-16. Sampled at 10:45. Weather is cloudy, 76 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 15:30:43

Project Information:

Operator Name Z. Davis
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 23 ft

Pump placement from TOC 21 ft

Well Information:

Well ID GWC-17
Well diameter 2 in
Well Total Depth 23.0 ft
Screen Length 5 ft
Depth to Water 6.81 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.6 in
Total Volume Pumped 18.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	15:09:48	17792.33	22.80	4.67	1327.18	29.50	8.10	0.23	77.86
Last 5	15:15:01	18105.34	22.96	4.66	1326.62	23.90	8.10	0.21	80.70
Last 5	15:20:01	18405.34	22.47	4.72	1319.36	21.80	8.10	0.25	73.80
Last 5	15:25:01	18705.34	22.59	4.72	1320.70	17.00	8.10	0.26	74.22
Last 5	15:30:01	19005.33	22.46	4.71	1330.65	9.80	8.10	0.24	73.26
Variance 0			-0.49	0.07	-7.25			0.04	-6.90
Variance 1			0.12	-0.00	1.34			0.01	0.42
Variance 2			-0.14	-0.01	9.95			-0.02	-0.95

Notes

Started purge during cal at 0900 Sample
time: 15:35. Weather cloudy 70s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-08 11:57:07

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 28 ft

Pump placement from TOC 22.5 ft

Well Information:

Well ID GWC-20
Well diameter 2 in
Well Total Depth 24.91 ft
Screen Length 5 ft
Depth to Water 20.36 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 8.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:33:52	1800.00	22.80	6.29	1152.15	0.90	20.60	0.12	-15.62
Last 5	11:38:52	2100.00	22.96	6.30	1146.21	0.70	20.60	0.13	-16.88
Last 5	11:43:52	2400.00	22.96	6.30	1127.23	0.60	20.60	0.14	-16.22
Last 5	11:48:52	2699.99	22.96	6.31	1130.34	0.50	20.60	0.13	-16.76
Last 5	11:53:52	2999.99	23.18	6.31	1136.19	0.60	20.60	0.16	-15.41
Variance 0			-0.00	0.00	-18.97			0.01	0.66
Variance 1			0.00	0.01	3.11			-0.01	-0.54
Variance 2			0.22	0.01	5.85			0.03	1.35

Notes

Sample time: 1200. Weather: cloudy 70s

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 13:43:06

Project Information:

Operator Name Z. Davis
Company Name ACC
Project Name 1st SA
Site Name Plant Kraft - Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Perri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 24 ft

Pump placement from TOC 21 ft

Well Information:

Well ID GWC-21
Well diameter 2 in
Well Total Depth 23.8 ft
Screen Length 5 ft
Depth to Water 19.86 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.1971222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	13:21:13	4804.03	25.37	5.92	101.49	0.87	20.10	4.99	84.22
Last 5	13:26:25	5416.03	24.91	5.96	101.39	0.84	20.10	5.05	81.73
Last 5	13:31:25	5716.03	25.24	5.96	107.15	0.77	20.10	4.91	83.21
Last 5	13:36:26	6017.03	25.30	5.98	108.86	0.79	20.10	4.95	82.58
Last 5	13:41:26	6317.03	25.06	6.00	112.57	0.76	20.10	4.58	82.35
Variance 0			0.34	0.00	5.75			-0.14	1.48
Variance 1			0.06	0.02	1.71			0.04	-0.63
Variance 2			-0.24	0.02	3.71			-0.38	-0.23

Notes

GWC-21. Sampled at 13:45. Weather is cloudy, 84 degrees F

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-07 15:37:08

Project Information:

Operator Name Anna Schnittker
Company Name ACC
Project Name Plant Kraft Grumman Rd 1st SA
Site Name Plant Kraft Grumman Rd
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 19 ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWC-22
Well diameter 2 in
Well Total Depth 18.6 ft
Screen Length 5 ft
Depth to Water 7.10 ft

Pumping Information:

Final Pumping Rate 165 mL/min
Total System Volume 0.1748051 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 14.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:13:29	4804.98	23.28	4.80	741.91	1.40	7.30	0.06	249.14
Last 5	15:18:29	5104.96	22.06	4.81	819.78	1.30	7.30	0.04	246.53
Last 5	15:23:31	5406.96	22.32	4.79	940.79	1.30	7.30	0.04	252.55
Last 5	15:28:31	5706.96	21.75	4.80	938.79	1.30	7.30	0.03	252.19
Last 5	15:33:31	6006.96	21.42	4.80	970.79	1.30	7.30	0.02	256.19
Variance 0			0.26	-0.02	121.02			0.00	6.02
Variance 1			-0.57	0.01	-2.00			-0.01	-0.36
Variance 2			-0.34	0.00	31.99			-0.00	4.00

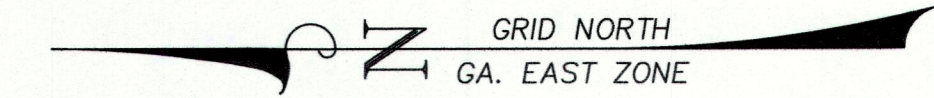
Notes

Sample time: 15:40. Weather: cloudy 80s

Grab Samples

APPENDIX B

Monitoring Well Survey Data



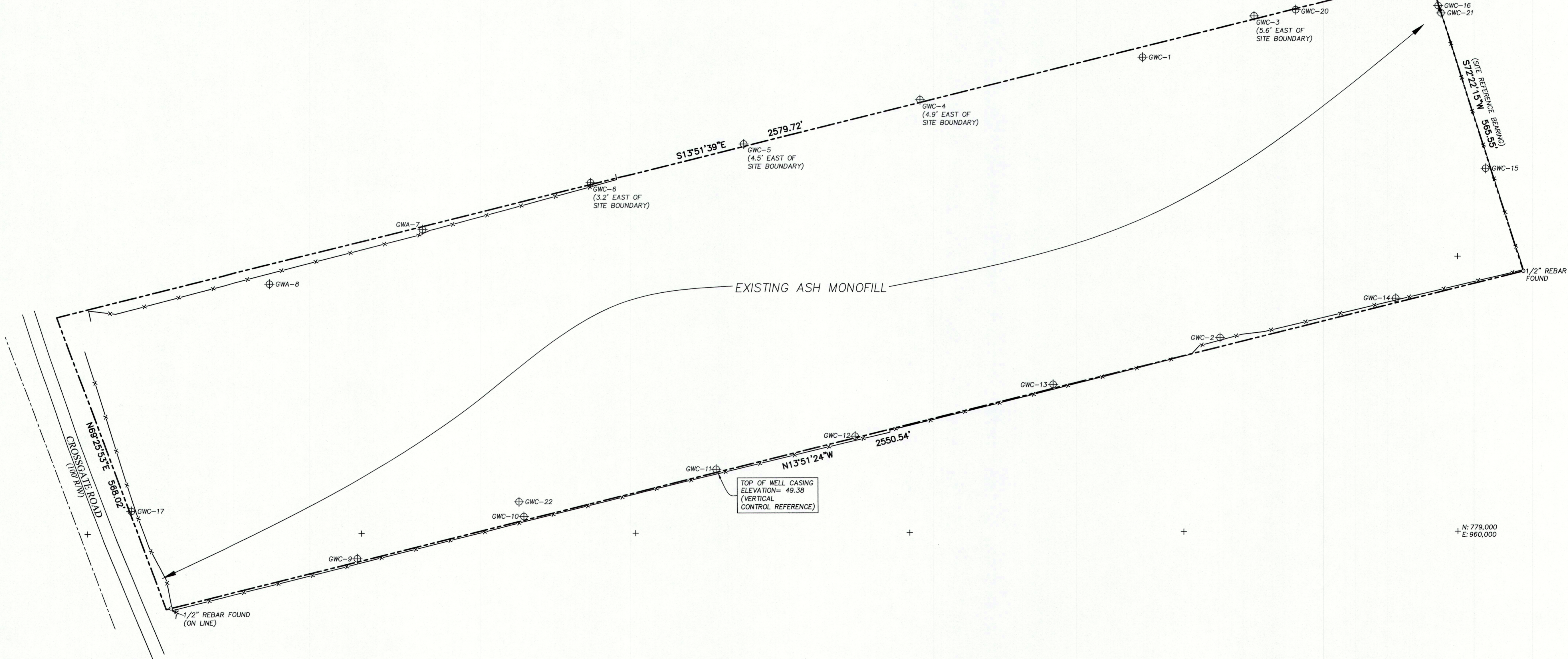
N: 781500
E: 961000

N: 779,051.26
E: 961,012.04
(HORIZONTAL CONTROL REFERENCE)

CONCRETE MONUMENT FOUND
N: 779,000
E: 961,000

(SITE REFERENCE BEARING)
S 77° 15' W
569.55'

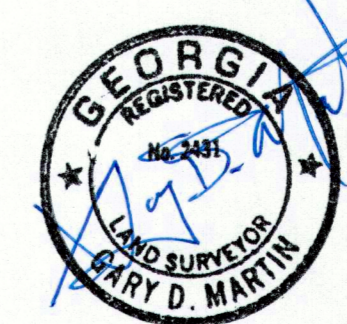
N: 779,000
E: 960,000



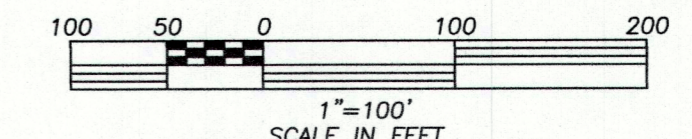
TOP OF WELL CASING
ELEVATION = 49.38
(VERTICAL CONTROL REFERENCE)

**GROUNDWATER MONITORING WELL
COORDINATE/ELEVATION TABLE**

Well ID	Easting	Northing	Top of Casing	Base	Ground Surface
GWC-1	960864.07	779574.06	50.30	47.17	—
GWC-2	960353.27	779433.44	49.15	46.95	46.51
GWC-3	960938.90	779370.58	49.76	46.88	46.70
GWC-4	960787.86	779980.30	48.96	46.61	46.44
GWC-5	960707.98	780302.13	48.33	45.74	45.45
GWC-6	960637.83	780581.14	48.27	45.11	44.84
GWA-7	960553.30	780887.99	47.10	44.71	46.11
GWA-8	960453.78	781167.66	46.84	44.14	44.02
GWC-9	959954.35	781007.52	47.11	43.70	43.62
GWC-10	960030.15	780703.64	47.43	44.81	44.38
GWC-11	960115.63	780352.70	49.38	46.07	45.78
GWC-12	960175.37	780099.06	47.48	44.45	43.78
GWC-13	960268.64	779737.90	47.82	44.67	44.48
GWC-14	960423.84	779112.64	50.70	47.94	47.45
GWC-15	960660.49	778948.31	48.12	45.52	45.34
GWC-16	960956.85	779034.61	47.79	45.06	44.95
GWC-17	960041.65	781420.05	44.09	41.45	41.45
GWC-20	960950.04	779294.68	50.03	46.96	46.74
GWC-21	960941.58	779031.11	47.94	44.84	44.70
GWC-22	960057.05	780712.60	46.72	43.77	43.71



NOTES:
 1) THE SPECIFIC PURPOSE OF THIS SURVEY/MAP IS TO PROVIDE LOCATIONS/ ELEVATIONS OF MONITORING WELLS IN RELATION TO SITE BOUNDARIES.
 2) SITE BOUNDARIES/ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE FOLLOWING FURNISHED DATA:
 A. "PLANT CRAFT GRUMAN ROAD MONOFILL EXISTING CONDITIONS TOPOGRAPHIC MAP, DATED NOVEMBER, 1996" BY SOUTHERN COMPANY SERVICES, INC. FOR SAVANNAH ELECTRIC & POWER CO.
 B. "SAVANNAH ELECTRIC & POWER CO. ASH DISPOSAL SITE SUPPORTING DATA" BY HUSSEY, GAY & BELL, DATED SEPTEMBER, 1986.
 3) THE CERTIFICATION SHOWN HEREON IS LIMITED TO ABOVE NOTES 1) AND 2) THIS SURVEY IS NOT TO BE INTERPRETED AS A FORMAL BOUNDARY SURVEY OF THE SITE.
 4) HORIZONTAL/ VERTICAL DATUM SHOWN HEREON IS REFERENCED TO EXISTING SITE DATUM (SEE ABOVE NOTATIONS)
 5) DATE OF FIELD SURVEY: 10/26/2017



LEGEND
 ⊕ GROUNDWATER MONITORING WELL
 -X- FENCE
 --- SITE BOUNDARY

REVISION	DATE

AS-BUILT/RECORD SURVEY FOR:
**PLANT CRAFT
 GRUMAN ROAD LANDFILL**
 120 GULFSTREAM ROAD
 PORT WENTWORTH, GEORGIA
 NOVEMBER 13, 2017

Gunnin
 LAND SURVEYING, LLC
 107 MOUNTAIN BROOK DRIVE, SUITE 104
 CANTON, GA 30115
 www.gunninlandsurveying.com
 Land Surveyor Firm License No. LSF001033
 File # 678.609.4721

107 Mountain Brook Dr., Ste. 104
Canton, GA 30115



www.gunninsurvey.com
678.880.7502

DATE: October 23, 2018
TO: Atlantic Coast Consulting, Inc.
630 Colonial Park Dr # 110,
Roswell, GA 30075
ATTN: Evan Perry
SUBJECT: Grumman Road Landfill - Monitoring Well Data

The following data has been established on the new wells using existing site datum.

Well ID	Northing	Easting	Surface Elev.	Concrete Elev.	PVC Elev.	TOC Elev.
GWB-4R	779976.24	960771.51	46.37	46.43	45.86	46.50
GWB-5R	780294.37	960686.46	45.09	45.31	47.82	48.06
GWB-6R	780573.41	960610.31	44.55	44.71	47.40	47.70

Sincerely yours,

Gunnin Land Surveying, LLC.

A handwritten signature in blue ink, appearing to read 'Gary D. Martin', is written over the typed name.

Gary D. Martin, L.S. Principal Surveyor



107 Mountain Brook Dr., Ste. 104
Canton, GA 30115



www.gunninsurvey.com
678.880.7502

DATE: June 17, 2020

TO: Atlantic Coastal Consulting, Inc
1150 Northmeadow Parkway
Suite 100
Roswell, GA 30076

ATTN: Evan Perry of Atlantic Coastal Consulting

SUBJECT: Grumman Road Landfill: 2 Wells

The following data has been established on the new wells using existing site datum. The Surveyor can provide Georgia State Plane East Zone (NAD 83 horizontal and NAVD 88 vertical) coordinates upon request.

WELL ID	NORTHING	EASTING	ELEVATION	ELEVATION	ELEVATION
	NAIL	Nail	NAIL	TOP OF CASE	TOP OF PVC
GWC-2	779433.81	960353.99	48.11	51.90	51.84

WELL ID	NORTHING	EASTING	ELEVATION	ELEVATION	ELEVATION
	TOP OF CASE	TOP OF CASE	PAD	TOP OF CASE	TOP OF PVC
GWB-4R	779975.87	960770.83	46.82	50.48	49.58

Sincerely yours,

Gunnin Land Surveying, LLC.



Jesse R. Gunnin, L.S. Principal Surveyor

APPENDIX C

Statistical Analyses

**Second 2019 Semiannual
Statistical Analysis of
Appendix IV Constituents**
(Completed by ACC, Inc.)



1150 Northmeadow Pkwy.
Suite 100
Roswell, GA 30076
(770) 594-5998
www.atlcc.net

April 10, 2020

Ms. Lauren Petty, P.G.
Southern Company – Environmental Solutions
3535 Colonnade Pkwy., Bin S530 EC
Birmingham, Alabama 35243

RE: 2019 Semi-Annual Groundwater Monitoring & Corrective Action Statistical Summary
Grumman Road Private Industrial Landfill
GA EPD Permit No. 025-061D(LI)
Chatham County

Dear Ms. Petty:

This letter presents statistical analysis for Georgia Power Company’s Grumman Road Private Industrial Landfill (Site) October 2019 assessment monitoring event. The statistical methods comply with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follow the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). Appendix I and II metals required by the existing state permit, Appendix III parameters, and Appendix IV parameters detected during the August 2019 monitoring event are included in the statistical analysis (Table 1, Summary of Groundwater Monitoring Parameters). Statistical methods used for the Site and Appendix I/II and III statistical results previously included in the *2019 Second Semiannual Groundwater Monitoring and Corrective Action Report* are summarized in the following sections of this letter. The Appendix I/II, III, and IV statistical data are provided in Attachment A.

Table 1. Summary of Groundwater Monitoring Parameters

Appendix III (40 CFR 257)	Appendix IV (40 CFR 257)	Appendix I/II (40 CFR 258)
Boron	Antimony	Antimony
Calcium	Arsenic	Arsenic
Chloride	Barium	Barium
Fluoride	Beryllium	Chromium
pH	Cadmium	Lead
Sulfate	Chromium	Selenium
Total Dissolved Solids	Cobalt	Vanadium
	Fluoride	Zinc
	Lead	
	Lithium	
	Molybdenum	
	Radium 226 and 228 combined	
	Selenium	
	Thallium	

A perimeter groundwater monitoring system has been installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the unit boundary within

the uppermost aquifer. The network includes two upgradient monitoring wells (GWA-7 and GWA-8) and 16 downgradient/sidegradient monitoring 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).

Statistical Methods

All screened historical background data through July 2018 were used to construct statistical limits for both Appendix I/II metals and Appendix III constituents. Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations. Wells and analytes with all data below the reporting limit (i.e., 100% non-detect) do not require statistical analysis.

- **Appendix I/II Groundwater Monitoring Data:** Statistical tests consist of intrawell prediction limits combined with a 1-of-2 verification resample plan for all required metals. In an intrawell comparison, analytical results from an individual well are compared to historical analytical results in that same well. If a result from a sampling event initially exceeds the PL, then verification resampling may be used. In 1-of-2 resampling, an independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If a resample exceeds the PL, the initial exceedance is verified, and a statistically significant increase (SSI) is identified. When a re-sample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.
- **Appendix III Groundwater Monitoring Data:** Statistical tests consist of interwell prediction limits combined with a 1-of-2 verification resample plan for calcium, chloride, fluoride, pH, and sulfate. Monitoring results for boron and total dissolved solids (TDS) are evaluated using intrawell prediction limits combined with a 1-of-3 verification resample plan. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. If the most recent sample exceeds its respective background statistical limit, an initial SSI is identified.
- **Confidence Intervals for Appendix II Metals and Appendix IV Parameters:** Parametric tolerance limits were used to calculate background limits, when pooled upgradient well data followed a normal or transformed-normal distribution, with a target of 95% confidence and 95% coverage. Nonparametric tolerance limits are used when the percentage of nondetects is greater than 50% or when data do not follow a normal or transformed normal distribution. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standard (GWPS) established under 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL);
- (2) Where an MCL has not been established, the background concentration;
- (3) Background maximum contaminant level levels for constituents where the background level is higher than the MCL.

USEPA revised the Federal Coal Combustion Residuals (CCR) Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR

257.95(h)(2). Presently those updated GWPS have not yet been incorporated in the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); and therefore, background concentrations are considered when determining the GWPS for constituents where an MCL has not been established (or where background is higher than the MCL), and used to evaluate the existence of a statistically significant level (SSL).

Following the above rule requirements, GWPS have been established for statistical comparison of Appendix II and IV constituents and are presented in Table 2, Summary of Background Levels and Groundwater Protection Standards. To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix II and Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established under the State rules. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed the GWPS at an SSL.

Table 2. Summary of Background Levels and Groundwater Protection Standards

Constituent	Units	Site Background	MCL	RSL	State GWPS
Antimony	mg/L	0.003	0.006		0.006
Arsenic	mg/L	0.029	0.01		0.029
Barium	mg/L	0.22	2		2
Beryllium	mg/L	0.003	0.004		0.004
Cadmium	mg/L	0.005	0.005		0.005
Chromium	mg/L	0.068	0.1		0.1
Cobalt	mg/L	0.010		0.006	0.010
Fluoride	mg/L	0.51	4		4
Lead	mg/L	0.013		0.015	0.013
Lithium	mg/L	0.050		0.040	0.030
Mercury	mg/L	0.0005	0.002		0.002
Molybdenum	mg/L	0.01		0.1	0.01
Selenium	mg/L	0.044	0.050		0.050
Radium	pCi/L	13.2	5		13.2
Thallium	mg/L	0.001	0.002		0.002
Vanadium	mg/L	0.43			0.43
Zinc	mg/L	0.085			0.085

Notes:

1. Site Background = Tolerance limits calculated from pooled upgradient well data through October 2019.
2. MCL = Maximum Contaminant Level, per Georgia EPD Rule 391-3-5-.18(1)(a).
3. RSL = Regional Screening Level, per 40 CFR 257.95(h)(1-3).
4. State GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
5. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter (pCi/L).
6. The background tolerance limit (TL) used to evaluate State GWPS for lithium is equal to the most recent laboratory-specified reporting limit (RL). Per the SAP, and in accordance with the Unified Guidance, a non-parametric limit approach was used because the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL. However, the highest laboratory RL in background was 0.05 mg/L. As a result, the GWPS has been modified to be equal to the most recently used RL, which is 0.03 mg/L.

Statistical Results

- **Appendix I/II Groundwater Monitoring Data (Previously Reported):** Concentrations of target metals were within their respective intrawell prediction limits during the October 2019 sampling event.

Ms. Lauren Petty, P.G.
Grumman Road Private Industrial Landfill
Statistical Comparisons to Groundwater Protection Standards
April 10, 2020



The following Appendix I/II SSIs were reported:

- Arsenic: GWC-15, GWC-16, GWC-20
 - Barium: GWC-16
 - Selenium: GWC-15
 - Zinc: GWC-13
- **Appendix III Groundwater Monitoring Data (Previously Reported):** Analytical data from the October 2019 monitoring event at the Site were analyzed in accordance with the statistical methods.

The following Appendix III SSIs were reported:

- Boron: GWB-6R, GWC-16
 - Calcium: GWB-4R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21
 - Chloride: GWC-17
 - pH: GWC-15, GWC-20
 - Sulfate: GWB-6R, GWC-11, GWC-12, GWC-14, GWC-16, GWC-17
 - TDS: GWB-5R, GWB-6R, GWC-16
- **Confidence Intervals for Appendix II Metals and Appendix IV Parameters:** Review of the statistical analysis included in Attachment A indicates that using the GWPS established according to 391-3-4-.10(6)(a), the following SSLs were identified:
 - Arsenic: GWC-15, GWC-16, GWC-20
 - Molybdenum: GWB-4R, GWC-1, GWC-15, GWC-16, GWC-20, GWC-21

If you have any questions regarding this letter or the attached data, please contact either of the undersigned at (770) 594-5998.

Sincerely,
Atlantic Coast Consulting, Inc.

A handwritten signature in black ink that reads 'William M. Malone'.

William M. Malone
Project Scientist



Evan Perry
Project Manager
Date: 2020-04-10

Enclosures
Copy: ACC Project Folder

ATTACHMENT A

**Appendix I/II Statistics (from 2019 Semiannual Groundwater Monitoring and
Corrective Action Report)**

Intrawell Prediction Limits Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 3:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWC-15	0.09	10/8/2019	0.13	Yes	43	58.14	n/a	0.001037	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWC-16	0.0944	10/8/2019	0.13	Yes	59	0	n/a	0.0005506	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-15	0.01	10/8/2019	0.014	Yes	39	92.31	n/a	0.001226	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-7	0.0853	10/8/2019	0.095	Yes	39	30.77	n/a	0.001226	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.036	10/8/2019	0.053	Yes	38	28.95	n/a	0.001294	NP Intra (normality) 1 of 2

Intrawell Prediction Limits All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 3:56 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWA-7	0.015	10/8/2019	0.015ND	No	41	85.37	n/a	0.001118	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	10/8/2019	0.00046	No	43	90.7	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	10/8/2019	0.003ND	No	43	97.67	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.005	10/8/2019	0.003ND	No	64	98.44	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.006	10/8/2019	0.003ND	No	64	98.44	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	10/9/2019	0.003ND	No	22	95.45	n/a	0.003707	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	10/9/2019	0.003ND	No	21	100	n/a	0.003999	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	10/9/2019	0.003ND	No	43	97.67	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-4R	0.003	10/9/2019	0.003ND	No	43	93.02	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.015	10/9/2019	0.015ND	No	43	100	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-7	0.0287	10/8/2019	0.003	No	41	58.54	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-8	0.005	10/7/2019	0.005ND	No	63	92.06	n/a	0.000487	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0071	10/9/2019	0.0042	No	39	69.23	n/a	0.001226	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.005	10/9/2019	0.005ND	No	43	93.02	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0064	10/8/2019	0.005ND	No	43	95.35	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.011	10/8/2019	0.0017	No	64	81.25	n/a	0.0004732	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.09	10/8/2019	0.13	Yes	43	58.14	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.1212	10/8/2019	0.088	No	62	0	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-17	0.005	10/9/2019	0.0011	No	43	86.05	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.005	10/9/2019	0.005ND	No	41	97.56	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.5741	10/9/2019	0.35	No	22	4.545	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-21	0.005	10/8/2019	0.0028	No	17	76.47	n/a	0.005914	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.005	10/9/2019	0.005ND	No	21	61.9	n/a	0.003999	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0068	10/9/2019	0.0024	No	39	61.54	n/a	0.001226	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.023	10/9/2019	0.0053	No	42	71.43	n/a	0.001077	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.025	10/9/2019	0.0018	No	43	60.47	n/a	0.001037	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-7	0.2043	10/8/2019	0.1	No	41	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWA-8	0.14	10/7/2019	0.069	No	60	0	n/a	0.0005281	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-1	0.1141	10/9/2019	0.058	No	42	0	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-11	0.2074	10/8/2019	0.13	No	42	0	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-12	0.1722	10/9/2019	0.019	No	38	0	ln(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-13	0.03175	10/8/2019	0.024	No	42	14.29	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-14	0.1324	10/8/2019	0.085	No	62	0	x^(1/3)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-15	0.05948	10/8/2019	0.057	No	40	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-16	0.0944	10/8/2019	0.13	Yes	59	0	n/a	0.0005506	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-17	0.247	10/9/2019	0.032	No	42	0	x^2	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-2	0.07214	10/9/2019	0.05	No	39	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1775	10/9/2019	0.078	No	22	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-21	0.1503	10/8/2019	0.079	No	21	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.1535	10/9/2019	0.065	No	21	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-9	0.356	10/9/2019	0.18	No	42	0	n/a	0.001077	NP Intra (normality) 1 of 2
Barium (mg/L)	GWB-4R	0.261	10/9/2019	0.076	No	42	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-5R	0.3072	10/9/2019	0.13	No	40	0	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-6R	0.2605	10/9/2019	0.014	No	42	0	sqrt(x)	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWA-7	0.068	10/8/2019	0.021	No	41	36.59	n/a	0.001118	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-8	0.014	10/7/2019	0.00052	No	61	93.44	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.0021	10/9/2019	0.0019	No	41	70.73	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.01	10/8/2019	0.00091	No	43	69.77	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.01	10/9/2019	0.00081	No	43	72.09	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.01	10/8/2019	0.01ND	No	43	79.07	n/a	0.001037	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 3:56 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GWC-14	0.014	10/8/2019	0.00053	No	61	67.21	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.01	10/8/2019	0.0017	No	43	72.09	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.01	10/8/2019	0.00099	No	62	80.65	n/a	0.0005007	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.01	10/9/2019	0.00081	No	42	78.57	n/a	0.001077	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.01	10/9/2019	0.00049	No	41	90.24	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	10/9/2019	0.0011	No	22	54.55	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	10/8/2019	0.00065	No	21	57.14	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	10/9/2019	0.00072	No	21	80.95	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.014	10/9/2019	0.0009	No	43	65.12	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWB-4R	0.03411	10/9/2019	0.002	No	43	0	No	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWB-5R	0.03	10/9/2019	0.012	No	38	39.47	n/a	0.001294	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWB-6R	0.025	10/9/2019	0.011	No	42	7.143	n/a	0.001077	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-7	0.013	10/8/2019	0.0098	No	40	65	n/a	0.001159	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-8	0.0095	10/7/2019	0.005ND	No	62	90.32	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.005	10/9/2019	0.005ND	No	43	97.67	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	10/8/2019	0.00028	No	42	78.57	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.005	10/9/2019	0.000066	No	43	76.74	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.0078	10/8/2019	0.00013	No	43	81.4	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.005	10/8/2019	0.005ND	No	62	95.16	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.0065	10/8/2019	0.00012	No	43	88.37	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.017	10/8/2019	0.0001	No	62	88.71	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.005	10/9/2019	0.00015	No	43	93.02	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.0069	10/9/2019	0.000064	No	41	90.24	n/a	0.001118	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	10/9/2019	0.00018	No	22	86.36	n/a	0.003707	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.005	10/8/2019	0.00016	No	21	80.95	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	10/9/2019	0.00032	No	21	57.14	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.0051	10/9/2019	0.005ND	No	42	88.1	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.011	10/9/2019	0.00041	No	37	59.46	n/a	0.001361	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.075	10/9/2019	0.0025	No	42	64.29	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.025	10/9/2019	0.00033	No	43	81.4	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-7	0.0438	10/8/2019	0.0072	No	40	65	n/a	0.001159	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-8	0.01	10/7/2019	0.01ND	No	62	96.77	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.023	10/9/2019	0.0024	No	41	58.54	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.036	10/8/2019	0.01ND	No	43	62.79	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.01	10/9/2019	0.01ND	No	43	93.02	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.1	10/8/2019	0.0026	No	63	23.81	n/a	0.000487	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-15	0.01	10/8/2019	0.014	Yes	39	92.31	n/a	0.001226	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0085	10/8/2019	0.0023	No	62	75.81	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.01	10/9/2019	0.01ND	No	43	83.72	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.01	10/9/2019	0.01ND	No	41	92.68	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.01	10/9/2019	0.01ND	No	22	86.36	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.04932	10/8/2019	0.019	No	21	4.762	No	0.0004115	Param Intra 1 of 2
Selenium (mg/L)	GWC-22	0.01	10/9/2019	0.01ND	No	21	80.95	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	10/9/2019	0.01ND	No	43	97.67	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.01	10/9/2019	0.01ND	No	34	67.65	n/a	0.001599	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.011	10/9/2019	0.0073	No	43	88.37	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.05	10/9/2019	0.05ND	No	43	83.72	n/a	0.001037	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-7	0.425	10/8/2019	0.11	No	41	29.27	n/a	0.001118	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWA-8	0.01	10/7/2019	0.01ND	No	60	91.67	n/a	0.0005281	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.01	10/9/2019	0.01ND	No	39	58.97	n/a	0.001226	NP Intra (NDs) 1 of 2

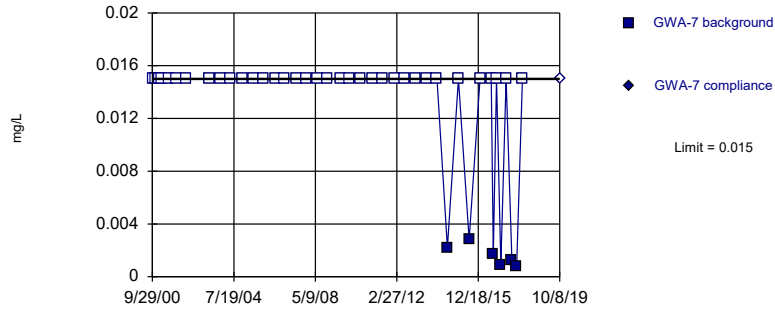
Intrawell Prediction Limits All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 3:56 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Vanadium (mg/L)	GWC-11	0.01	10/8/2019	0.01ND	No	40	55	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.01	10/9/2019	0.0021	No	40	80	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.01	10/8/2019	0.01ND	No	40	80	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.04797	10/8/2019	0.01ND	No	62	16.13	x^(1/3)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-15	0.01	10/8/2019	0.01ND	No	40	72.5	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.012	10/8/2019	0.01ND	No	62	50	n/a	0.0005007	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-17	0.01	10/9/2019	0.01ND	No	40	75	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.01	10/9/2019	0.01ND	No	38	100	n/a	0.001294	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.01	10/9/2019	0.01ND	No	21	38.1	n/a	0.003999	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-21	0.007919	10/8/2019	0.01ND	No	18	33.33	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-22	0.01	10/9/2019	0.01ND	No	18	61.11	n/a	0.005373	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.014	10/9/2019	0.01ND	No	40	87.5	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.1423	10/9/2019	0.01ND	No	40	0	sqrt(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-5R	0.04817	10/9/2019	0.033	No	33	15.15	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-6R	0.18	10/9/2019	0.018	No	40	7.5	n/a	0.001159	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-7	0.0853	10/8/2019	0.095	Yes	39	30.77	n/a	0.001226	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-8	0.01	10/7/2019	0.0077	No	57	24.56	n/a	0.0005955	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.011	10/9/2019	0.0057	No	40	85	n/a	0.001159	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-11	0.013	10/8/2019	0.0061	No	39	69.23	n/a	0.001226	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-12	0.053	10/9/2019	0.0057	No	35	25.71	n/a	0.001497	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.036	10/8/2019	0.053	Yes	38	28.95	n/a	0.001294	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.011	10/8/2019	0.0052	No	63	87.3	n/a	0.000487	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-15	0.011	10/8/2019	0.0051	No	41	90.24	n/a	0.001118	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-16	0.01	10/8/2019	0.01	No	61	67.21	n/a	0.0005144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-17	0.0175	10/9/2019	0.011	No	40	32.5	n/a	0.001159	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.012	10/9/2019	0.005	No	37	81.08	n/a	0.001361	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.01	10/9/2019	0.0049	No	20	85	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.01	10/8/2019	0.0071	No	17	58.82	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-22	0.02471	10/9/2019	0.0079	No	17	11.76	No	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWC-9	0.0059	10/9/2019	0.0054	No	37	45.95	n/a	0.001361	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWB-4R	0.1912	10/9/2019	0.0064	No	40	17.5	ln(x)	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWB-5R	0.036	10/9/2019	0.0081	No	33	51.52	n/a	0.001701	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWB-6R	0.05	10/9/2019	0.016	No	19	26.32	n/a	0.004832	NP Intra (normality) 1 of 2

Within Limit

Antimony Intrawell Non-parametric

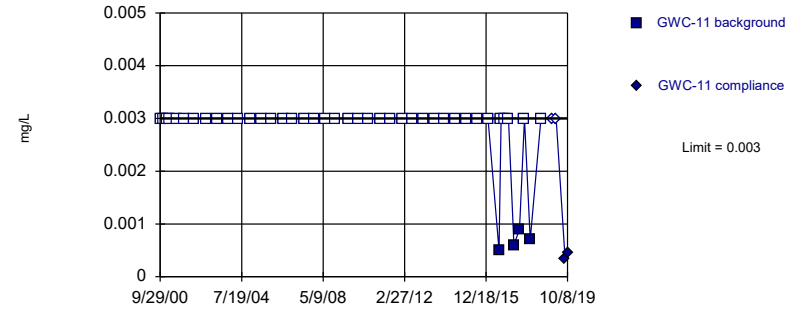


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 85.37% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:42 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

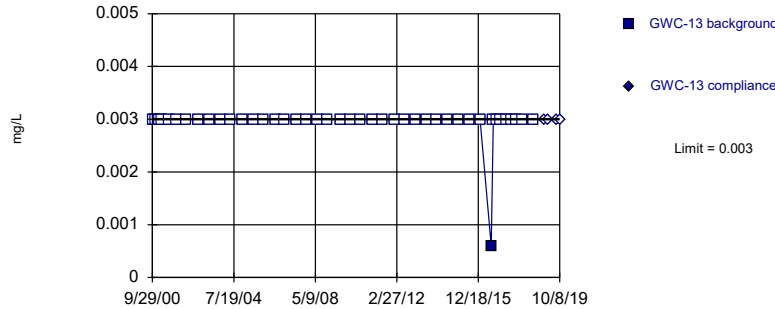


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 90.7% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

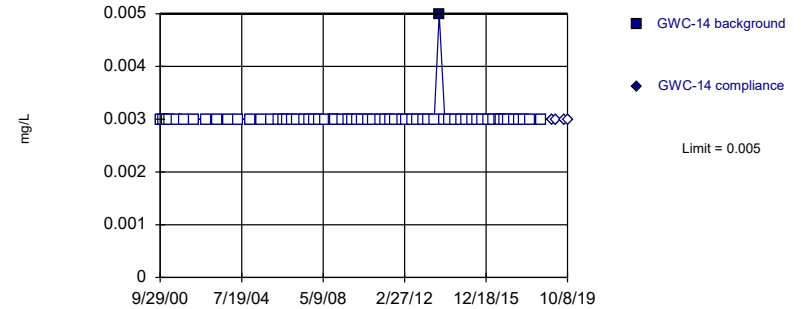


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

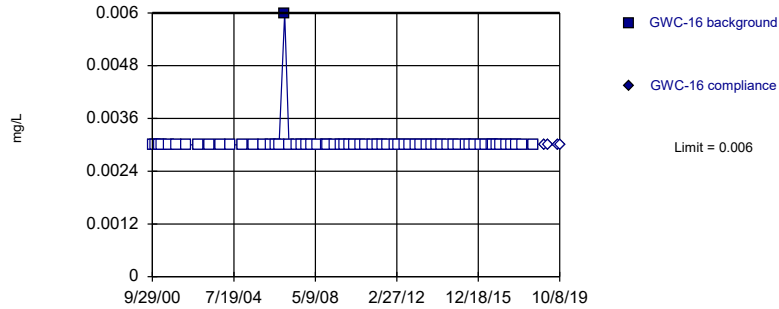


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 98.44% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

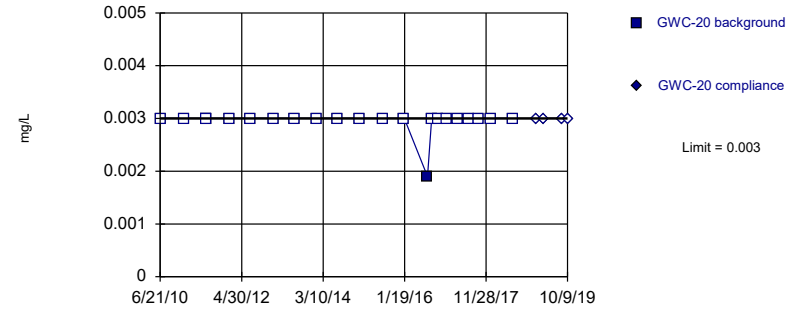


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 98.44% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

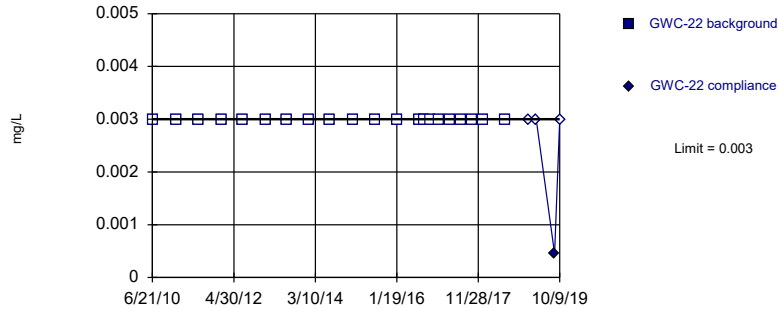


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

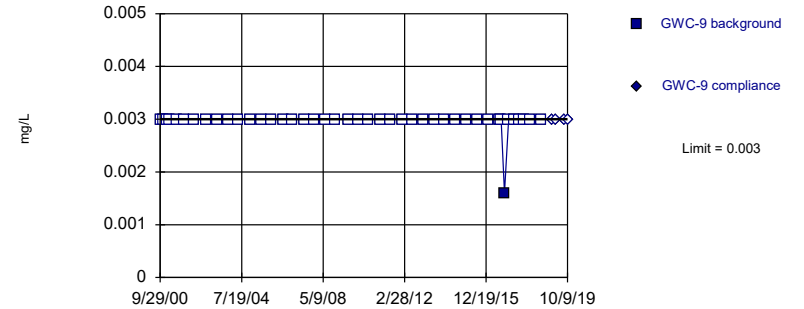


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 100% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

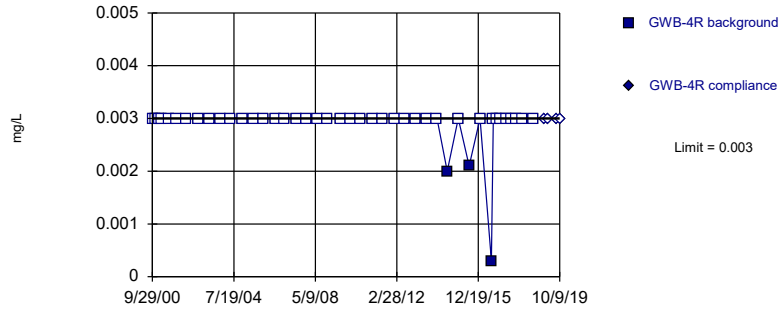


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

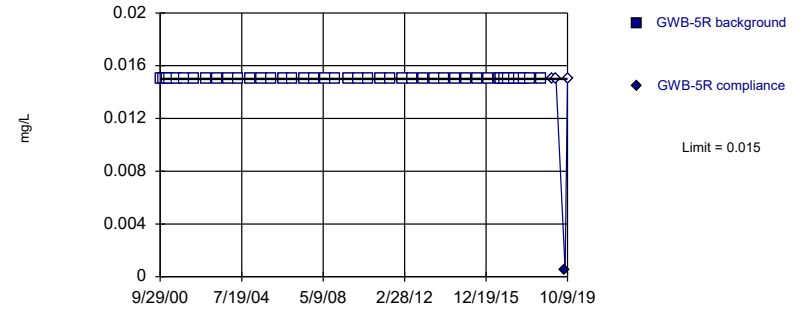


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Antimony Intrawell Non-parametric

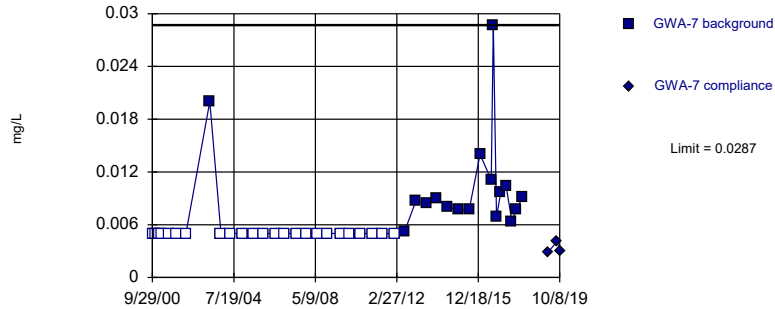


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 100% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic Intrawell Non-parametric

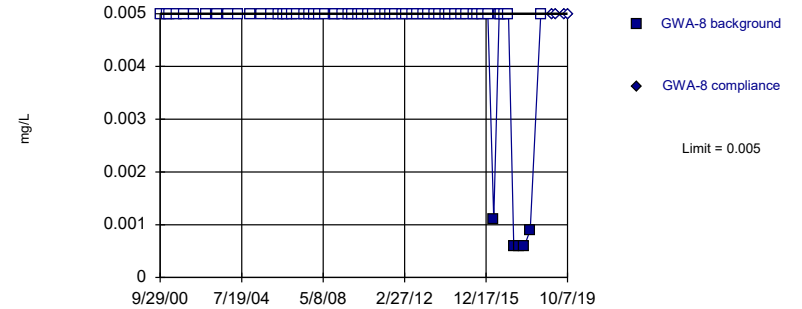


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 58.54% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic Intrawell Non-parametric

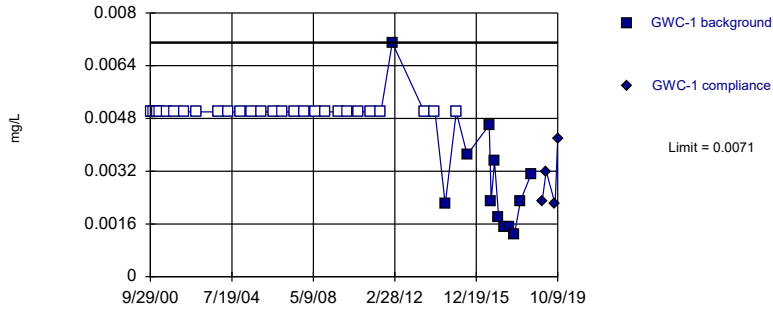


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 92.06% NDs. Well-constituent pair annual alpha = 0.0009737. Individual comparison alpha = 0.000487 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

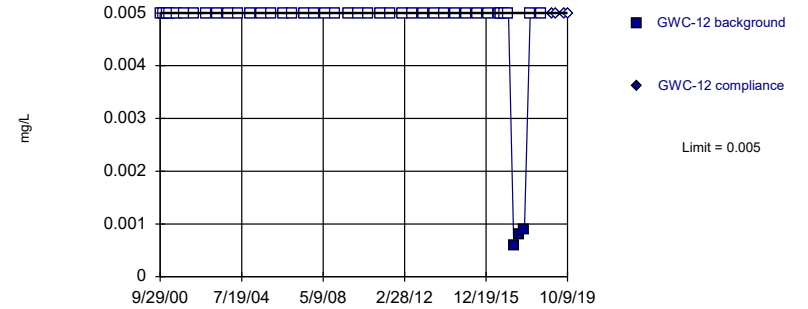


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

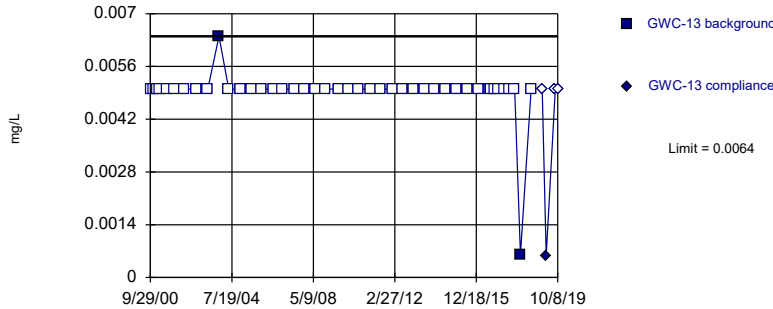


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

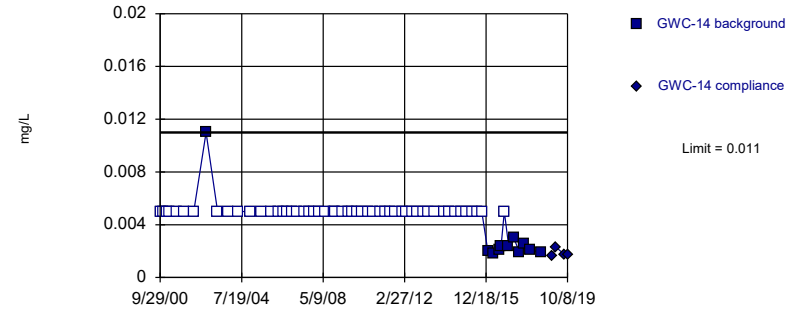


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 95.35% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

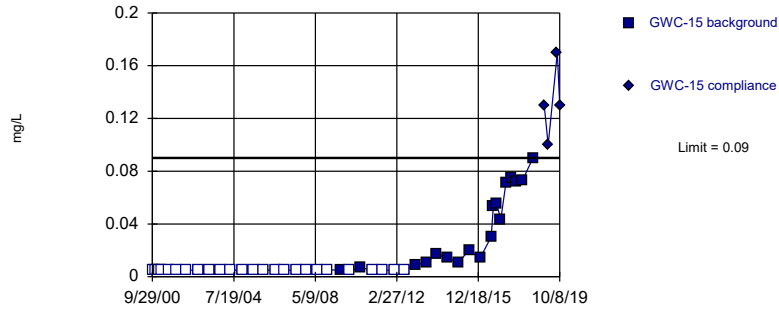


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Arsenic
Intrawell Non-parametric

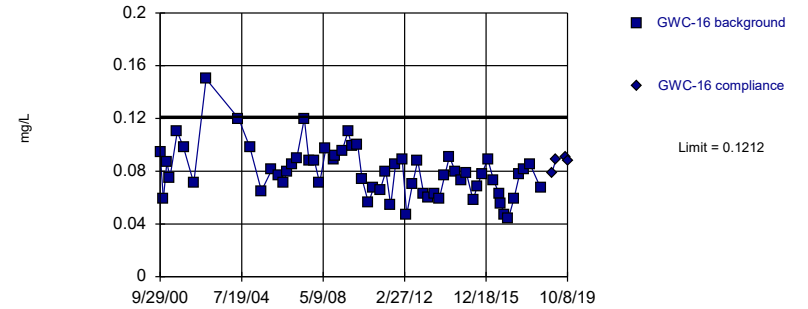


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 58.14% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Parametric

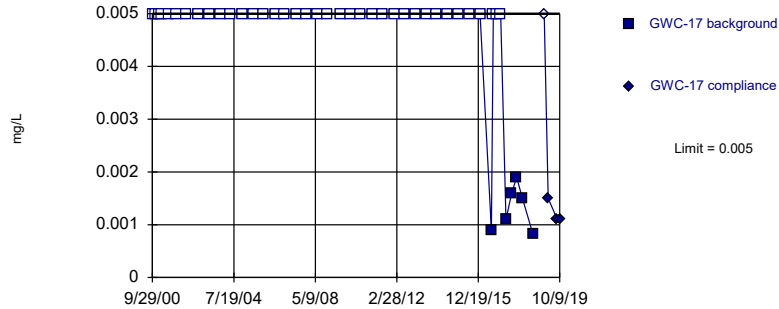


Background Data Summary: Mean=0.07945, Std. Dev.=0.01932, n=62. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9486, critical = 0.947. Kappa = 2.162 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

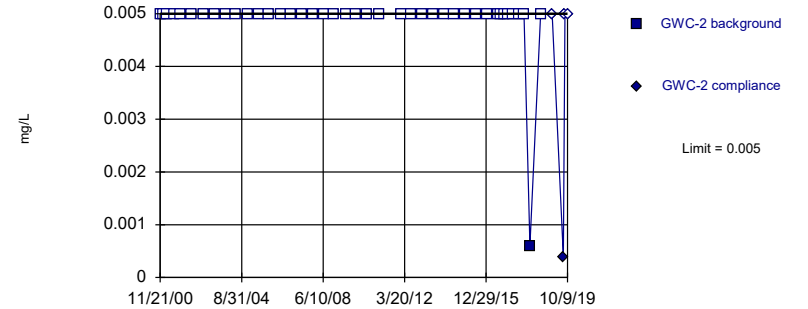


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 86.05% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:43 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

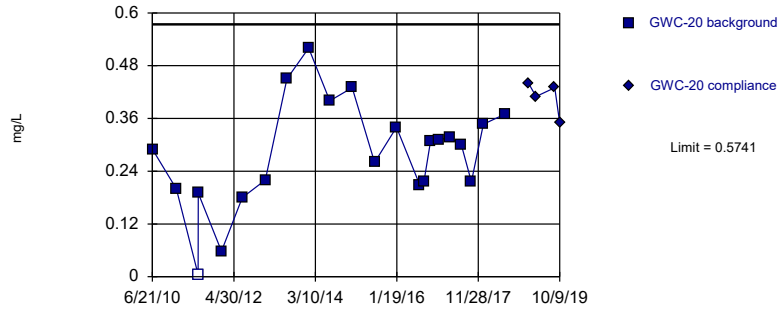


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 97.56% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Parametric

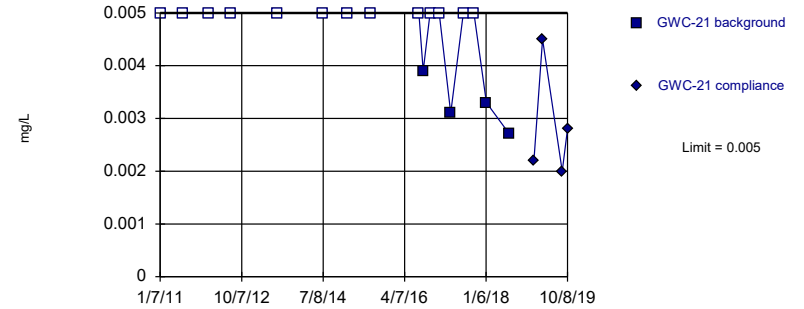


Background Data Summary: Mean=0.2788, Std. Dev.=0.1215, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2.431 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

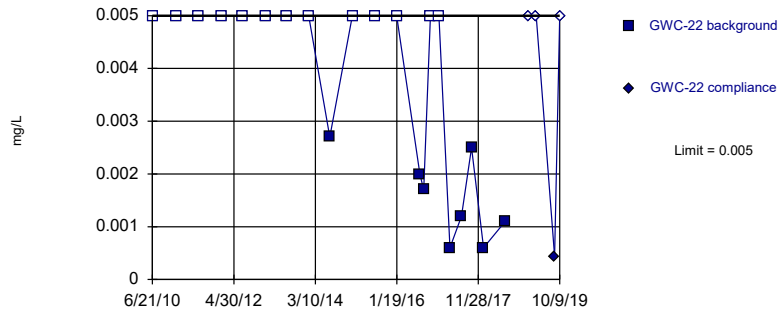


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

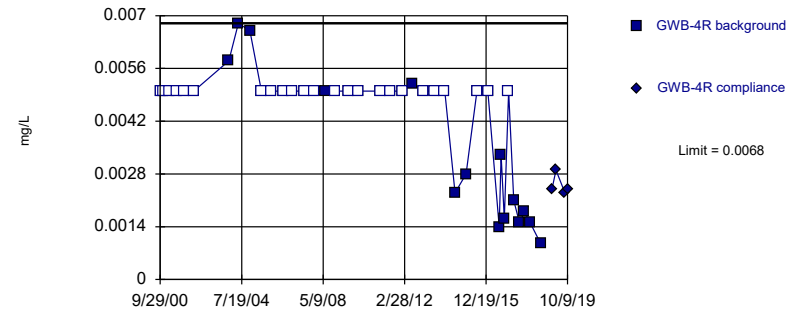


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 61.9% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic
Intrawell Non-parametric

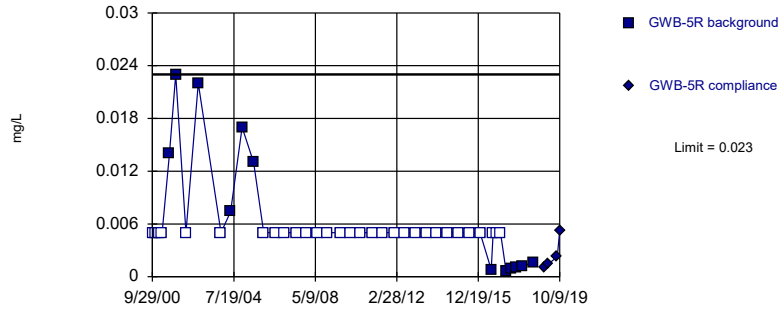


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic Intrawell Non-parametric

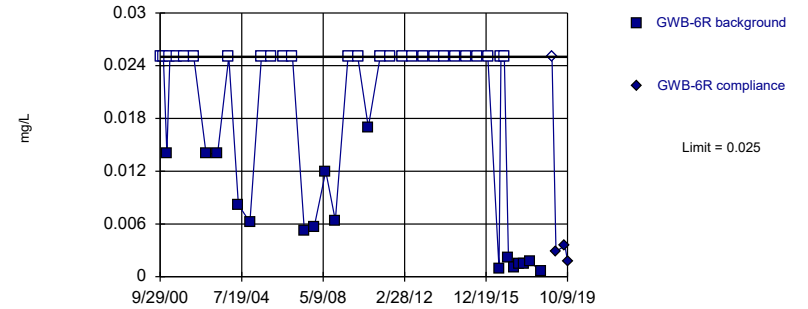


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Arsenic Intrawell Non-parametric

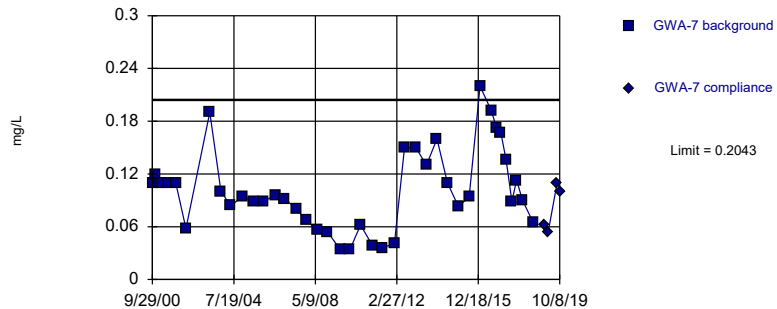


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 60.47% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

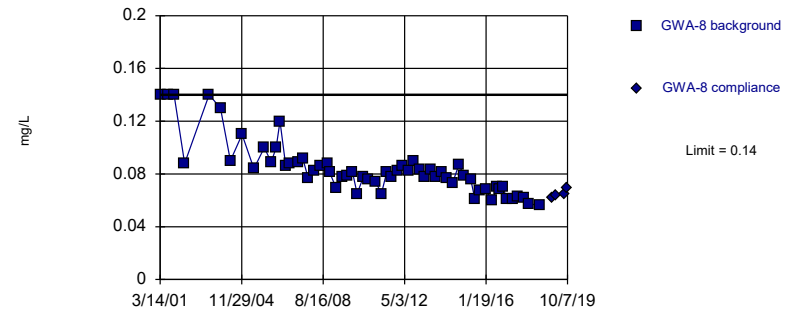


Background Data Summary: Mean=0.1021, Std. Dev.=0.04574, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.92. Kappa = 2.233 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Non-parametric

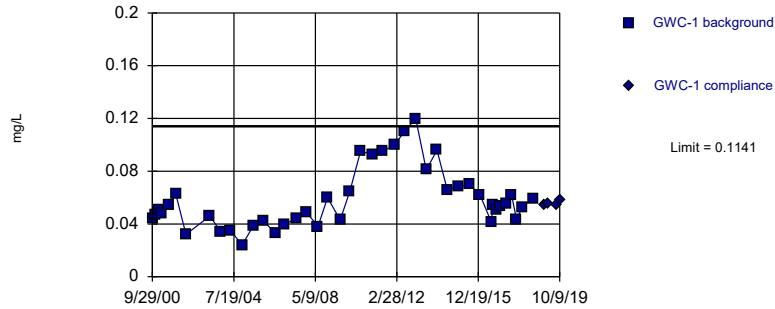


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Well-constituent pair annual alpha = 0.001056. Individual comparison alpha = 0.0005281 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intrawell Parametric

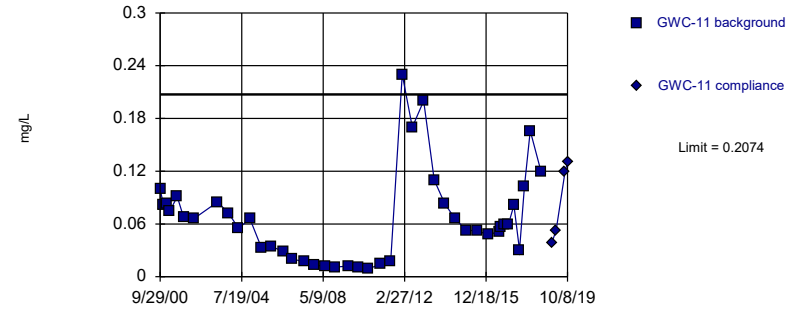


Background Data Summary (based on square root transformation): Mean=0.2379, Std. Dev.=0.04483, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intrawell Parametric

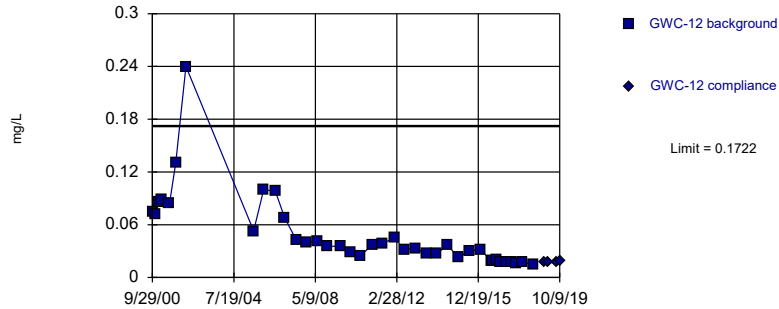


Background Data Summary (based on square root transformation): Mean=0.2407, Std. Dev.=0.09636, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intrawell Parametric

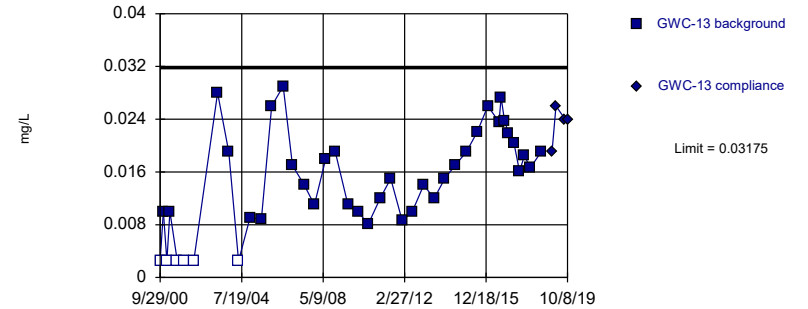


Background Data Summary (based on natural log transformation): Mean=-3.263, Std. Dev.=0.6683, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.916. Kappa = 2.25 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intrawell Parametric

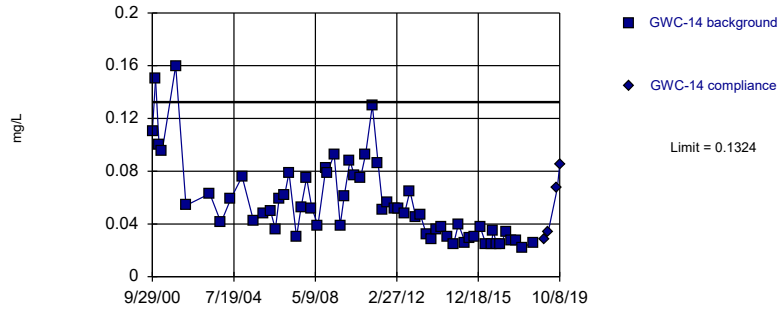


Background Data Summary: Mean=0.01478, Std. Dev.=0.00762, n=42, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

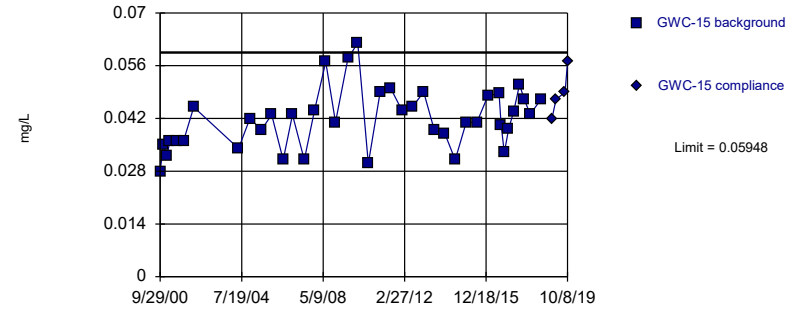


Background Data Summary (based on cube root transformation): Mean=0.3719, Std. Dev.=0.06371, n=62.
 Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9525, critical = 0.947. Kappa = 2.162 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:44 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

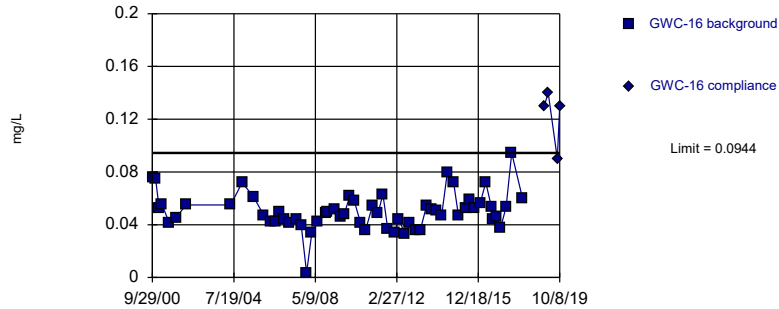


Background Data Summary: Mean=0.04178, Std. Dev.=0.00791, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.969, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Barium Intrawell Non-parametric

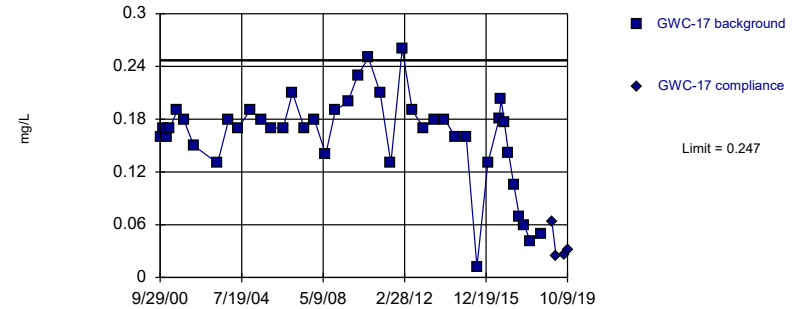


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 59 background values. Well-constituent pair annual alpha = 0.001101. Individual comparison alpha = 0.0005506 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

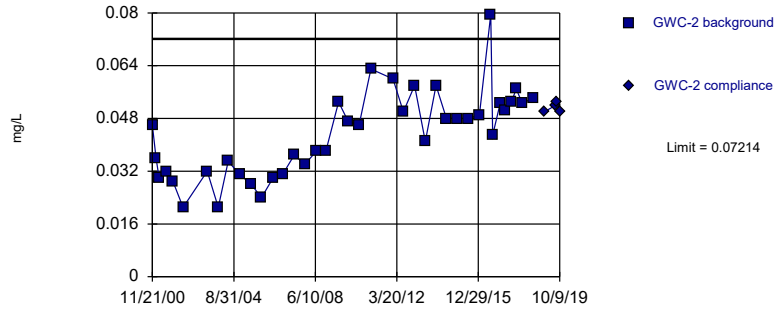


Background Data Summary (based on square transformation): Mean=0.02849, Std. Dev.=0.01459, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9442, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

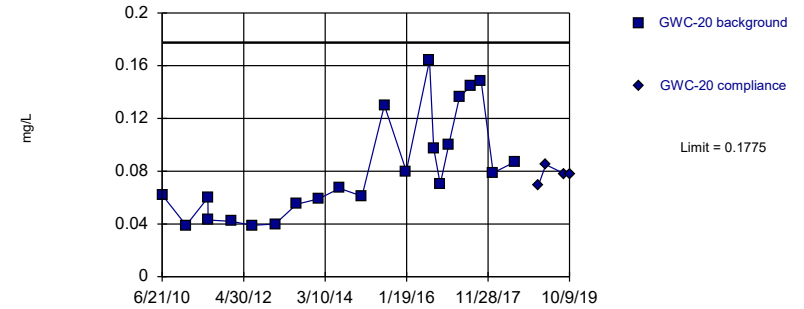


Background Data Summary: Mean=0.04318, Std. Dev.=0.0129, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9652, critical = 0.917. Kappa = 2.244 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

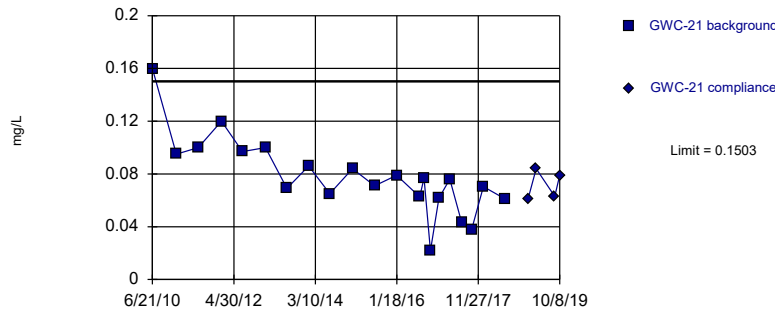


Background Data Summary: Mean=0.08198, Std. Dev.=0.03928, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8843, critical = 0.878. Kappa = 2.431 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

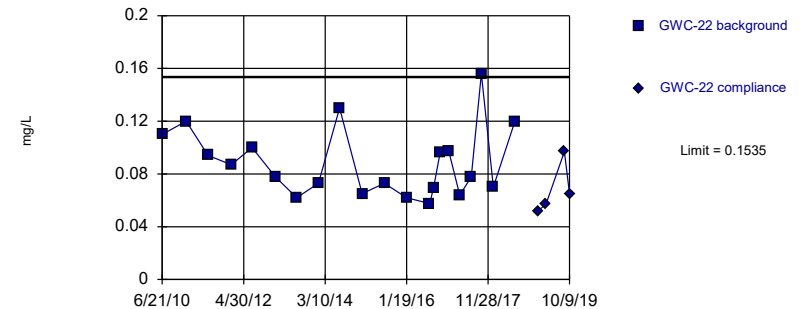


Background Data Summary: Mean=0.07795, Std. Dev.=0.0295, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium Intrawell Parametric

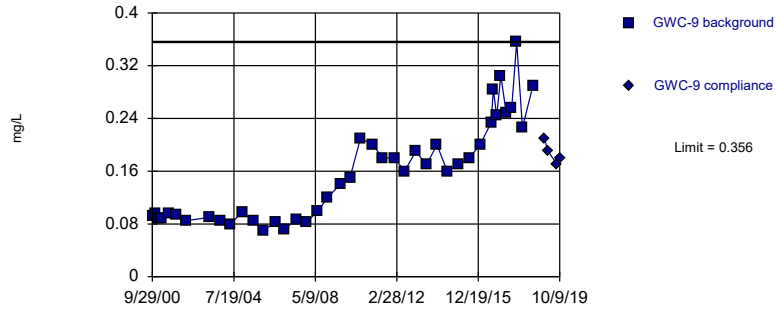


Background Data Summary: Mean=0.08871, Std. Dev.=0.02642, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9073, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intrawell Non-parametric

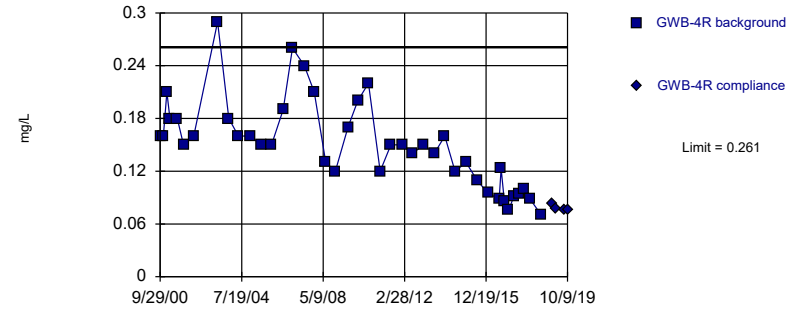


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intradwell Parametric

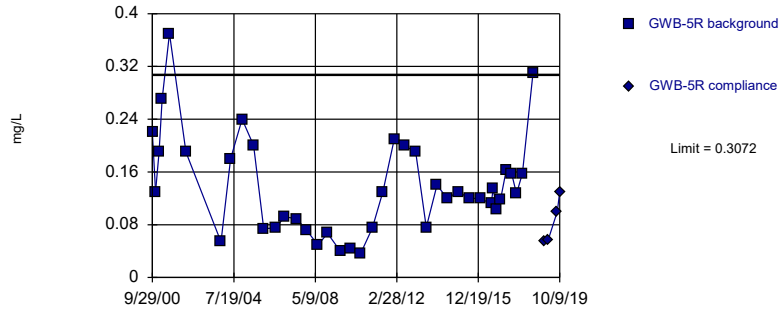


Background Data Summary: Mean=0.1503, Std. Dev.=0.04972, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intradwell Parametric

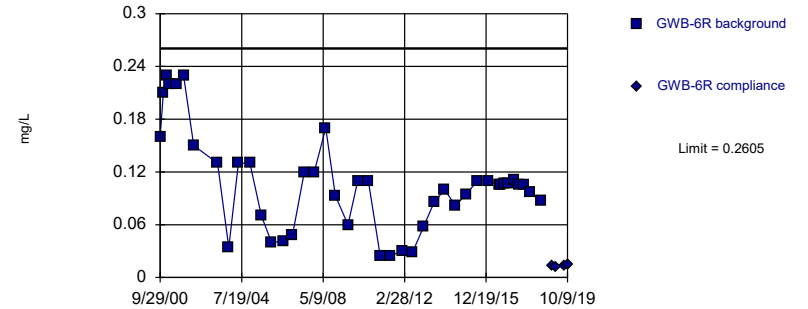


Background Data Summary: Mean=0.1394, Std. Dev.=0.07497, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.93, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Barium
Intradwell Parametric

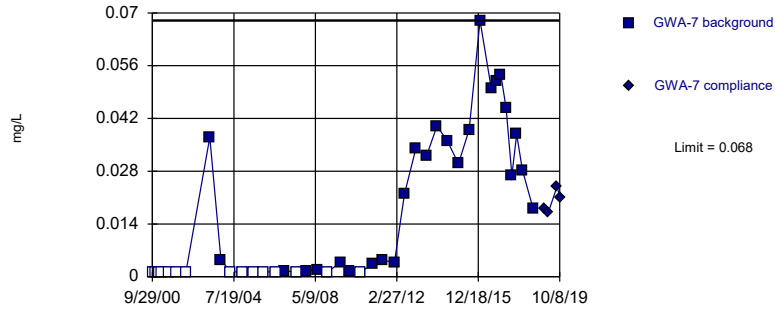


Background Data Summary (based on square root transformation): Mean=0.3159, Std. Dev.=0.0873, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

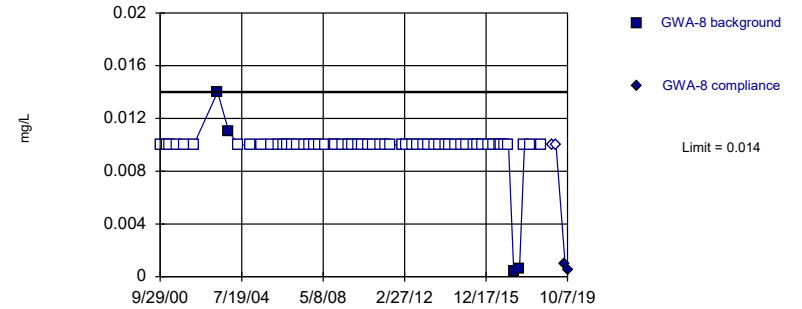


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 36.59% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

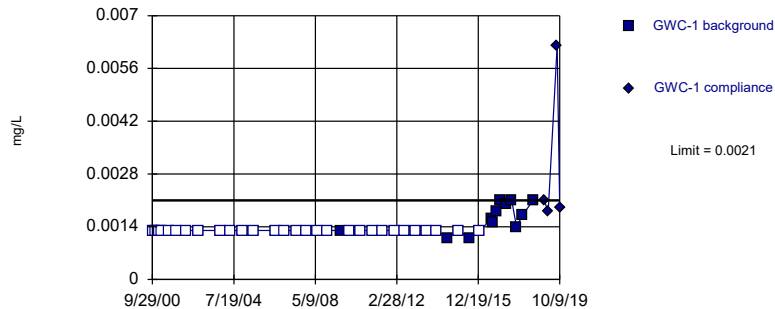


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 93.44% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

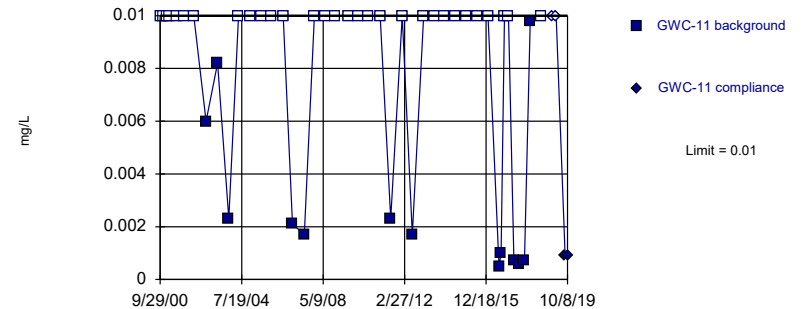


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 70.73% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

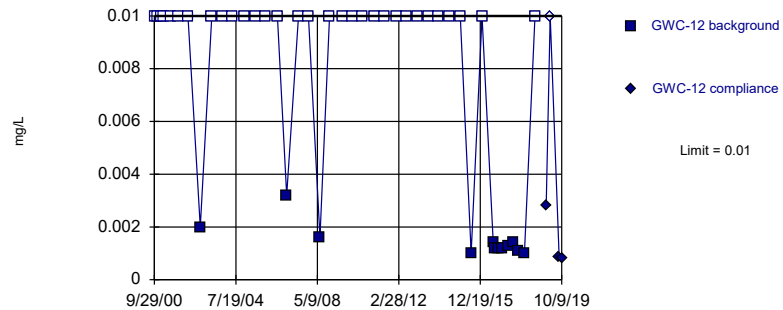


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 69.77% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:45 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

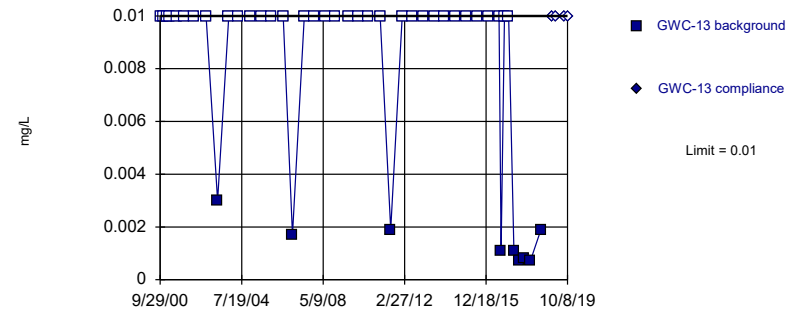


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 72.09% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

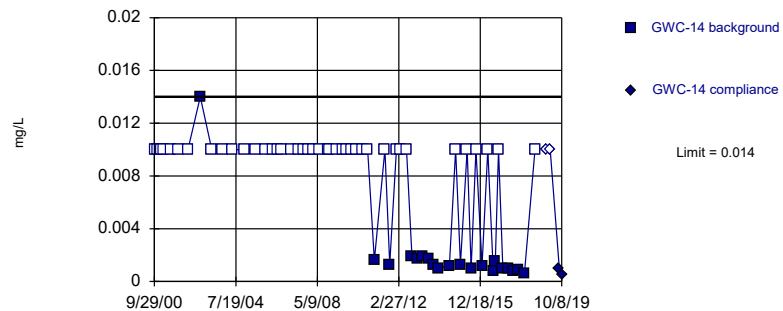


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 79.07% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

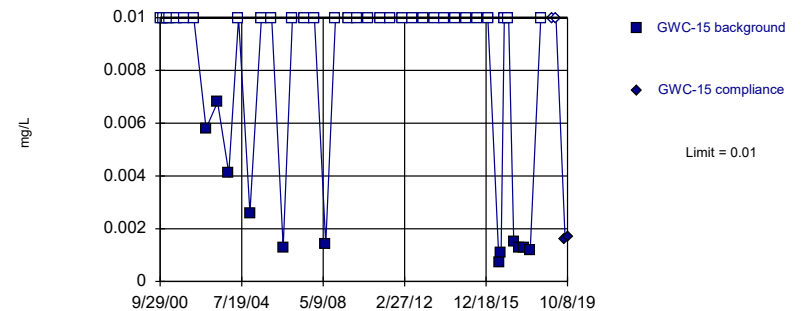


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 67.21% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

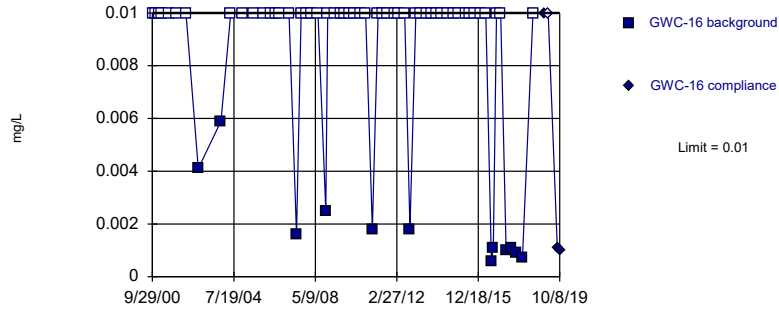


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 72.09% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

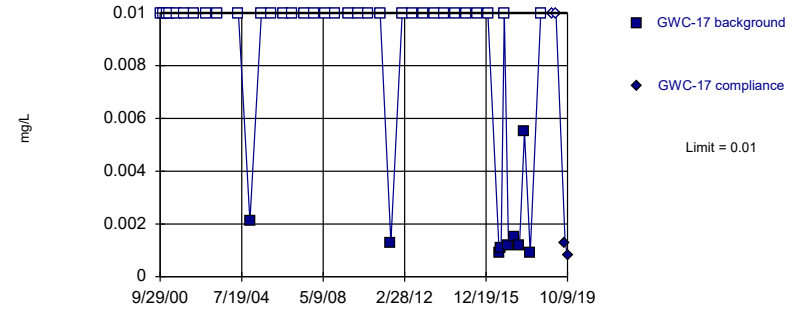


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 80.65% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

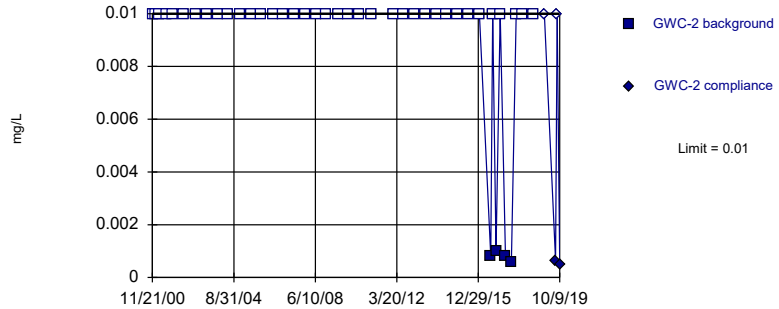


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

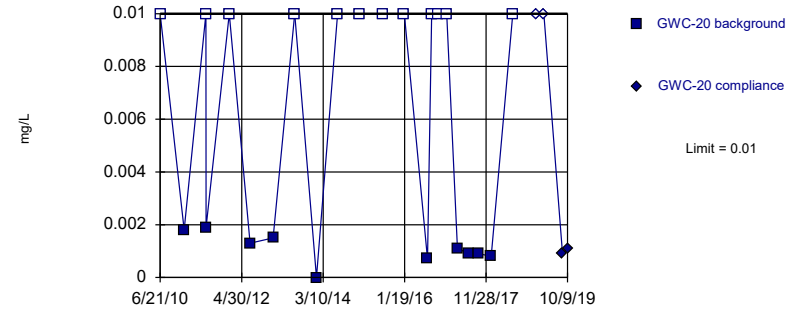


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium Intrawell Non-parametric

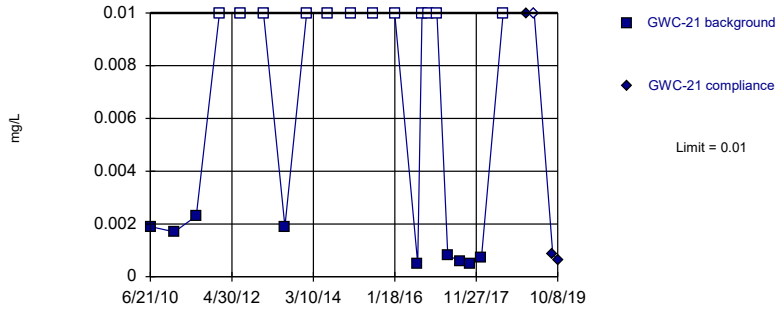


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Non-parametric

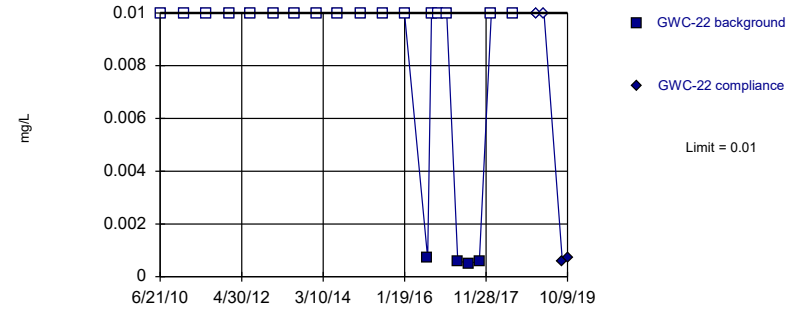


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Non-parametric

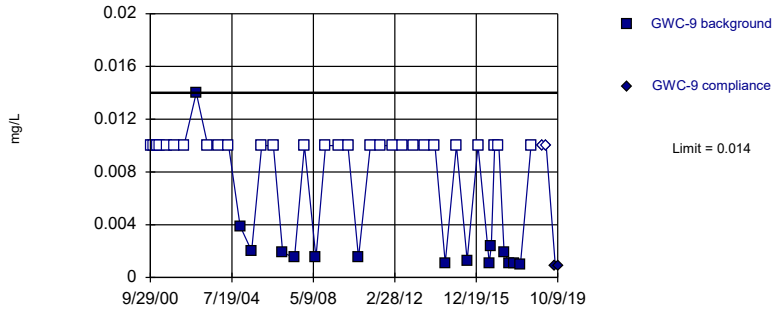


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Non-parametric

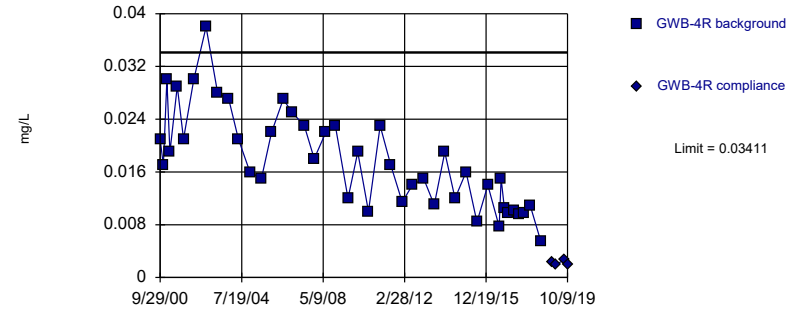


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 65.12% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Parametric

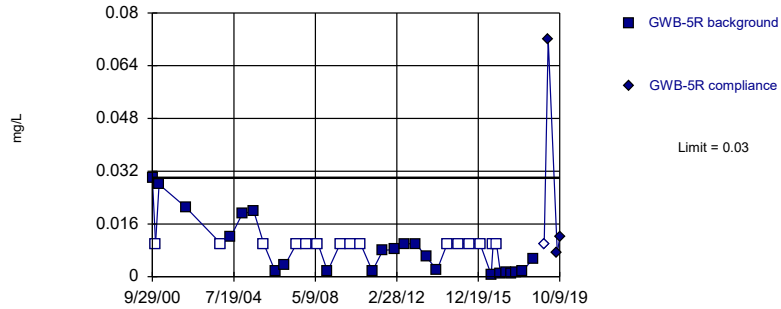


Background Data Summary: Mean=0.01774, Std. Dev.=0.007368, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9562, critical = 0.923. Kappa = 2.222 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Non-parametric

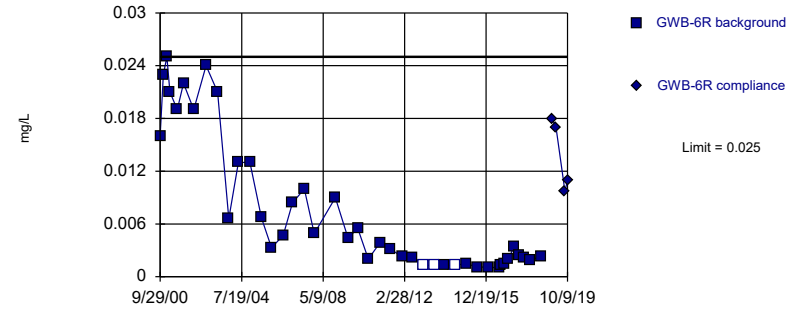


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 39.47% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Chromium
Intrawell Non-parametric

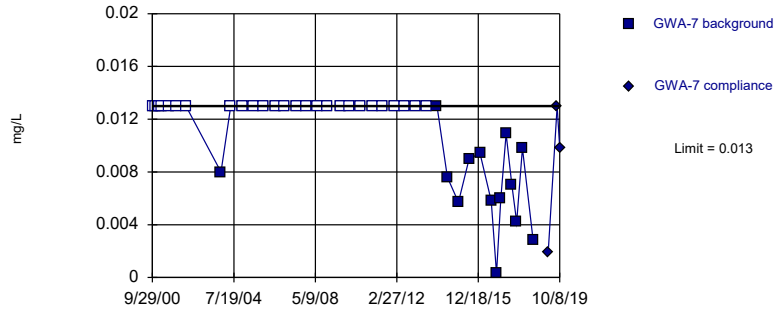


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 7.143% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

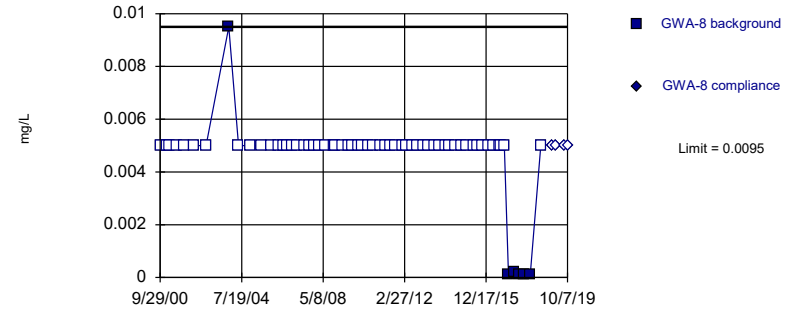


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

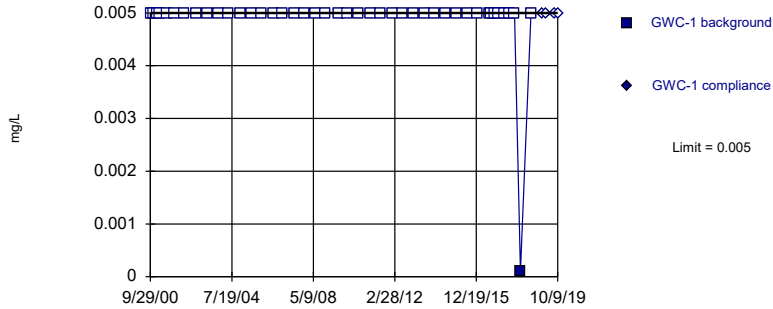


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:46 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

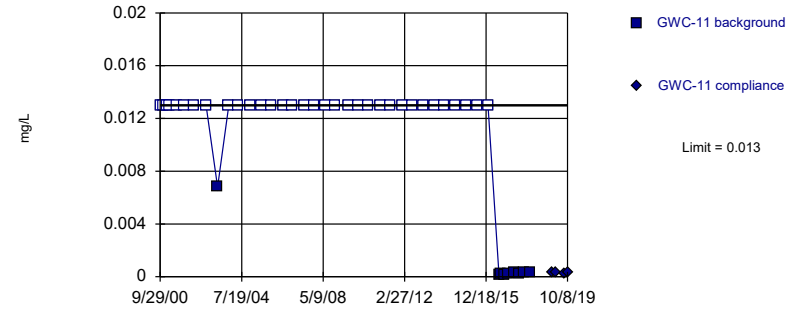


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

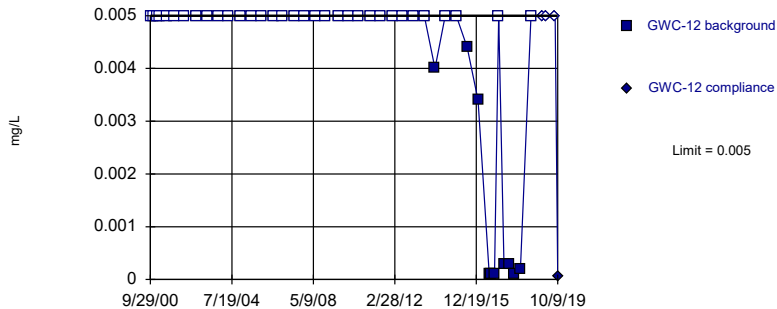


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

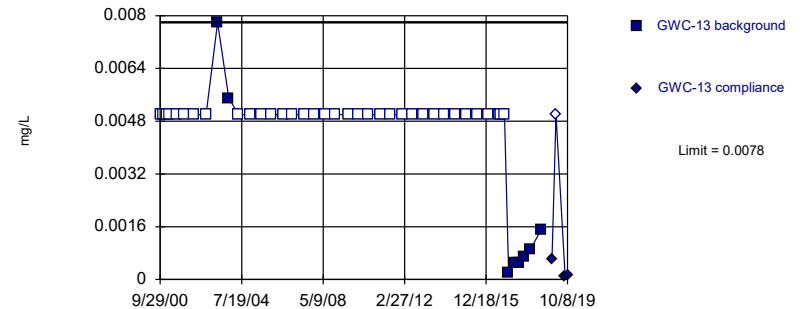


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 76.74% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

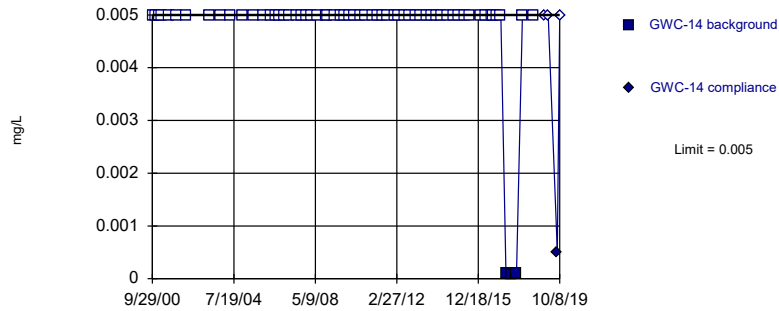


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 81.4% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

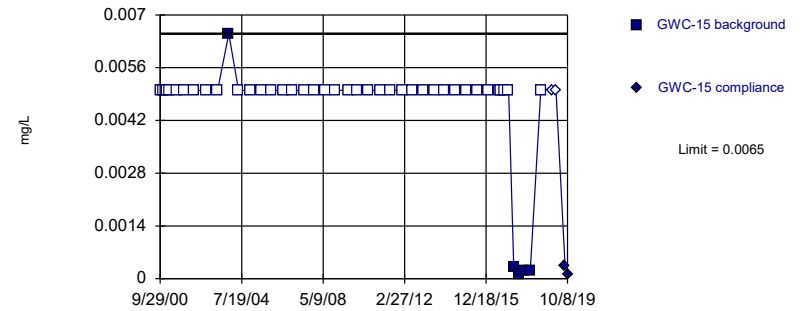


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 95.16% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

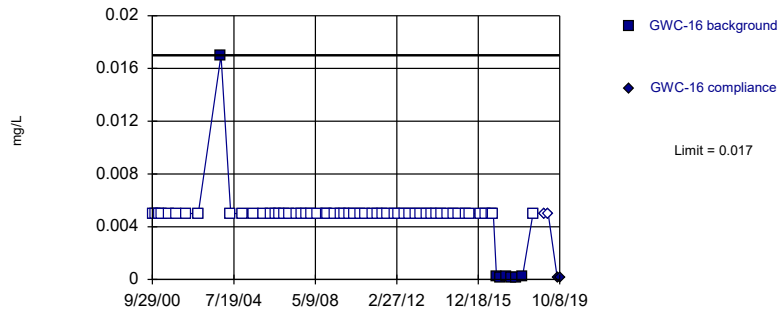


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 88.37% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

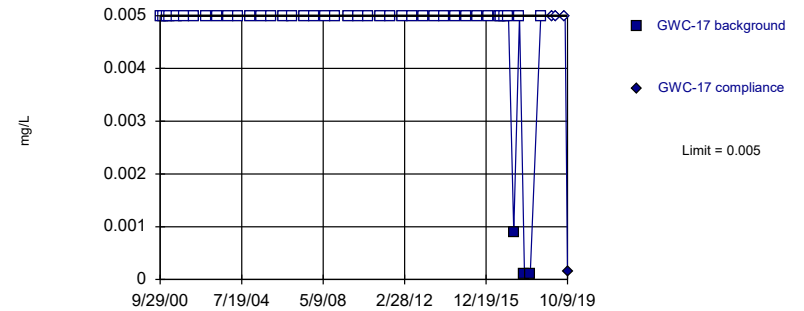


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 88.71% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead Intrawell Non-parametric

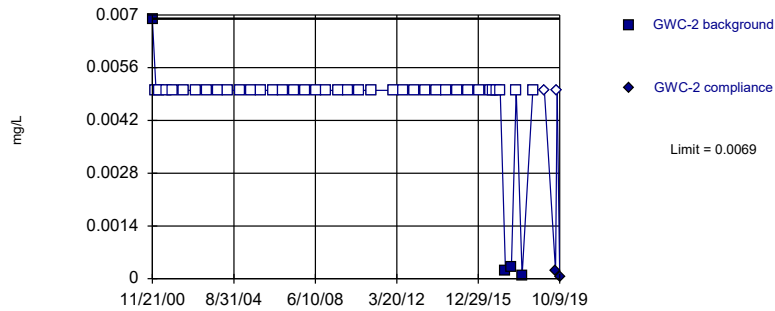


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

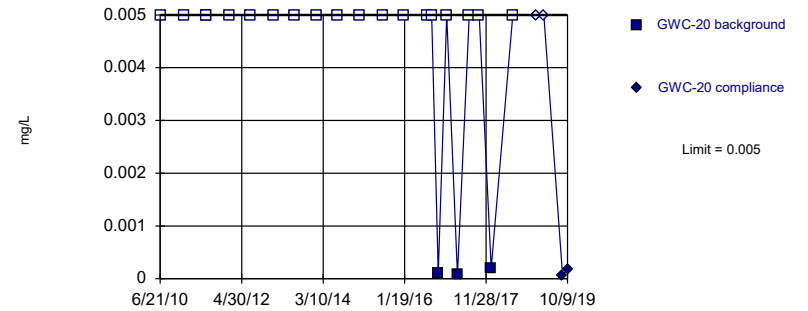


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

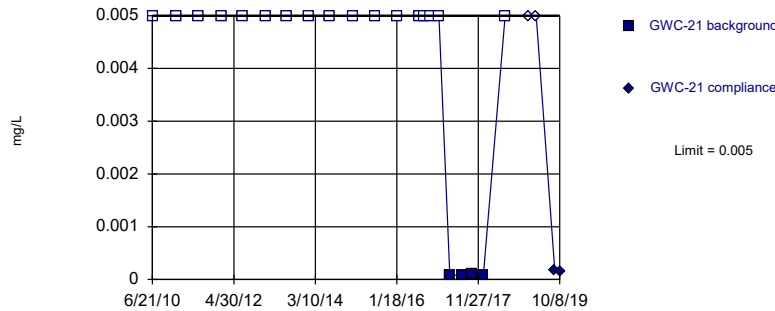


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

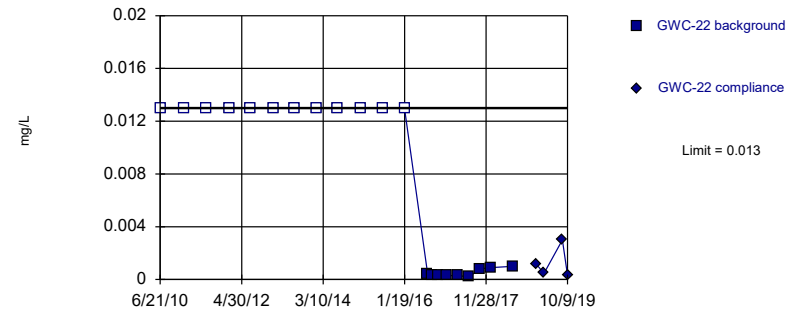


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

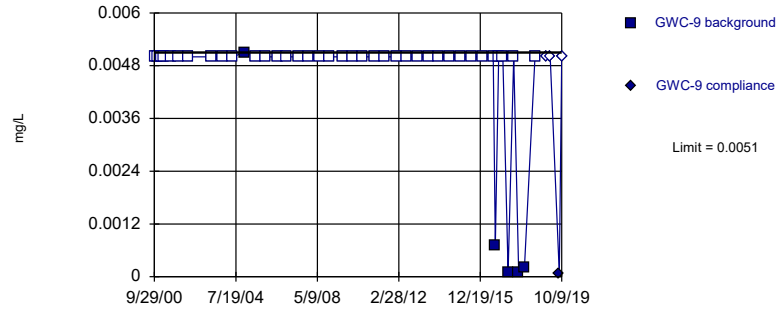


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

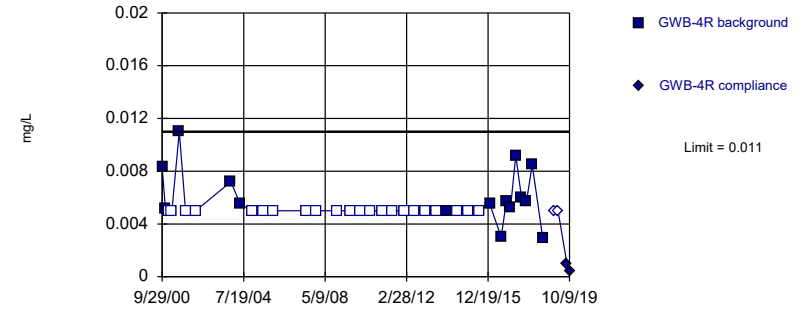


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 88.1% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

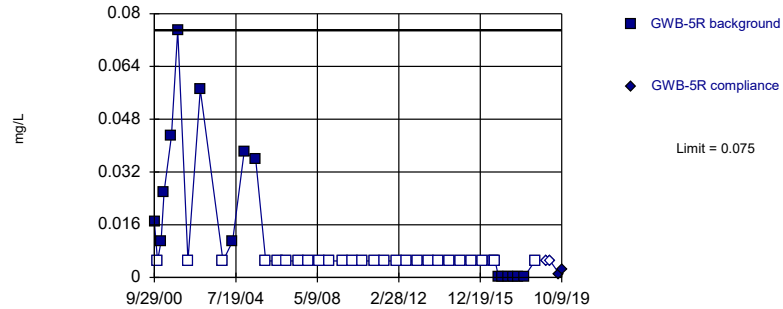


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 59.46% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

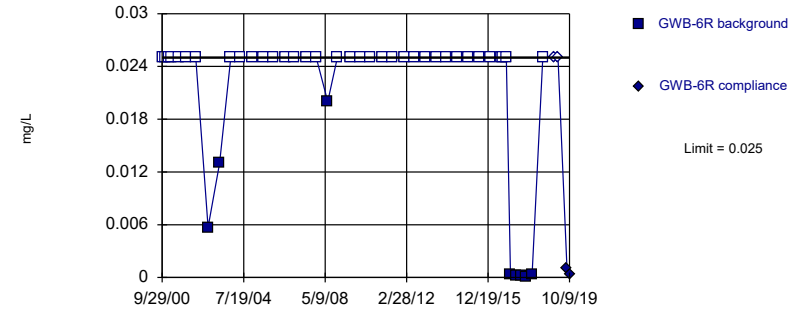


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Lead
Intrawell Non-parametric

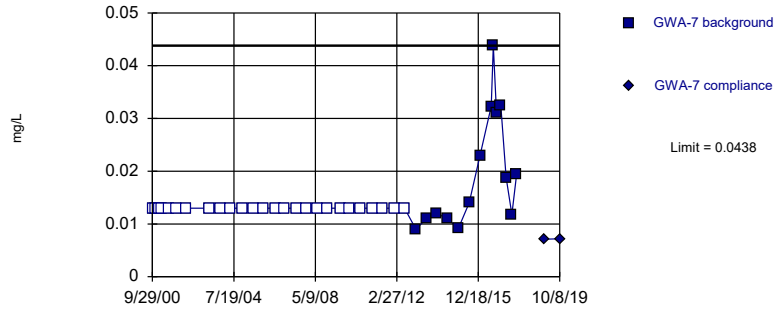


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 81.4% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:47 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium Intrawell Non-parametric

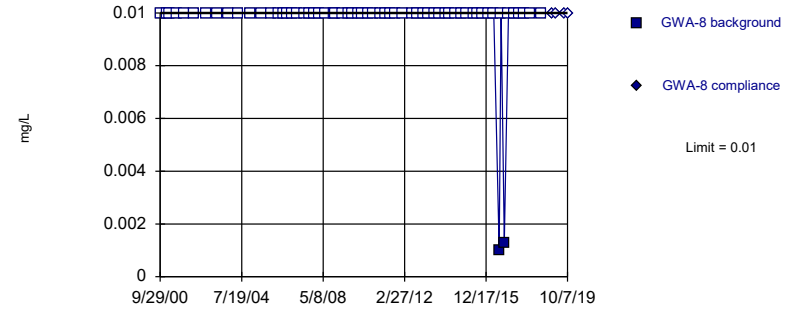


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium Intrawell Non-parametric

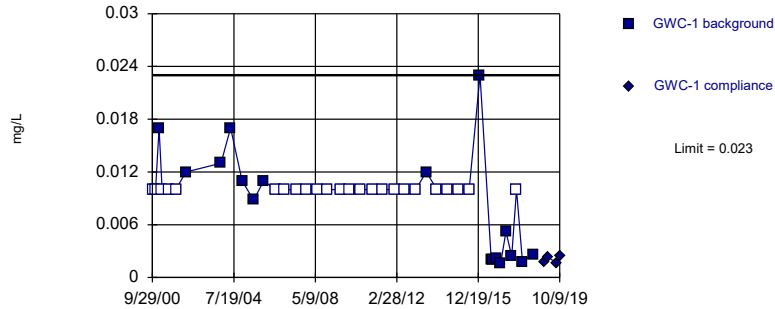


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium Intrawell Non-parametric

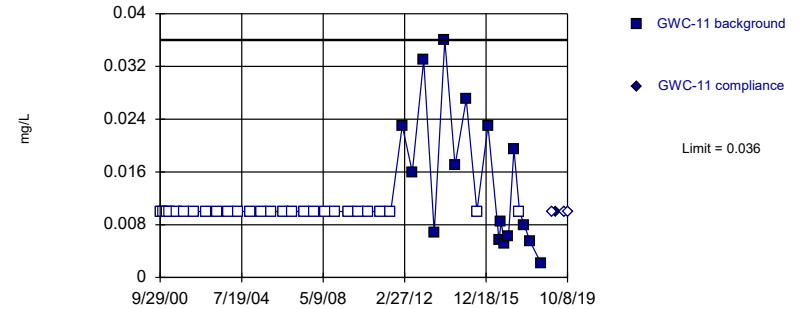


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 58.54% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium Intrawell Non-parametric

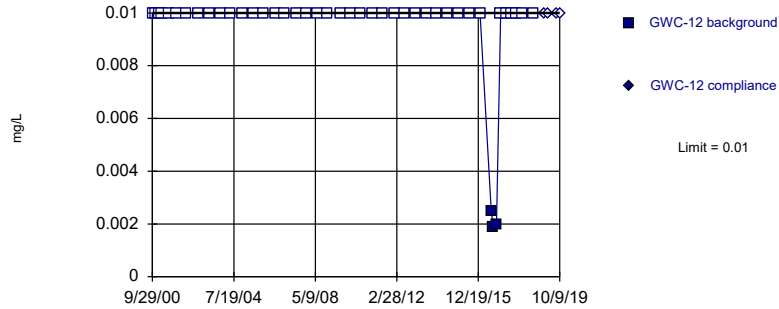


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 62.79% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

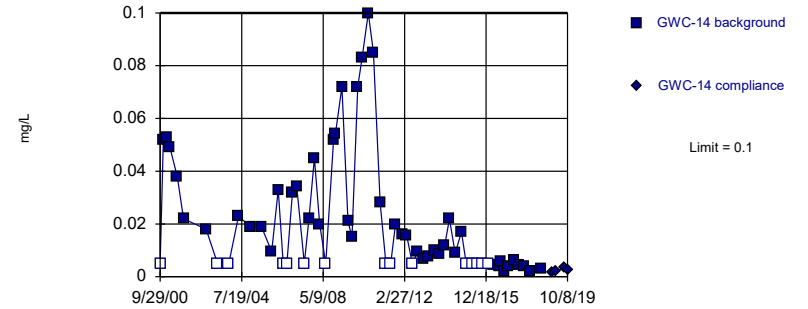


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

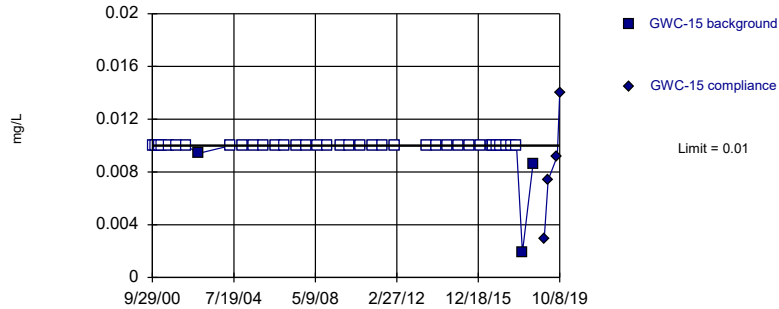


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 63 background values. 23.81% NDs. Well-constituent pair annual alpha = 0.0009737. Individual comparison alpha = 0.000487 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Selenium
Intrawell Non-parametric

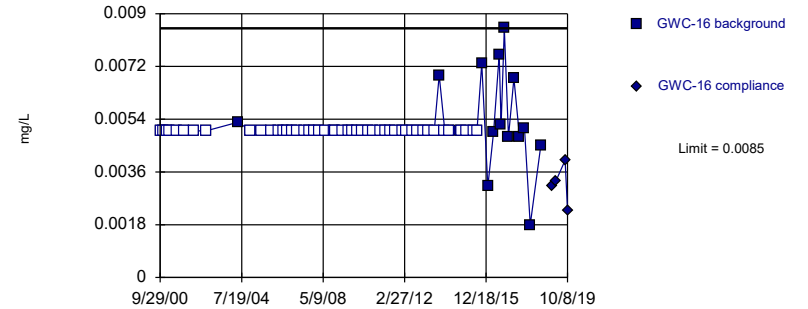


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

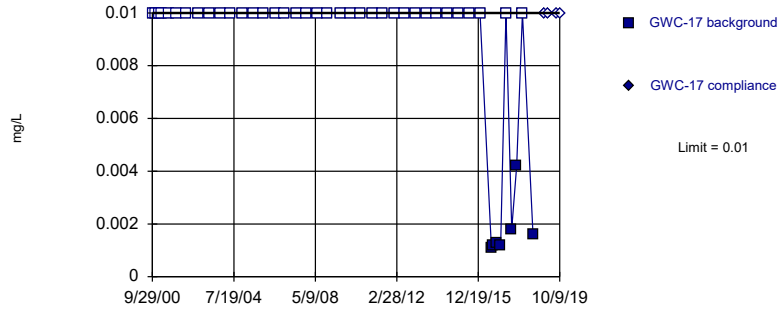


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 75.81% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

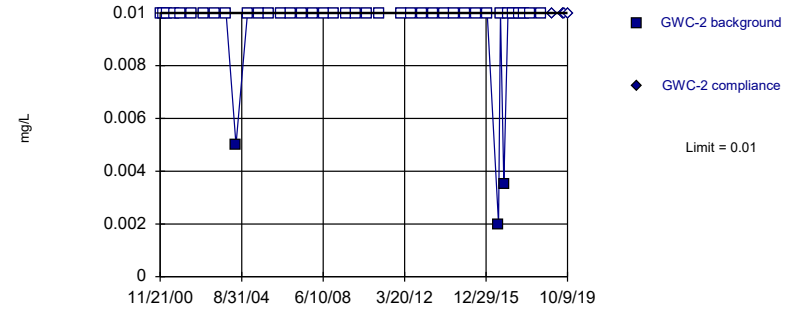


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 83.72% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

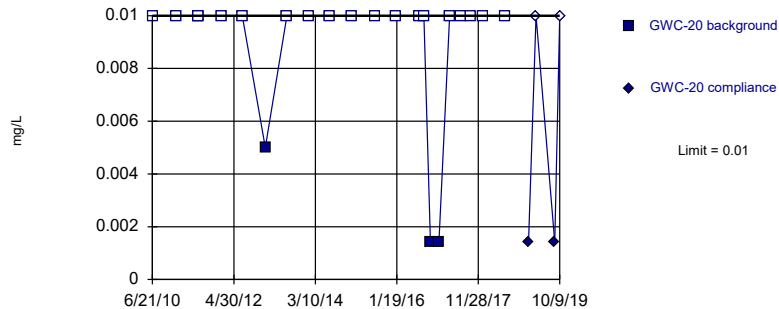


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 92.68% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

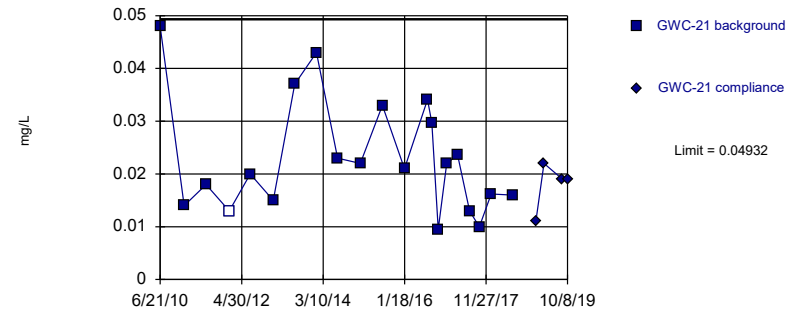


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Parametric

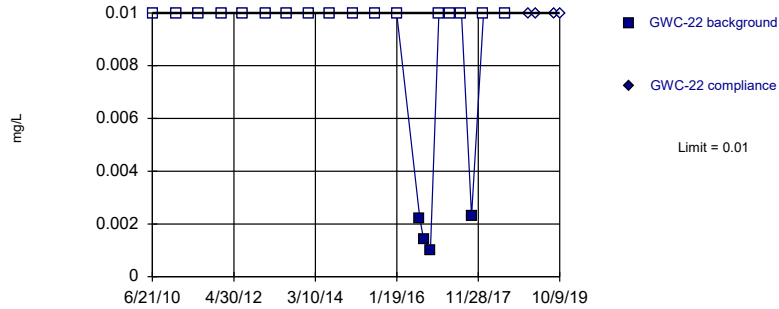


Background Data Summary: Mean=0.02291, Std. Dev.=0.01077, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

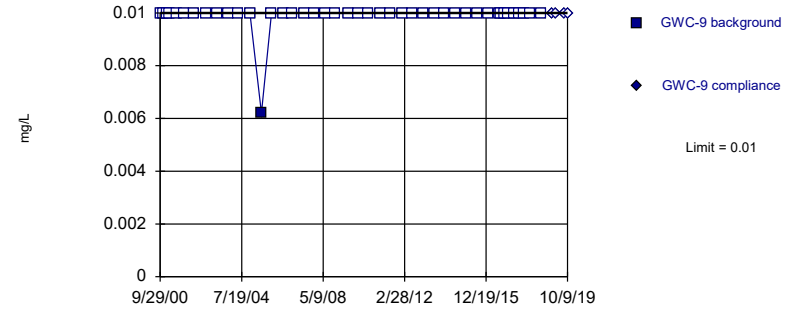


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

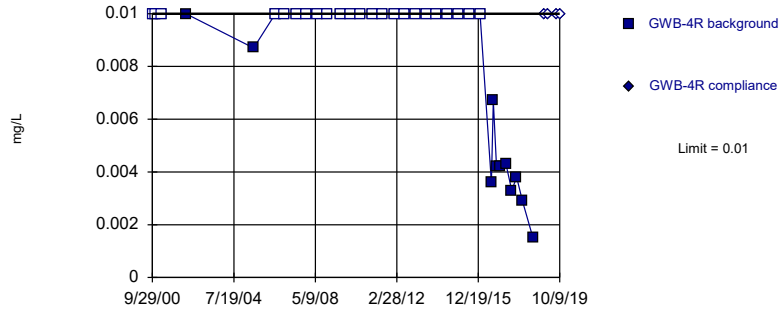


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

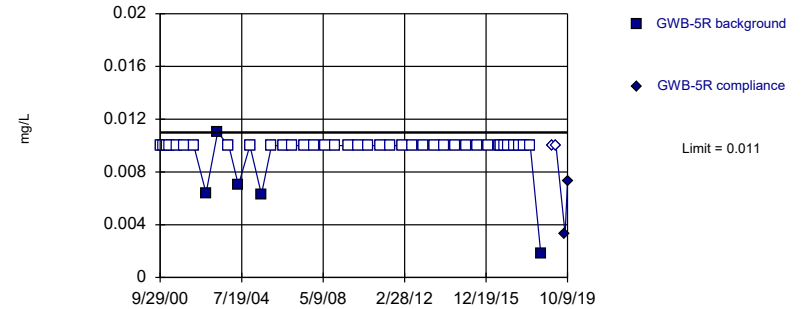


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 34 background values. 67.65% NDs. Well-constituent pair annual alpha = 0.003195. Individual comparison alpha = 0.001599 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium
Intrawell Non-parametric

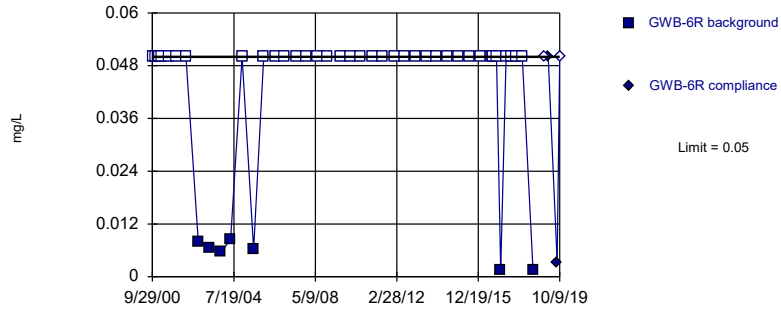


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 88.37% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Selenium Intrawell Non-parametric

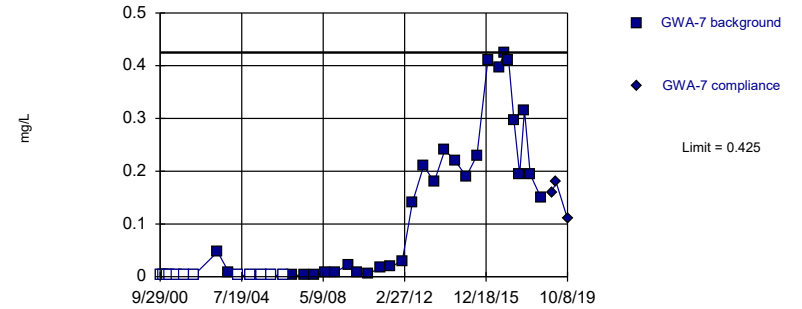


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 83.72% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:48 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

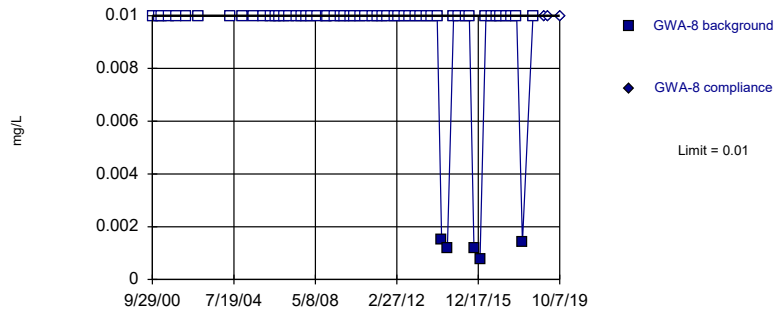


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 29.27% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

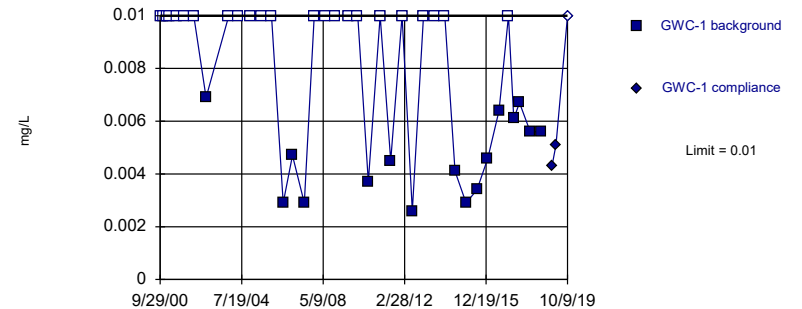


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 60 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.001056. Individual comparison alpha = 0.0005281 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

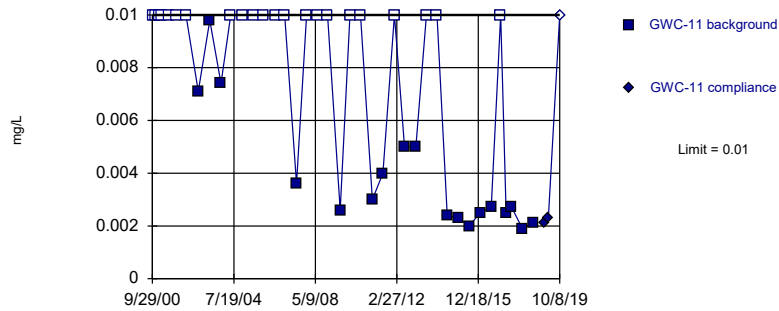


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 58.97% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

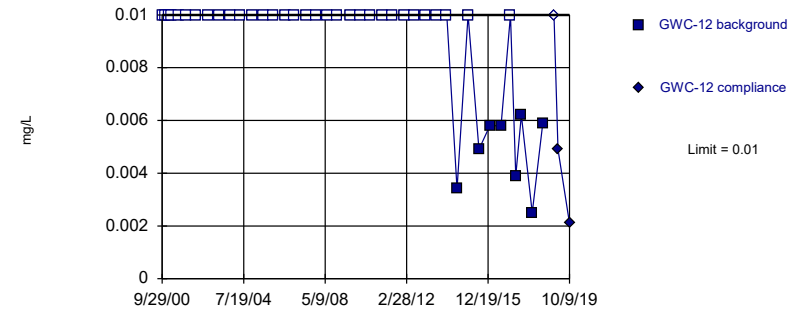


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

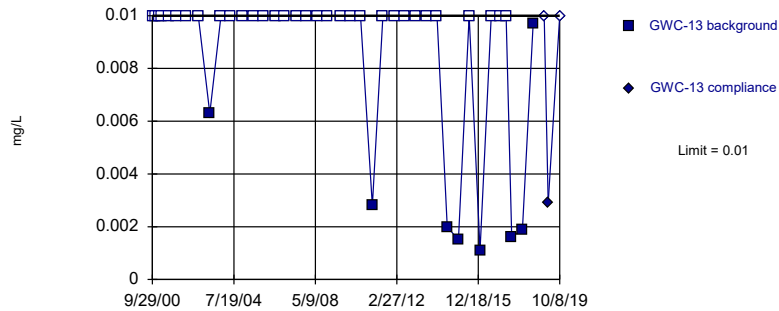


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

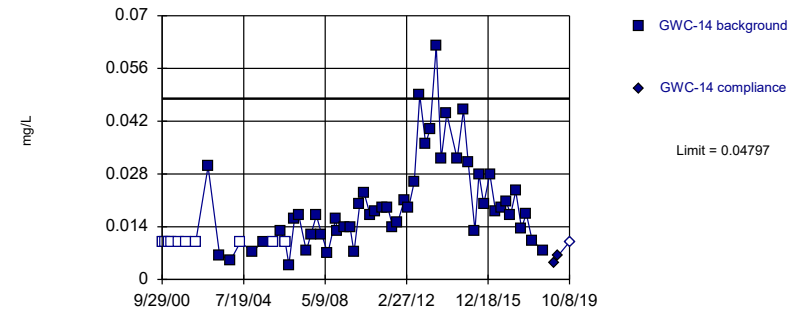


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Parametric

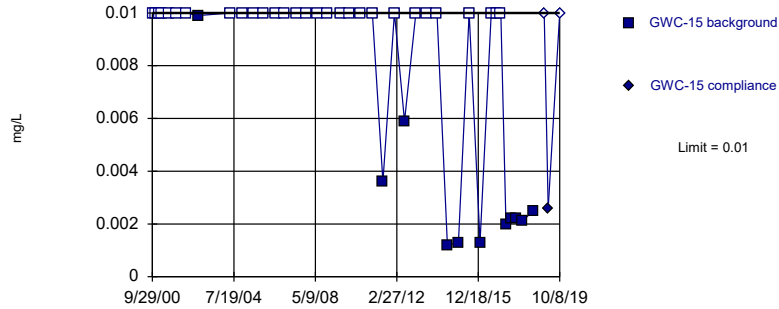


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.2392, Std. Dev.=0.05743, n=62, 16.13% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9619, critical = 0.947. Kappa = 2.162 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

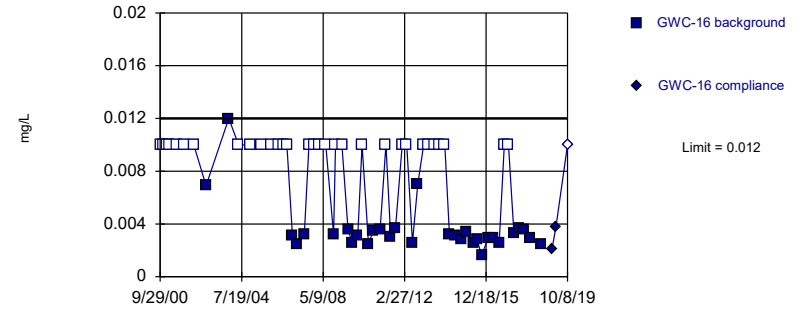


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

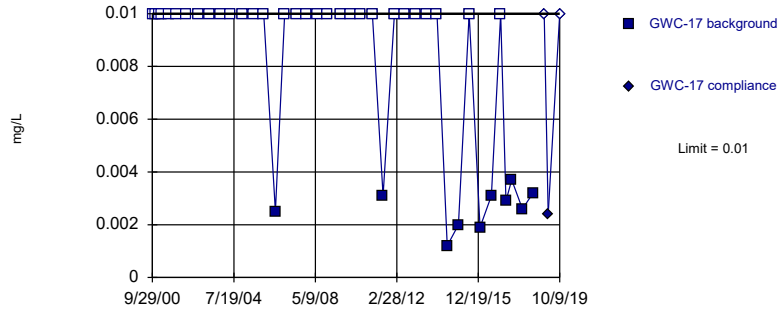


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. 50% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

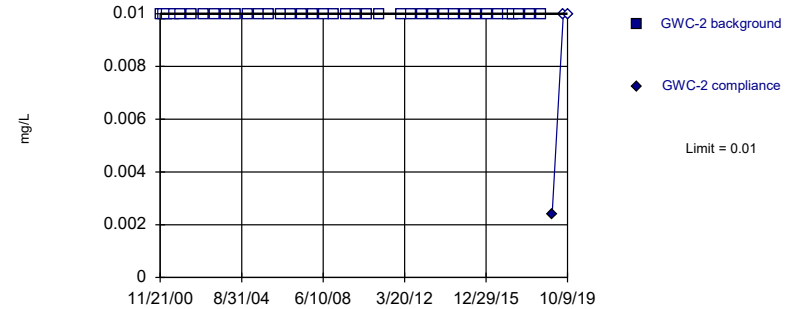


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium Intrawell Non-parametric

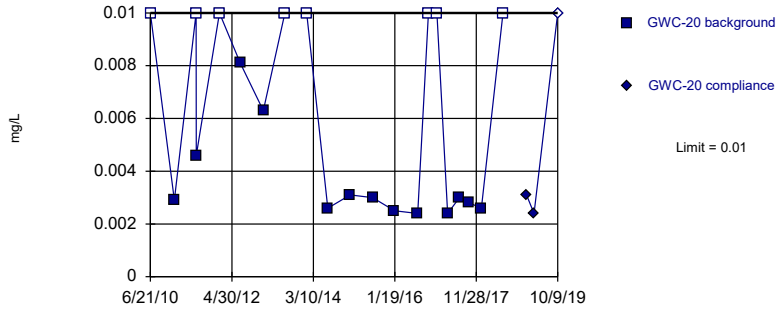


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 38 background values. 100% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

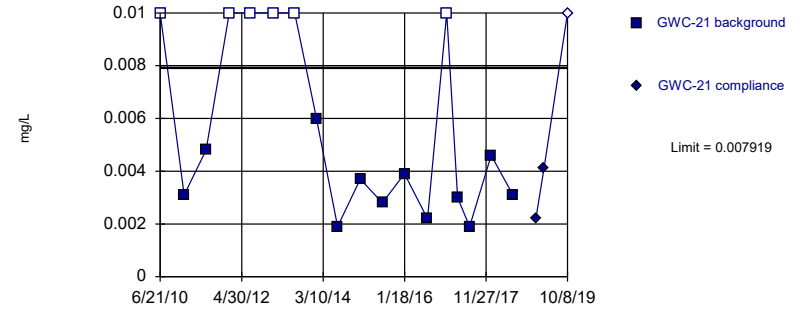


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 38.1% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Parametric

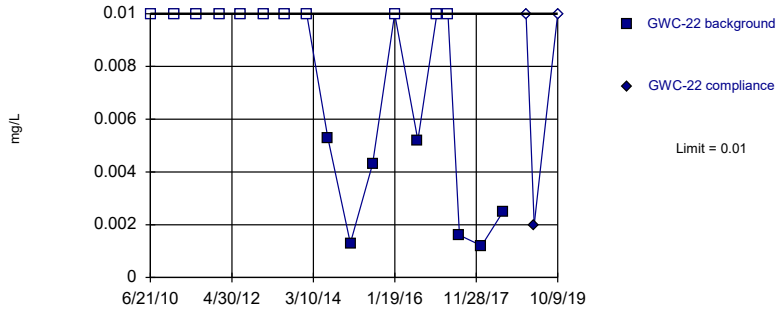


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.764, Std. Dev.=0.3646, n=18, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8708, critical = 0.858. Kappa = 2.538 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

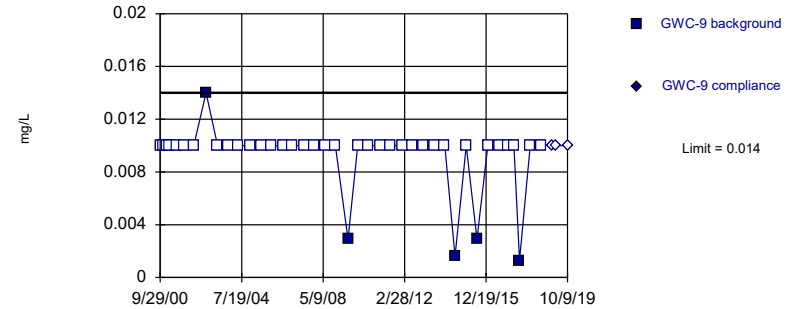


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

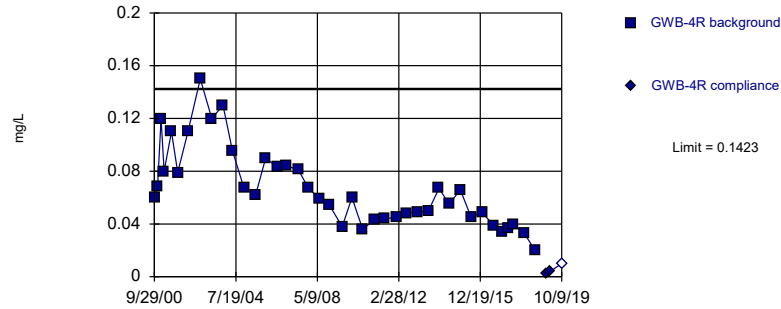


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Parametric

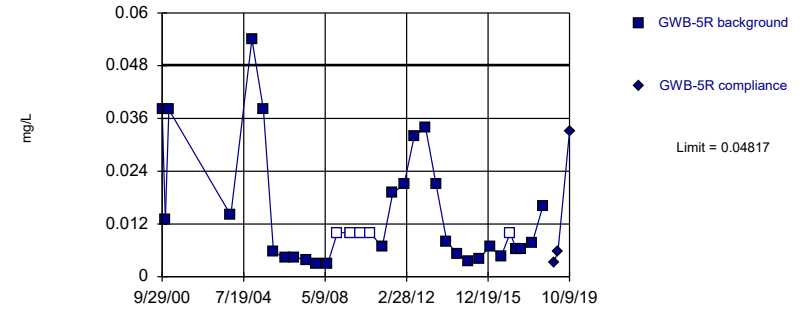


Background Data Summary (based on square root transformation): Mean=0.2522, Std. Dev.=0.05587, n=40.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:49 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Parametric

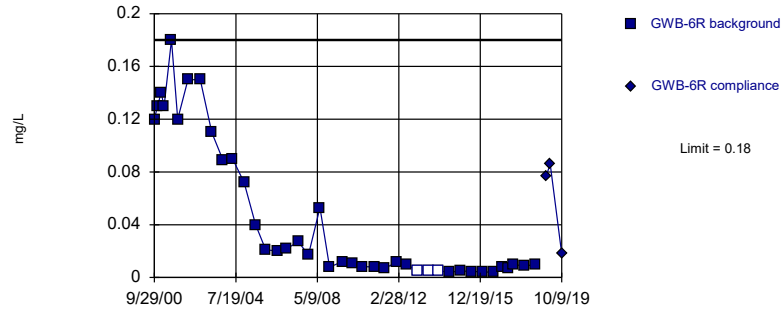


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=4.848, Std. Dev.=0.7947, n=33, 15.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.906. Kappa = 2.284 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Vanadium
Intrawell Non-parametric

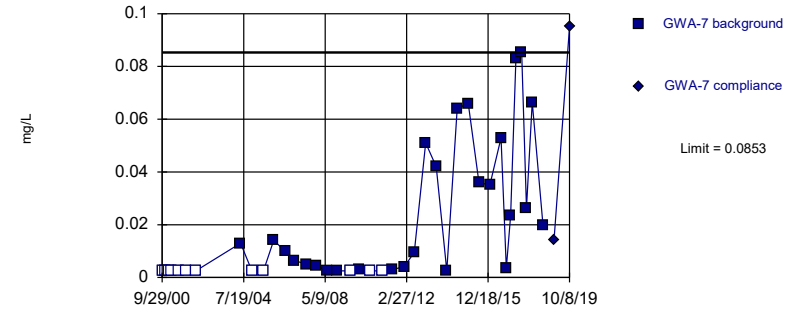


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 7.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Zinc
Intrawell Non-parametric

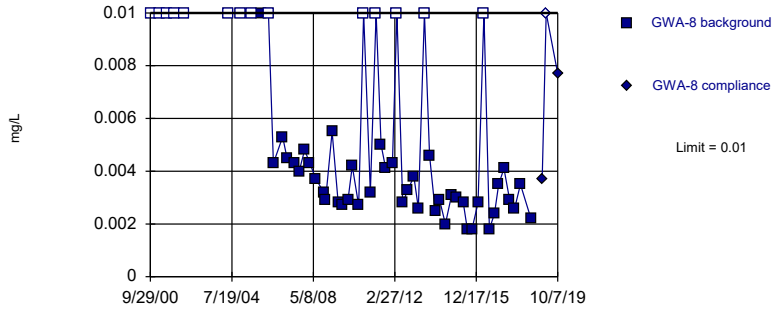


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 30.77% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

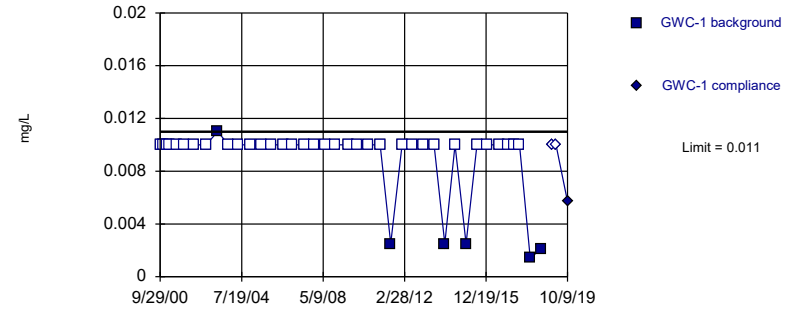


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 57 background values. 24.56% NDs. Well-constituent pair annual alpha = 0.001191. Individual comparison alpha = 0.0005955 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

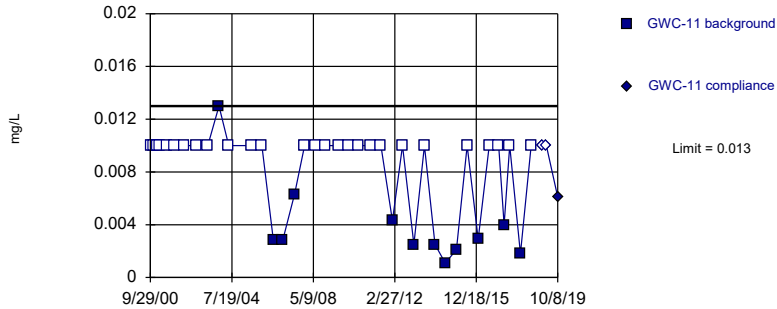


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

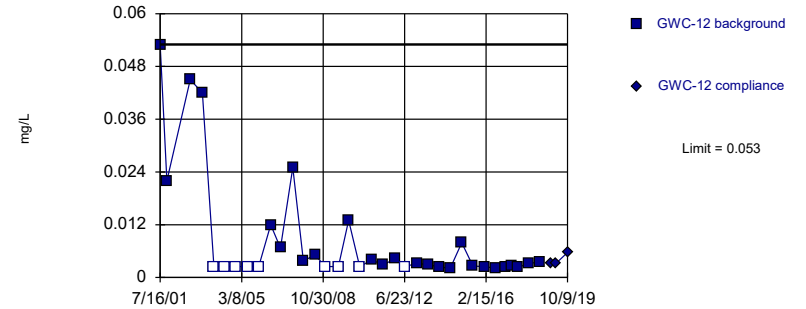


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

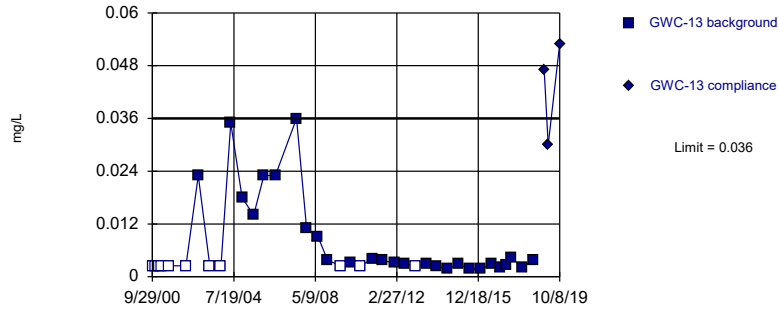


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 35 background values. 25.71% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Zinc Intrawell Non-parametric

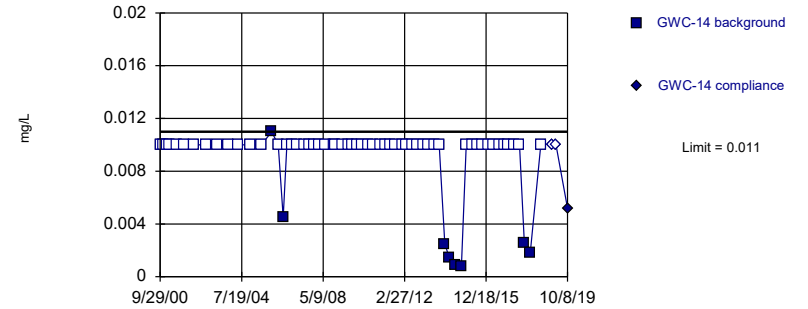


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 28.95% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric

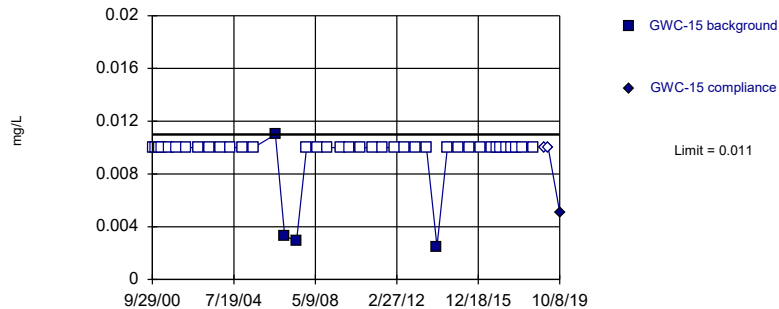


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 87.3% NDs. Well-constituent pair annual alpha = 0.0009737. Individual comparison alpha = 0.000487 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric

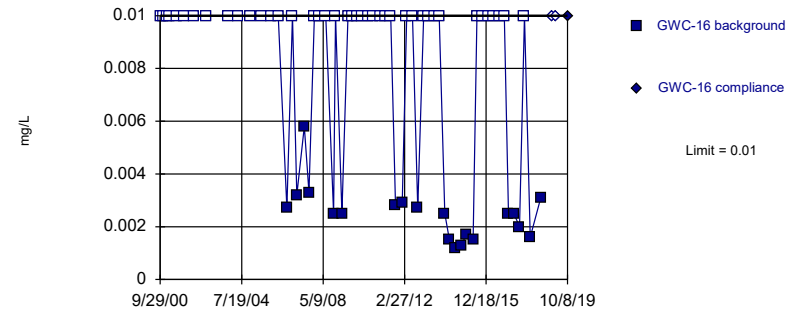


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric

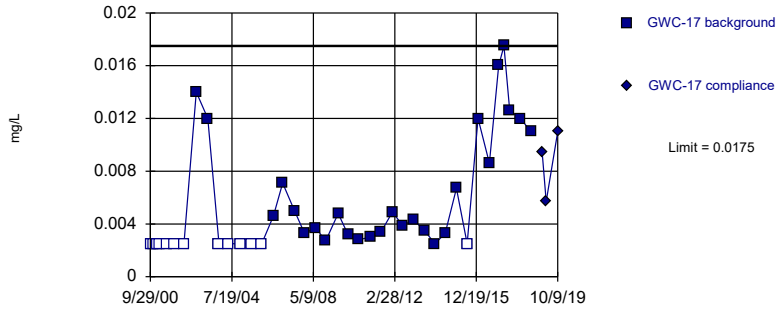


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 67.21% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

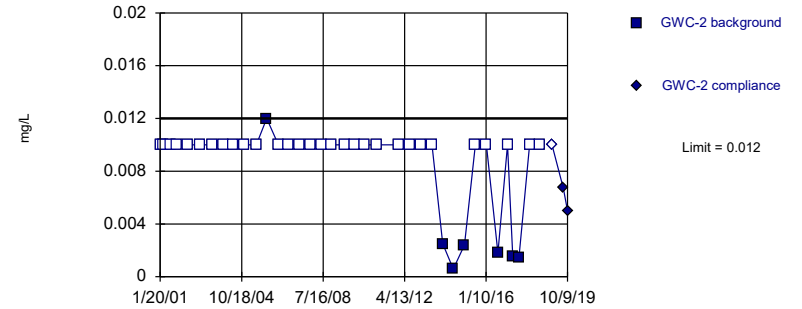


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

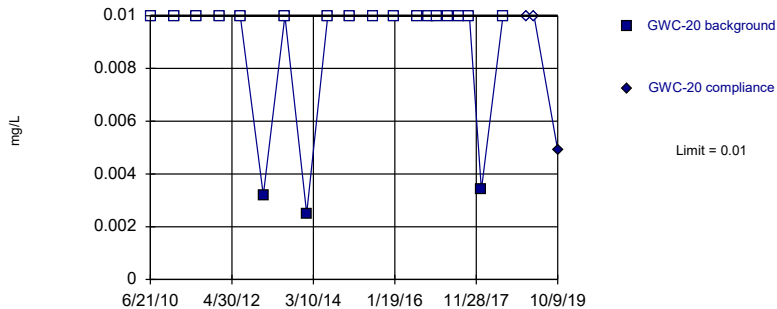


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 81.08% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

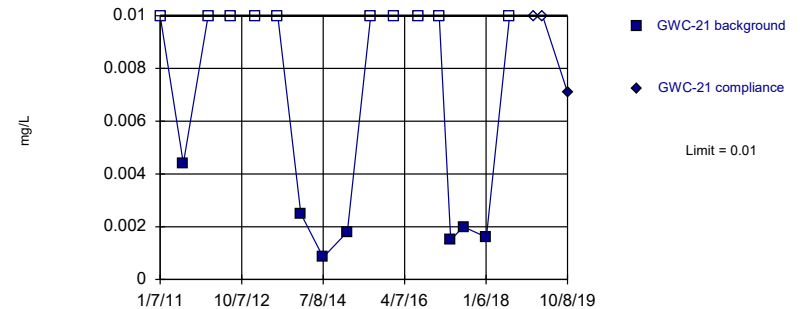


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc
Intrawell Non-parametric

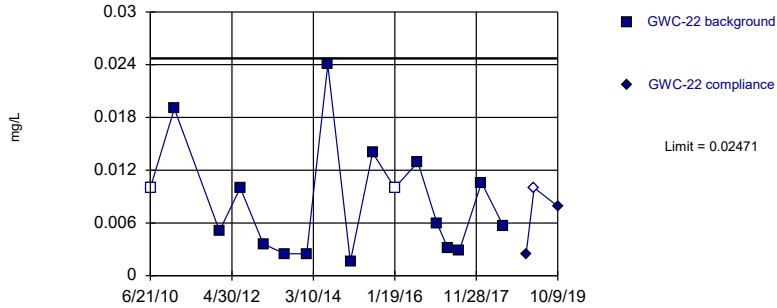


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Parametric

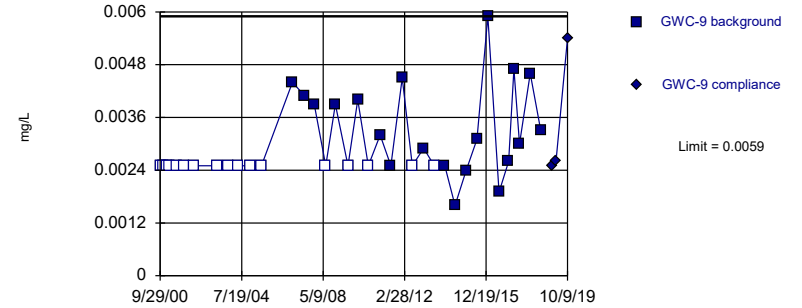


Background Data Summary: Mean=0.008441, Std. Dev.=0.00633, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8837, critical = 0.851. Kappa = 2.571 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:50 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric

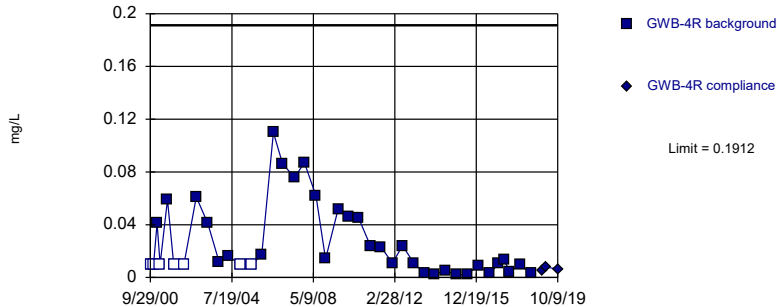


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 45.95% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:51 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Parametric

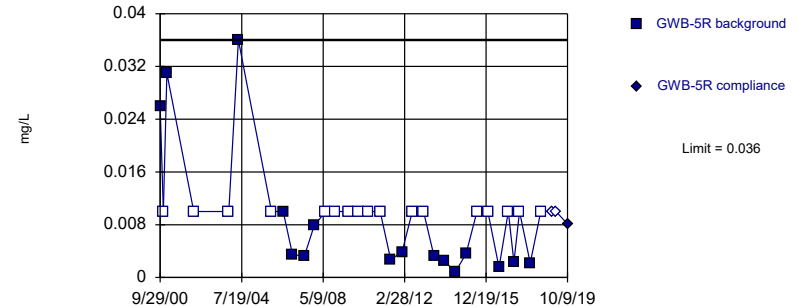


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-4.471, Std. Dev.=1.259, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Prediction Limit Analysis Run 2/17/2020 3:51 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric

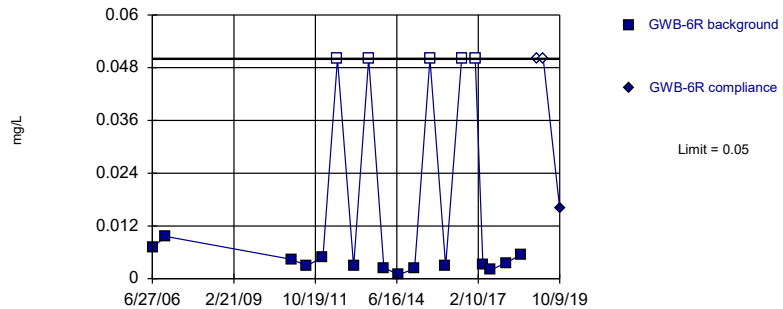


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 51.52% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:51 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Zinc Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 19 background values. 26.32% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Prediction Limit Analysis Run 2/17/2020 3:51 PM View: Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Antimony Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWC-11	GWC-11	GWC-13	GWC-13	GWC-14	GWC-14
9/29/2000	<0.015		<0.003		<0.003		<0.003	
11/21/2000	<0.015		<0.003		<0.003		<0.003	
1/20/2001	<0.015		<0.003		<0.003		<0.003	
3/14/2001	<0.015		<0.003		<0.003		<0.003	
7/16/2001	<0.015		<0.003		<0.003		<0.003	
11/1/2001	<0.015		<0.003		<0.003		<0.003	
4/25/2002	<0.015		<0.003		<0.003		<0.003	
11/20/2002			<0.003		<0.003		<0.003	
6/6/2003	<0.015		<0.003		<0.003		<0.003	
12/12/2003	<0.015		<0.003		<0.003		<0.003	
5/26/2004	<0.015		<0.003		<0.003		<0.003	
12/7/2004	<0.015		<0.003		<0.003		<0.003	
6/21/2005	<0.015		<0.003		<0.003		<0.003	
12/12/2005	<0.015		<0.003		<0.003		<0.003	
4/4/2006							<0.003	
6/27/2006	<0.015		<0.003		<0.003		<0.003	
8/30/2006							<0.003	
12/4/2006	<0.015		<0.003		<0.003		<0.003	
2/15/2007							<0.003	
6/23/2007	<0.015		<0.003		<0.003		<0.003	
9/11/2007							<0.003	
12/11/2007	<0.015		<0.003		<0.003		<0.003	
3/11/2008							<0.003	
6/23/2008	<0.015		<0.003		<0.003			
6/24/2008							<0.003	
11/3/2008							<0.003	
12/4/2008	<0.015		<0.003		<0.003		<0.003	
3/25/2009							<0.003	
7/7/2009	<0.015							
7/8/2009			<0.003		<0.003		<0.003	
9/14/2009							<0.003	
12/20/2009	<0.015						<0.003	
12/21/2009			<0.003		<0.003			
3/4/2010							<0.003	
6/20/2010	<0.015		<0.003		<0.003		<0.003	
9/14/2010							<0.003	
1/6/2011			<0.003		<0.003			
1/7/2011	<0.015						<0.003	
4/15/2011							<0.003	
7/7/2011	<0.015		<0.003		<0.003		<0.003	
9/25/2011							<0.003	
1/17/2012	<0.015		<0.003		<0.003		<0.003	
4/4/2012							<0.003	
7/9/2012	<0.015		<0.003		<0.003		<0.003	
10/9/2012							<0.003	
1/17/2013			<0.003		<0.003			
1/18/2013	<0.015						<0.003	
4/5/2013							<0.003	
7/16/2013			<0.003		<0.003			
7/17/2013	<0.015						<0.003	
10/11/2013							0.005	
1/13/2014	<0.015		<0.003		<0.003			

Prediction Limit

Constituent: Antimony Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWC-11	GWC-11	GWC-13	GWC-13	GWC-14	GWC-14
1/14/2014							<0.003	
4/3/2014							<0.003	
7/8/2014			<0.003		<0.003			
7/9/2014	0.0022 (J)						<0.003	
10/24/2014							<0.003	
1/13/2015	<0.015		<0.003		<0.003			
1/14/2015							<0.003	
5/10/2015							<0.003	
7/16/2015	0.0028 (J)		<0.003		<0.003			
7/17/2015							<0.003	
10/6/2015							<0.003	
1/17/2016							<0.003	
1/18/2016	<0.015				<0.003			
1/19/2016			<0.003					
4/26/2016							<0.003	
7/26/2016			0.0005 (J)		0.0006 (J)			
7/27/2016	<0.015						<0.003	
8/31/2016			<0.003		<0.003			
9/1/2016	0.0017 (J)						<0.003	
10/25/2016	<0.015						<0.003	
10/26/2016			<0.003		<0.003			
1/4/2017			<0.003					
1/5/2017					<0.003		<0.003	
1/6/2017	0.0009 (J)							
4/4/2017							<0.003	
4/6/2017	<0.015		0.0006 (J)		<0.003			
7/11/2017			0.0009 (J)				<0.003	
7/12/2017					<0.003			
7/13/2017	0.0013 (J)							
10/2/2017							<0.003	
10/3/2017			<0.003					
10/4/2017	0.0008 (J)				<0.003			
1/9/2018	<0.015						<0.003	
1/10/2018					<0.003			
1/11/2018			0.0007 (J)					
7/9/2018							<0.003	
7/11/2018			<0.003		<0.003			
1/16/2019						<0.003		<0.003
1/17/2019				<0.003				
3/26/2019						<0.003		<0.003
3/27/2019				<0.003				
8/27/2019				0.00033 (J)		<0.003		<0.003
10/8/2019		<0.015		0.00046 (J)		<0.003		<0.003

Prediction Limit

Constituent: Antimony Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16	GWC-20	GWC-20	GWC-22	GWC-22	GWC-9	GWC-9
9/29/2000	<0.003						<0.003	
11/21/2000	<0.003						<0.003	
1/20/2001	<0.003						<0.003	
3/14/2001	<0.003						<0.003	
7/16/2001	<0.003						<0.003	
11/1/2001	<0.003						<0.003	
4/25/2002	<0.003						<0.003	
11/20/2002	<0.003						<0.003	
6/6/2003	<0.003						<0.003	
12/12/2003	<0.003						<0.003	
5/26/2004	<0.003						<0.003	
12/7/2004	<0.003						<0.003	
6/21/2005	<0.003						<0.003	
12/12/2005	<0.003						<0.003	
4/4/2006	<0.003							
6/27/2006	<0.003						<0.003	
8/30/2006	<0.003							
12/4/2006	0.006						<0.003	
2/15/2007	<0.003							
6/23/2007	<0.003						<0.003	
9/11/2007	<0.003							
12/11/2007	<0.003						<0.003	
3/11/2008	<0.003							
6/23/2008							<0.003	
6/24/2008	<0.003							
11/3/2008	<0.003							
12/4/2008							<0.003	
12/5/2008	<0.003							
3/25/2009	<0.003							
7/8/2009	<0.003						<0.003	
9/14/2009	<0.003							
12/20/2009	<0.003							
12/21/2009							<0.003	
3/4/2010	<0.003							
6/20/2010							<0.003	
6/21/2010	<0.003		<0.003		<0.003			
9/14/2010	<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					
7/8/2011			<0.003		<0.003		<0.003	
9/25/2011	<0.003							
1/18/2012	<0.003		<0.003		<0.003		<0.003	
4/4/2012	<0.003							
7/10/2012	<0.003		<0.003		<0.003		<0.003	
10/9/2012	<0.003							
1/18/2013	<0.003		<0.003		<0.003		<0.003	
4/5/2013	<0.003							
7/17/2013	<0.003		<0.003		<0.003		<0.003	
10/11/2013	<0.003							
1/14/2014	<0.003		<0.003		<0.003		<0.003	
4/3/2014	<0.003							

Prediction Limit

Constituent: Antimony Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16	GWC-20	GWC-20	GWC-22	GWC-22	GWC-9	GWC-9
7/9/2014	<0.003						<0.003	
7/10/2014			<0.003		<0.003			
10/24/2014	<0.003							
1/12/2015			<0.003					
1/14/2015	<0.003				<0.003		<0.003	
5/11/2015	<0.003							
7/16/2015	<0.003							
7/17/2015							<0.003	
7/18/2015			<0.003		<0.003			
10/6/2015	<0.003							
1/17/2016	<0.003		<0.003					
1/18/2016					<0.003		<0.003	
4/26/2016	<0.003							
7/28/2016	<0.003		0.0019 (J)				<0.003	
7/29/2016					<0.003			
8/31/2016					<0.003		<0.003	
9/1/2016	<0.003		<0.003					
10/25/2016	<0.003		<0.003					
10/26/2016					<0.003			
10/27/2016							0.0016 (J)	
1/4/2017	<0.003		<0.003		<0.003			
1/6/2017							<0.003	
4/4/2017			<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						<0.003	
10/2/2017			<0.003					
10/3/2017	<0.003							
10/4/2017					<0.003		<0.003	
1/10/2018	<0.003		<0.003					
1/11/2018					<0.003		<0.003	
7/9/2018			<0.003					
7/10/2018	<0.003							
7/11/2018					<0.003		<0.003	
1/17/2019		<0.003						
1/18/2019						<0.003		<0.003
1/21/2019				<0.003				
3/25/2019				<0.003				
3/26/2019		<0.003						
3/27/2019						<0.003		<0.003
8/27/2019						0.00045 (J)		
8/28/2019		<0.003		<0.003				<0.003
10/8/2019		<0.003						
10/9/2019				<0.003		<0.003		<0.003

Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWA-7	GWA-7	GWA-8	GWA-8
9/29/2000	<0.003		<0.015		<0.005		<0.005	
11/21/2000	<0.003		<0.015		<0.005			
1/20/2001	<0.003		<0.015		<0.005		<0.005	
3/14/2001	<0.003		<0.015		<0.005		<0.005	
7/16/2001	<0.003		<0.015		<0.005		<0.005	
11/1/2001	<0.003		<0.015		<0.005		<0.005	
4/25/2002	<0.003		<0.015		<0.005		<0.005	
11/20/2002	<0.003		<0.015				<0.005	
6/6/2003	<0.003		<0.015		0.02		<0.005	
12/12/2003	<0.003		<0.015		<0.005		<0.005	
5/26/2004	<0.003		<0.015		<0.005		<0.005	
12/7/2004	<0.003		<0.015		<0.005		<0.005	
6/21/2005	<0.003		<0.015		<0.005		<0.005	
12/12/2005	<0.003		<0.015		<0.005		<0.005	
4/4/2006							<0.005	
6/27/2006	<0.003		<0.015		<0.005		<0.005	
8/30/2006							<0.005	
12/4/2006	<0.003		<0.015		<0.005		<0.005	
2/15/2007							<0.005	
6/23/2007	<0.003		<0.015		<0.005		<0.005	
9/11/2007							<0.005	
12/11/2007	<0.003		<0.015		<0.005		<0.005	
3/11/2008							<0.005	
6/23/2008					<0.005		<0.005	
6/24/2008	<0.003		<0.015					
11/3/2008							<0.005	
12/4/2008					<0.005		<0.005	
12/5/2008	<0.003		<0.015					
3/25/2009							<0.005	
7/7/2009	<0.003		<0.015		<0.005		<0.005	
9/14/2009							<0.005	
12/20/2009					<0.005		<0.005	
12/21/2009	<0.003		<0.015					
3/4/2010							<0.005	
6/20/2010			<0.015		<0.005		<0.005	
6/21/2010	<0.003							
9/14/2010							<0.005	
1/6/2011			<0.015					
1/7/2011	<0.003				<0.005		<0.005	
4/15/2011							<0.005	
7/7/2011			<0.015		<0.005		<0.005	
7/8/2011	<0.003							
9/25/2011							<0.005	
1/17/2012			<0.015		<0.005		<0.005	
1/18/2012	<0.003							
4/4/2012							<0.005	
7/9/2012			<0.015		0.0052			
7/10/2012	<0.003						<0.005	
10/9/2012							<0.005	
1/17/2013			<0.015					
1/18/2013	<0.003				0.0087		<0.005	
4/5/2013							<0.005	

Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWA-7	GWA-7	GWA-8	GWA-8
7/16/2013			<0.015					
7/17/2013	<0.003				0.0084		<0.005	
10/11/2013							<0.005	
1/13/2014			<0.015		0.009			
1/14/2014	<0.003						<0.005	
4/3/2014							<0.005	
7/9/2014	0.002 (J)		<0.015		0.008		<0.005	
10/24/2014							<0.005	
1/12/2015	<0.003							
1/13/2015			<0.015		0.0077			
1/14/2015							<0.005	
5/10/2015							<0.005	
7/16/2015	0.0021 (J)		<0.015		0.0077			
7/17/2015							<0.005	
10/6/2015							<0.005	
1/18/2016	<0.003		<0.015		0.014		<0.005	
4/26/2016							0.0011 (J)	
7/27/2016			<0.015		0.0111			
7/28/2016							<0.005	
7/29/2016	0.0003 (J)							
8/30/2016			<0.015				<0.005	
9/1/2016	<0.003				0.0287			
10/24/2016							<0.005	
10/25/2016					0.0069			
10/26/2016	<0.003		<0.015					
1/3/2017			<0.015				<0.005	
1/6/2017	<0.003				0.0097			
4/3/2017							0.0006 (J)	
4/4/2017	<0.003							
4/6/2017			<0.015		0.0104			
7/11/2017							0.0006 (J)	
7/12/2017	<0.003		<0.015					
7/13/2017					0.0064			
10/2/2017							0.0006 (J)	
10/3/2017			<0.015					
10/4/2017	<0.003				0.0078			
1/9/2018					0.0091 (J)		0.0009 (J)	
1/10/2018			<0.015					
1/11/2018	<0.003							
7/9/2018							<0.005	
7/10/2018			<0.015					
7/11/2018	<0.003							
1/16/2019		<0.003		<0.015				<0.005
3/25/2019		<0.003				0.0029 (J)		<0.005
3/26/2019				<0.015				
8/26/2019						0.0041 (J)		<0.005
8/27/2019		<0.003						
8/28/2019				0.00054 (J)				
10/7/2019								<0.005
10/8/2019						0.003 (J)		
10/9/2019		<0.003		<0.015				

Prediction Limit

Constituent: Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14
1/13/2014	<0.005		<0.005		<0.005			
1/14/2014							<0.005	
4/3/2014							<0.005	
7/8/2014			<0.005		<0.005			
7/9/2014	0.0022 (J)						<0.005	
10/24/2014							<0.005	
1/13/2015	<0.005		<0.005		<0.005			
1/14/2015							<0.005	
5/10/2015							<0.005	
7/16/2015	0.0037 (J)		<0.005		<0.005			
7/17/2015							<0.005	
10/6/2015							<0.005	
1/17/2016							0.002 (J)	
1/18/2016			<0.005		<0.005			
4/26/2016							0.00183 (J)	
7/26/2016					<0.005			
7/27/2016	0.0046 (J)		<0.005				0.0021 (J)	
8/30/2016	0.0023 (J)							
8/31/2016			<0.005		<0.005			
9/1/2016							0.0024 (J)	
10/25/2016	0.0035 (J)						<0.005	
10/26/2016			<0.005		<0.005			
1/4/2017	0.0018 (J)		<0.005					
1/5/2017					<0.005		0.0024 (J)	
4/4/2017	0.0015 (J)						0.003 (J)	
4/5/2017			0.0006 (J)					
4/6/2017					<0.005			
7/10/2017			0.0008 (J)					
7/11/2017							0.0019 (J)	
7/12/2017	0.0015 (J)				<0.005			
10/2/2017							0.0026 (J)	
10/3/2017	0.0013 (J)							
10/4/2017			0.0009 (J)		<0.005			
1/9/2018							0.0021 (J)	
1/10/2018	0.0023 (J)				0.0006 (J)			
1/11/2018			<0.005					
7/9/2018							0.0019 (J)	
7/10/2018	0.0031 (J)							
7/11/2018			<0.005		<0.005			
1/16/2019		0.0023 (J)				<0.005		0.0016 (J)
1/17/2019				<0.005				
3/26/2019		0.0032 (J)				0.00058 (J)		0.0023 (J)
3/27/2019				<0.005				
8/27/2019		0.0022 (J)		<0.005		<0.005		0.0017 (J)
10/8/2019						<0.005		0.0017 (J)
10/9/2019		0.0042 (J)		<0.005				

Prediction Limit

Constituent: Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2
9/29/2000	<0.005		0.094		<0.005			
11/21/2000	<0.005		0.059		<0.005		<0.005	
1/20/2001	<0.005		0.087		<0.005		<0.005	
3/14/2001	<0.005		0.075		<0.005		<0.005	
7/16/2001	<0.005		0.11		<0.005		<0.005	
11/1/2001	<0.005		0.098		<0.005		<0.005	
4/25/2002	<0.005		0.071		<0.005		<0.005	
11/20/2002	<0.005		0.15		<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		0.12		<0.005		<0.005	
12/7/2004	<0.005		0.098		<0.005		<0.005	
6/21/2005	<0.005		0.065		<0.005		<0.005	
12/12/2005	<0.005		0.081		<0.005		<0.005	
4/4/2006			0.077					
6/27/2006	<0.005		0.071		<0.005		<0.005	
8/30/2006			0.08					
12/4/2006	<0.005		0.085		<0.005		<0.005	
2/15/2007			0.09					
6/23/2007	<0.005		0.12		<0.005		<0.005	
9/11/2007			0.088					
12/11/2007	<0.005		0.088		<0.005		<0.005	
3/11/2008			0.071					
6/24/2008	<0.005		0.097		<0.005		<0.005	
11/3/2008			0.089					
12/4/2008							<0.005	
12/5/2008	<0.005		0.092		<0.005			
3/25/2009			0.095					
7/8/2009	0.0052		0.11		<0.005		<0.005	
9/14/2009			0.099					
12/20/2009	<0.005		0.1				<0.005	
12/21/2009					<0.005			
3/4/2010			0.074					
6/20/2010	0.0068						<0.005	
6/21/2010			0.056		<0.005			
9/14/2010			0.067					
1/6/2011							<0.005	
1/7/2011	<0.005		0.066		<0.005			
4/15/2011			0.08					
7/7/2011	<0.005		0.054					
7/8/2011					<0.005			
9/25/2011			0.085					
1/17/2012	<0.005						<0.005	
1/18/2012			0.089		<0.005			
4/4/2012			0.0473					
7/9/2012	<0.005						<0.005	
7/10/2012			0.07		<0.005			
10/9/2012			0.088					
1/17/2013							<0.005	
1/18/2013	0.0089		0.063		<0.005			
4/5/2013			0.06					
7/17/2013	0.011		0.063		<0.005		<0.005	

Prediction Limit

Constituent: Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2
10/11/2013			0.059					
1/13/2014	0.017						<0.005	
1/14/2014			0.077		<0.005			
4/3/2014			0.091					
7/9/2014	0.014		0.08		<0.005		<0.005	
10/24/2014			0.073					
1/13/2015	0.011						<0.005	
1/14/2015			0.079		<0.005			
5/11/2015			0.058					
7/16/2015	0.02		0.068				<0.005	
7/18/2015					<0.005			
10/6/2015			0.078					
1/17/2016	0.014		0.089				<0.005	
1/18/2016					<0.005			
4/26/2016			0.0731					
7/27/2016	0.0303						<0.005	
7/28/2016			0.0627					
7/29/2016					0.0009 (J)			
8/31/2016							<0.005	
9/1/2016	0.0533		0.0551		<0.005			
10/25/2016	0.0551		0.0466					
10/26/2016					<0.005		<0.005	
1/4/2017			0.0444					
1/5/2017	0.0437				<0.005		<0.005	
4/3/2017	0.0713							
4/4/2017							<0.005	
4/5/2017			0.0591		0.0011 (J)			
7/11/2017	0.0745							
7/12/2017			0.0776					
7/13/2017					0.0016 (J)		<0.005	
10/2/2017	0.0723							
10/3/2017			0.0813				<0.005	
10/4/2017					0.0019 (J)			
1/9/2018	0.0731							
1/10/2018			0.085				0.0006 (J)	
1/11/2018					0.0015 (J)			
7/10/2018	0.09		0.067				<0.005	
7/11/2018					0.00082 (J)			
1/16/2019						<0.005		
1/17/2019		0.13		0.079				
1/21/2019								<0.005
3/26/2019		0.1		0.089		0.0015 (J)		
7/30/2019								0.00039 (J)
8/27/2019		0.17						<0.005
8/28/2019				0.091		0.0011 (J)		
10/8/2019		0.13		0.088				
10/9/2019						0.0011 (J)		<0.005

Prediction Limit

Constituent: Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWB-4R	GWB-4R
9/29/2000							<0.005	
11/21/2000							<0.005	
3/14/2001							<0.005	
7/16/2001							<0.005	
11/1/2001							<0.005	
4/25/2002							<0.005	
12/12/2003							0.0058	
5/26/2004							0.0068	
12/7/2004							0.0066	
6/21/2005							<0.005	
12/12/2005							<0.005	
6/27/2006							<0.005	
12/4/2006							<0.005	
6/23/2007							<0.005	
12/11/2007							<0.005	
6/24/2008							0.005	
12/5/2008							<0.005	
7/7/2009							<0.005	
12/21/2009							<0.005	
6/21/2010	0.29				<0.005			
1/7/2011	0.2		<0.005		<0.005		<0.005	
7/7/2011	<0.005							
7/8/2011	0.19		<0.005		<0.005		<0.005	
1/18/2012	0.058		<0.005		<0.005		<0.005	
7/10/2012	0.18		<0.005		<0.005		0.0052	
1/18/2013	0.22				<0.005		<0.005	
7/17/2013	0.45		<0.005		<0.005		<0.005	
1/14/2014	0.52				<0.005		<0.005	
7/9/2014			<0.005				0.0023 (J)	
7/10/2014	0.4				0.0027 (J)			
1/12/2015	0.43						0.0028 (J)	
1/14/2015			<0.005		<0.005			
7/16/2015							<0.005	
7/17/2015			<0.005					
7/18/2015	0.26				<0.005			
1/17/2016	0.34							
1/18/2016					<0.005		<0.005	
7/28/2016	0.209		<0.005					
7/29/2016					0.002 (J)		0.0014 (J)	
8/31/2016					0.0017 (J)			
9/1/2016	0.215		0.0039 (J)				0.0033 (J)	
10/25/2016	0.307		<0.005					
10/26/2016					<0.005		0.0016 (J)	
1/4/2017	0.311		<0.005		<0.005			
1/6/2017							<0.005	
4/4/2017	0.317		0.0031 (J)				0.0021 (J)	
4/6/2017					0.0006 (J)			
7/11/2017	0.299				0.0012 (J)			
7/12/2017							0.0015 (J)	
7/13/2017			<0.005					
10/2/2017	0.216							
10/3/2017			<0.005					

Prediction Limit

Constituent: Arsenic Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWB-4R	GWB-4R
10/4/2017					0.0025 (J)		0.0018 (J)	
1/9/2018			0.0033 (J)					
1/10/2018	0.347							
1/11/2018					0.0006 (J)		0.0015 (J)	
7/9/2018	0.37							
7/10/2018			0.0027 (J)					
7/11/2018					0.0011 (J)		0.00095 (J)	
1/16/2019								0.0024 (J)
1/17/2019				0.0022 (J)				
1/18/2019						<0.005		
1/21/2019	0.44							
3/25/2019	0.41							0.0029 (J)
3/26/2019				0.0045 (J)				
3/27/2019						<0.005		
8/27/2019						0.00044 (J)		0.0023 (J)
8/28/2019	0.43			0.002 (J)				
10/8/2019				0.0028 (J)				
10/9/2019	0.35					<0.005		0.0024 (J)

Prediction Limit

Constituent: Arsenic, Barium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8
9/29/2000	<0.005		<0.025		0.11			
11/21/2000	<0.005		<0.025		0.12			
1/20/2001	<0.005		0.014		0.11			
3/14/2001	<0.005		<0.025		0.11		0.14	
7/16/2001	0.014		<0.025		0.11		0.14	
11/1/2001	0.023		<0.025		0.11		0.14	
4/25/2002	<0.005		<0.025		0.058		0.088	
11/20/2002	0.022		0.014					
6/6/2003			0.014		0.19		0.14	
12/12/2003	<0.005		<0.025		0.1		0.13	
5/26/2004	0.0074		0.0082		0.084		0.09	
12/7/2004	0.017		0.0062		0.094		0.11	
6/21/2005	0.013		<0.025		0.089		0.084	
12/12/2005	<0.005		<0.025		0.089		0.1	
4/4/2006							0.089	
6/27/2006	<0.005		<0.025		0.096		0.1	
8/30/2006							0.12	
12/4/2006	<0.005		<0.025		0.092		0.086	
2/15/2007							0.088	
6/23/2007	<0.005		0.0053		0.08		0.089	
9/11/2007							0.092	
12/11/2007	<0.005		0.0057		0.067		0.077	
3/11/2008							0.082	
6/23/2008					0.056		0.086	
6/24/2008	<0.005		0.012					
11/3/2008							0.088	
12/4/2008					0.054		0.081	
12/5/2008	<0.005		0.0064					
3/25/2009							0.069	
7/7/2009	<0.005		<0.025		0.034		0.078	
9/14/2009							0.079	
12/20/2009					0.034		0.081	
12/21/2009	<0.005		<0.025					
3/4/2010							0.065	
6/20/2010	<0.005		0.017		0.062		0.078	
9/14/2010							0.076	
1/6/2011	<0.005							
1/7/2011			<0.025		0.039		0.074	
4/15/2011							0.065	
7/7/2011	<0.005		<0.025		0.036		0.081	
9/25/2011							0.078	
1/17/2012	<0.005				0.041		0.082	
1/18/2012			<0.025					
4/4/2012							0.0861	
7/9/2012	<0.005				0.15			
7/10/2012			<0.025				0.082	
10/9/2012							0.09	
1/17/2013	<0.005							
1/18/2013			<0.025		0.15		0.083	
4/5/2013							0.078	
7/16/2013	<0.005							
7/17/2013			<0.025		0.13		0.083	

Prediction Limit

Constituent: Arsenic, Barium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8
10/11/2013							0.078	
1/13/2014	<0.005				0.16			
1/14/2014			<0.025				0.081	
4/3/2014							0.077	
7/9/2014	<0.005		<0.025		0.11		0.073	
10/24/2014							0.087	
1/13/2015	<0.005				0.083			
1/14/2015			<0.025				0.079	
5/10/2015							0.076	
7/16/2015	<0.005				0.094			
7/17/2015			<0.025				0.061	
10/6/2015							0.067	
1/18/2016	<0.005		<0.025		0.22		0.068	
4/26/2016							0.0596	
7/27/2016	0.0008 (J)				0.192			
7/28/2016			0.0009 (J)				0.0701	
8/30/2016	<0.005		<0.025				0.0687	
10/24/2016							0.07	
10/25/2016					0.173			
10/26/2016	<0.005		<0.025					
1/3/2017	<0.005						0.061	
1/5/2017			0.0021 (J)					
1/6/2017					0.167			
4/3/2017							0.0612	
4/6/2017	0.0006 (J)		0.0011 (J)		0.136			
7/11/2017							0.0624	
7/12/2017	0.0009 (J)		0.0014 (J)					
7/13/2017					0.0891			
10/2/2017							0.0618	
10/3/2017	0.001 (J)		0.0014 (J)					
10/4/2017					0.113			
1/9/2018			0.0017 (J)		0.0901		0.0574	
1/10/2018	0.0012 (J)							
7/9/2018							0.056	
7/10/2018	0.0016 (J)		0.00063 (J)					
7/11/2018					0.065			
1/16/2019		0.0011 (J)		<0.025		0.062		0.062
3/25/2019						0.054		0.064
3/26/2019		0.0014 (J)		0.0029 (J)				
8/26/2019						0.11		0.065
8/27/2019				0.0035 (J)				
8/28/2019		0.0023 (J)						
10/7/2019								0.069
10/8/2019						0.1		
10/9/2019		0.0053 (J)		0.0018 (J)				

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
9/29/2000	0.044		0.1		0.075		<0.005	
11/21/2000	0.047		0.082		0.072		0.01	
1/20/2001	0.051		0.083		0.086		<0.005	
3/14/2001	0.048		0.075		0.088		0.01	
7/16/2001	0.054		0.091		0.084		<0.005	
11/1/2001	0.063		0.068		0.13		<0.005	
4/25/2002	0.032		0.066		0.24		<0.005	
6/6/2003	0.046		0.085				0.028	
12/12/2003	0.034		0.072				0.019	
5/26/2004	0.035		0.055				<0.005	
12/7/2004	0.024		0.066				0.009	
6/21/2005	0.039		0.033		0.053		0.0089	
12/12/2005	0.042		0.034		0.1		0.026	
6/27/2006	0.033		0.029		0.098		0.029	
12/4/2006	0.04		0.02		0.068		0.017	
6/23/2007	0.044		0.017		0.042		0.014	
12/11/2007	0.049		0.013		0.04		0.011	
6/23/2008			0.012		0.041		0.018	
6/24/2008	0.038							
12/4/2008			0.011		0.035		0.019	
12/5/2008	0.06							
7/7/2009	0.043							
7/8/2009			0.012		0.036		0.011	
12/20/2009	0.065							
12/21/2009			0.011		0.028		0.01	
6/20/2010	0.095		0.0089		0.025		0.0081	
1/6/2011	0.093		0.014				0.012	
1/7/2011					0.037			
7/7/2011	0.095		0.018		0.039		0.015	
1/17/2012	0.1		0.23		0.045		0.0086	
7/9/2012	0.11		0.17		0.032		0.01	
1/17/2013	0.12		0.2		0.033		0.014	
7/16/2013	0.081		0.11		0.027		0.012	
1/13/2014	0.096		0.083		0.027		0.015	
7/8/2014			0.066		0.037		0.017	
7/9/2014	0.066							
1/13/2015	0.068		0.053		0.023		0.019	
7/16/2015	0.07		0.052		0.03		0.022	
1/17/2016	0.062							
1/18/2016					0.032		0.026	
1/19/2016			0.048					
7/26/2016			0.051				0.0236	
7/27/2016	0.0417				0.0191			
8/30/2016	0.0545							
8/31/2016			0.0565		0.019		0.0273	
10/25/2016	0.0504							
10/26/2016			0.0591		0.0197		0.0238	
1/4/2017	0.0534		0.0598		0.0174			
1/5/2017							0.0218	
4/4/2017	0.0549							
4/5/2017					0.0174			
4/6/2017			0.0813				0.0204	

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Inrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
7/10/2017					0.0172			
7/11/2017			0.0302					
7/12/2017	0.0614						0.0161	
10/3/2017	0.0436		0.103					
10/4/2017					0.0162		0.0185	
1/10/2018	0.053						0.0166	
1/11/2018			0.166		0.018			
7/10/2018	0.059							
7/11/2018			0.12		0.014		0.019	
1/16/2019		0.054						0.019
1/17/2019				0.039		0.017		
3/26/2019		0.055						0.026
3/27/2019				0.053		0.017		
8/27/2019		0.054		0.12		0.017		0.024
10/8/2019				0.13				0.024
10/9/2019		0.058				0.019		

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Inrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
9/29/2000	0.11		0.028		0.076		0.16	
11/21/2000	0.15		0.035		0.075		0.17	
1/20/2001	0.1		0.032		0.053		0.16	
3/14/2001	0.095		0.036		0.055		0.17	
7/16/2001			0.036		0.041		0.19	
11/1/2001	0.16		0.036		0.045		0.18	
4/25/2002	0.054		0.045		0.055		0.15	
6/6/2003	0.063						0.13	
12/12/2003	0.041						0.18	
5/26/2004	0.059		0.034		0.055		0.17	
12/7/2004	0.076		0.042		0.072		0.19	
6/21/2005	0.042		0.039		0.061		0.18	
12/12/2005	0.048		0.043		0.047		0.17	
4/4/2006	0.05				0.042			
6/27/2006	0.036		0.031		0.042		0.17	
8/30/2006	0.059				0.05			
12/4/2006	0.062		0.043		0.044		0.21	
2/15/2007	0.079				0.041			
6/23/2007	0.03		0.031		0.044		0.17	
9/11/2007	0.053				0.04			
12/11/2007	0.075		0.044		0.0035		0.18	
3/11/2008	0.052				0.034			
6/24/2008	0.039		0.057		0.042		0.14	
11/3/2008	0.082				0.049			
12/4/2008	0.079							
12/5/2008			0.041		0.05		0.19	
3/25/2009	0.093				0.052			
7/8/2009	0.039		0.058		0.046		0.2	
9/14/2009	0.061				0.048			
12/20/2009	0.088		0.062		0.062			
12/21/2009							0.23	
3/4/2010	0.077				0.058			
6/20/2010	0.075		0.03					
6/21/2010					0.041		0.25	
9/14/2010	0.093				0.036			
1/7/2011	0.13		0.049		0.054		0.21	
4/15/2011	0.086				0.049			
7/7/2011	0.051		0.05		0.063			
7/8/2011							0.13	
9/25/2011	0.056				0.037			
1/17/2012	0.052		0.044					
1/18/2012					0.034		0.26	
4/4/2012	0.0519				0.0446			
7/9/2012	0.048		0.045					
7/10/2012					0.033		0.19	
10/9/2012	0.065				0.041			
1/18/2013	0.045		0.049		0.036		0.17	
4/5/2013	0.047				0.036			
7/17/2013	0.032		0.039		0.054		0.18	
10/11/2013	0.028				0.052			
1/13/2014			0.038					
1/14/2014	0.036				0.051		0.18	

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Inrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
1/4/2017			0.0999		0.0617		0.0975	
1/5/2017	0.0526							
4/4/2017	0.0503		0.136		0.0761			
4/6/2017							0.064	
7/11/2017			0.145				0.0778	
7/13/2017	0.0529				0.0428			
10/2/2017			0.148					
10/3/2017	0.057				0.0376			
10/4/2017							0.156	
1/9/2018					0.0704			
1/10/2018	0.0527		0.0788					
1/11/2018							0.0702	
7/9/2018			0.087					
7/10/2018	0.054				0.061			
7/11/2018							0.12	
1/17/2019						0.061		
1/18/2019								0.052
1/21/2019		0.05		0.069				
3/25/2019				0.085				
3/26/2019						0.084		
3/27/2019								0.057
7/30/2019		0.052						
8/27/2019		0.053						0.097
8/28/2019				0.078		0.063		
10/8/2019						0.079		
10/9/2019		0.05		0.078				0.065

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R
9/29/2000	0.093		0.16		0.22		0.16	
11/21/2000	0.095		0.16		0.13		0.21	
1/20/2001	0.089		0.21		0.19		0.23	
3/14/2001	0.088		0.18		0.27		0.22	
7/16/2001	0.096		0.18		0.37		0.22	
11/1/2001	0.094		0.15				0.23	
4/25/2002	0.085		0.16		0.19		0.15	
6/6/2003	0.09		0.29				0.13	
12/12/2003	0.084		0.18		0.054		0.034	
5/26/2004	0.08		0.16		0.18		0.13	
12/7/2004	0.098		0.16		0.24		0.13	
6/21/2005	0.084		0.15		0.2		0.07	
12/12/2005	0.07		0.15		0.074		0.04	
6/27/2006	0.083		0.19		0.075		0.041	
12/4/2006	0.072		0.26		0.092		0.048	
6/23/2007	0.087		0.24		0.089		0.12	
12/11/2007	0.082		0.21		0.072		0.12	
6/23/2008	0.1							
6/24/2008			0.13		0.049		0.17	
12/4/2008	0.12							
12/5/2008			0.12		0.067		0.093	
7/7/2009			0.17		0.04		0.06	
7/8/2009	0.14							
12/21/2009	0.15		0.2		0.044		0.11	
6/20/2010	0.21				0.036		0.11	
6/21/2010			0.22					
1/6/2011					0.075			
1/7/2011	0.2		0.12				0.025	
7/7/2011					0.13		0.025	
7/8/2011	0.18		0.15					
1/17/2012					0.21			
1/18/2012	0.18		0.15				0.03	
7/9/2012					0.2			
7/10/2012	0.16		0.14				0.028	
1/17/2013					0.19			
1/18/2013	0.19		0.15				0.058	
7/16/2013					0.076			
7/17/2013	0.17		0.14				0.086	
1/13/2014					0.14			
1/14/2014	0.2		0.16				0.1	
7/9/2014	0.16		0.12		0.12		0.082	
1/12/2015			0.13					
1/13/2015					0.13			
1/14/2015	0.17						0.094	
7/16/2015			0.11		0.12			
7/17/2015	0.18						0.11	
1/18/2016	0.2		0.095		0.12		0.11	
7/27/2016					0.112			
7/28/2016	0.234						0.105	
7/29/2016			0.0883					
8/30/2016					0.135		0.106	
8/31/2016	0.284							

Prediction Limit

Constituent: Barium Analysis Run 2/17/2020 3:57 PM View: Inrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R
9/1/2016			0.123					
10/26/2016			0.0863		0.103		0.107	
10/27/2016	0.244							
1/3/2017					0.118			
1/5/2017							0.107	
1/6/2017	0.305		0.0758					
4/4/2017			0.091					
4/6/2017	0.249				0.162		0.111	
7/12/2017	0.256		0.0941		0.157		0.106	
10/3/2017					0.127		0.105	
10/4/2017	0.356		0.0994					
1/9/2018							0.0969	
1/10/2018					0.158			
1/11/2018	0.226		0.088					
7/10/2018					0.31		0.087	
7/11/2018	0.29		0.071					
1/16/2019				0.083		0.054		0.013 (J)
1/18/2019		0.21						
3/25/2019				0.077				
3/26/2019						0.057		0.012 (J)
3/27/2019		0.19						
8/27/2019				0.076				0.013
8/28/2019		0.17				0.1		
10/9/2019		0.18		0.076		0.13		0.014 (J)

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
9/29/2000	<0.0013		<0.01		<0.0013		<0.01	
11/21/2000	<0.0013				<0.0013		<0.01	
1/20/2001	<0.0013		<0.01		<0.0013		<0.01	
3/14/2001	<0.0013		<0.01		<0.0013		<0.01	
7/16/2001	<0.0013		<0.01		<0.0013		<0.01	
11/1/2001	<0.0013		<0.01		<0.0013		<0.01	
4/25/2002	<0.0013		<0.01		<0.0013		<0.01	
11/20/2002					<0.0013		0.006	
6/6/2003	0.037		0.014				0.0082	
12/12/2003	0.0044		0.011		<0.0013		0.0023	
5/26/2004	<0.0013		<0.01		<0.0013		<0.01	
12/7/2004	<0.0013		<0.01		<0.0013		<0.01	
6/21/2005	<0.0013		<0.01		<0.0013		<0.01	
12/12/2005	<0.0013		<0.01				<0.01	
4/4/2006			<0.01					
6/27/2006	<0.0013		<0.01		<0.0013		<0.01	
8/30/2006			<0.01					
12/4/2006	0.0015		<0.01		<0.0013		0.0021	
2/15/2007			<0.01					
6/23/2007	<0.0013		<0.01		<0.0013		0.0017	
9/11/2007			<0.01					
12/11/2007	0.0016		<0.01		<0.0013		<0.01	
3/11/2008			<0.01					
6/23/2008	0.0019		<0.01				<0.01	
6/24/2008					<0.0013			
11/3/2008			<0.01					
12/4/2008	<0.0013		<0.01				<0.01	
12/5/2008					<0.0013			
3/25/2009			<0.01					
7/7/2009	0.0037		<0.01		0.0013			
7/8/2009							<0.01	
9/14/2009			<0.01					
12/20/2009	0.0016		<0.01		<0.0013			
12/21/2009							<0.01	
3/4/2010			<0.01					
6/20/2010	<0.0013		<0.01		<0.0013		<0.01	
9/14/2010			<0.01					
1/6/2011					<0.0013		<0.01	
1/7/2011	0.0033		<0.01					
4/15/2011			<0.01					
7/7/2011	0.0044		<0.01		<0.0013		0.0023	
1/17/2012	0.0038		<0.01		<0.0013		<0.01	
4/4/2012			<0.01					
7/9/2012	0.022				<0.0013		0.0017	
7/10/2012			<0.01					
10/9/2012			<0.01					
1/17/2013					<0.0013		<0.01	
1/18/2013	0.034		<0.01					
4/5/2013			<0.01					
7/16/2013					<0.0013		<0.01	
7/17/2013	0.032		<0.01					
10/11/2013			<0.01					

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
1/13/2014	0.04				<0.0013		<0.01	
1/14/2014			<0.01					
4/3/2014			<0.01					
7/8/2014							<0.01	
7/9/2014	0.036		<0.01		0.0011 (J)			
10/24/2014			<0.01					
1/13/2015	0.03				<0.0013		<0.01	
1/14/2015			<0.01					
5/10/2015			<0.01					
7/16/2015	0.039				0.0011 (J)		<0.01	
7/17/2015			<0.01					
10/6/2015			<0.01					
1/17/2016					<0.0013			
1/18/2016	0.068		<0.01					
1/19/2016							<0.01	
4/26/2016			<0.01					
7/26/2016							0.0005 (J)	
7/27/2016	0.05				0.0016 (J)			
7/28/2016			<0.01					
8/30/2016			<0.01		0.0015 (J)			
8/31/2016							0.001 (J)	
10/24/2016			<0.01					
10/25/2016	0.0519				0.0018 (J)			
10/26/2016							<0.01	
1/3/2017			<0.01					
1/4/2017					0.0021 (J)		<0.01	
1/6/2017	0.0536							
4/3/2017			0.0004 (J)					
4/4/2017					0.002 (J)			
4/6/2017	0.0447 (J)						0.0007 (J)	
7/11/2017			0.0006 (J)				0.0006 (J)	
7/12/2017					0.0021 (J)			
7/13/2017	0.0269							
10/2/2017			<0.01					
10/3/2017					0.0014 (J)		0.0007 (J)	
10/4/2017	0.0378							
1/9/2018	0.0283 (J)		<0.01					
1/10/2018					0.0017 (J)			
1/11/2018							0.0098 (J)	
7/9/2018			<0.01					
7/10/2018					0.0021 (J)			
7/11/2018	0.018 (J)						<0.01	
1/16/2019		0.018 (J)		<0.01		0.0021 (J)		
1/17/2019								<0.01
3/25/2019		0.017 (J)		<0.01				
3/26/2019						0.0018 (J)		
3/27/2019								<0.01
8/26/2019		0.024 (J)		0.001 (J)				
8/27/2019						0.0062 (J)		0.00092 (J)
10/7/2019				0.00052 (J)				
10/8/2019		0.021 (J)						0.00091 (J)
10/9/2019						0.0019 (J)		

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
9/29/2000	<0.01		<0.01		<0.01		<0.01	
11/21/2000	<0.01		<0.01		<0.01		<0.01	
1/20/2001	<0.01		<0.01		<0.01		<0.01	
3/14/2001	<0.01		<0.01		<0.01		<0.01	
7/16/2001	<0.01		<0.01		<0.01		<0.01	
11/1/2001	<0.01		<0.01		<0.01		<0.01	
4/25/2002	<0.01		<0.01		<0.01		<0.01	
11/20/2002	0.002		<0.01		0.014		0.0058	
6/6/2003	<0.01		0.003		<0.01		0.0068	
12/12/2003	<0.01		<0.01		<0.01		0.0041	
5/26/2004	<0.01		<0.01		<0.01		<0.01	
12/7/2004	<0.01		<0.01		<0.01		0.0026	
6/21/2005	<0.01		<0.01		<0.01		<0.01	
12/12/2005	<0.01		<0.01		<0.01		<0.01	
4/4/2006					<0.01			
6/27/2006	<0.01		<0.01		<0.01		0.0013	
8/30/2006					<0.01			
12/4/2006	0.0032		0.0017				<0.01	
2/15/2007					<0.01			
6/23/2007	<0.01		<0.01		<0.01		<0.01	
9/11/2007					<0.01			
12/11/2007	<0.01		<0.01		<0.01		<0.01	
3/11/2008					<0.01			
6/23/2008	0.0016		<0.01					
6/24/2008					<0.01		0.0014	
11/3/2008					<0.01			
12/4/2008	<0.01		<0.01		<0.01			
12/5/2008							<0.01	
3/25/2009					<0.01			
7/8/2009	<0.01		<0.01		<0.01		<0.01	
9/14/2009					<0.01			
12/20/2009					<0.01		<0.01	
12/21/2009	<0.01		<0.01					
3/4/2010					<0.01			
6/20/2010	<0.01		<0.01		<0.01		<0.01	
9/14/2010					<0.01			
1/6/2011			<0.01					
1/7/2011	<0.01				0.0016		<0.01	
7/7/2011	<0.01		0.0019		<0.01		<0.01	
9/25/2011					0.0013			
1/17/2012	<0.01		<0.01		<0.01		<0.01	
4/4/2012					<0.01			
7/9/2012	<0.01		<0.01		<0.01		<0.01	
10/9/2012					0.0019			
1/17/2013	<0.01		<0.01					
1/18/2013					0.0017		<0.01	
4/5/2013					0.0019			
7/16/2013	<0.01		<0.01					
7/17/2013					0.0017		<0.01	
10/11/2013					0.0013			
1/13/2014	<0.01		<0.01				<0.01	
1/14/2014					0.001			

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
7/8/2014	<0.01		<0.01					
7/9/2014					0.0012 (J)		<0.01	
10/24/2014					<0.01			
1/13/2015	<0.01		<0.01				<0.01	
1/14/2015					0.0013			
5/10/2015					<0.01			
7/16/2015	0.001 (J)		<0.01				<0.01	
7/17/2015					0.001 (J)			
10/6/2015					<0.01			
1/17/2016					0.0012 (J)		<0.01	
1/18/2016	<0.01		<0.01					
4/26/2016					<0.01			
7/26/2016			<0.01					
7/27/2016	0.0014 (J)				0.0008 (J)		0.0007 (J)	
8/31/2016	0.0012 (J)		0.0011 (J)					
9/1/2016					0.0015 (J)		0.0011 (J)	
10/25/2016					<0.01		<0.01	
10/26/2016	0.0012 (J)		<0.01					
1/4/2017	0.0012 (J)							
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)							
4/6/2017			0.0011 (J)					
7/10/2017	0.0014 (J)							
7/11/2017					0.0008 (J)		0.0013 (J)	
7/12/2017			0.0007 (J)					
10/2/2017					0.0009 (J)		0.0013 (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)					
1/11/2018	0.001 (J)							
7/9/2018					<0.01			
7/10/2018							<0.01	
7/11/2018	<0.01		0.0019 (J)					
1/16/2019				<0.01		<0.01		
1/17/2019		0.0028 (J)						<0.01
3/26/2019				<0.01		<0.01		<0.01
3/27/2019		<0.01						
8/27/2019		0.00085 (J)		<0.01		0.001 (J)		0.0016 (J)
10/8/2019				<0.01		0.00053 (J)		0.0017 (J)
10/9/2019		0.00081 (J)						

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20
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	0.0041		<0.01		<0.01			
6/6/2003			<0.01		<0.01			
12/12/2003	0.0059				<0.01			
5/26/2004	<0.01		<0.01		<0.01			
12/7/2004	<0.01		0.0021		<0.01			
6/21/2005	<0.01		<0.01		<0.01			
12/12/2005	<0.01		<0.01		<0.01			
4/4/2006	<0.01							
6/27/2006	<0.01		<0.01		<0.01			
8/30/2006	<0.01							
12/4/2006			<0.01		<0.01			
2/15/2007	<0.01							
6/23/2007	0.0016		<0.01		<0.01			
9/11/2007	<0.01							
12/11/2007	<0.01		<0.01		<0.01			
3/11/2008	<0.01							
6/24/2008	<0.01		<0.01		<0.01			
11/3/2008	0.0025							
12/4/2008					<0.01			
12/5/2008	<0.01		<0.01					
3/25/2009	<0.01							
7/8/2009	<0.01		<0.01		<0.01			
9/14/2009	<0.01							
12/20/2009	<0.01				<0.01			
12/21/2009			<0.01					
3/4/2010	<0.01							
6/20/2010					<0.01			
6/21/2010	<0.01		<0.01				<0.01	
9/14/2010	<0.01							
1/6/2011					<0.01			
1/7/2011	0.0018		<0.01				0.0018	
4/15/2011	<0.01							
7/7/2011	<0.01						<0.01	
7/8/2011			0.0013				0.0019	
9/25/2011	<0.01							
1/17/2012					<0.01			
1/18/2012	<0.01		<0.01				<0.01	
4/4/2012	<0.01							
7/9/2012					<0.01			
7/10/2012	<0.01		<0.01				0.0013	
10/9/2012	0.0018							
1/17/2013					<0.01			
1/18/2013	<0.01		<0.01				0.0015	
4/5/2013	<0.01							
7/17/2013	<0.01		<0.01		<0.01		<0.01	

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20
10/11/2013	<0.01							
1/13/2014					<0.01			
1/14/2014	<0.01		<0.01				0	
4/3/2014	<0.01							
7/9/2014	<0.01		<0.01		<0.01			
7/10/2014							<0.01	
10/24/2014	<0.01							
1/12/2015							<0.01	
1/13/2015					<0.01			
1/14/2015	<0.01		<0.01					
5/11/2015	<0.01							
7/16/2015	<0.01				<0.01			
7/18/2015			<0.01				<0.01	
10/6/2015	<0.01							
1/17/2016	<0.01				<0.01		<0.01	
1/18/2016			<0.01					
4/26/2016	<0.01							
7/27/2016					0.0008 (J)			
7/28/2016	0.0006 (J)						0.0007 (J)	
7/29/2016			0.0009 (J)					
8/31/2016					<0.01			
9/1/2016	0.0011 (J)		0.0011 (J)				<0.01	
10/25/2016	<0.01						<0.01	
10/26/2016			<0.01		0.001 (J)			
1/4/2017	<0.01						<0.01	
1/5/2017			0.0012 (J)		<0.01			
4/4/2017					0.0008 (J)		0.0011 (J)	
4/5/2017	0.001 (J)		0.0015 (J)					
7/11/2017							0.0009 (J)	
7/12/2017	0.0011 (J)							
7/13/2017			0.0012 (J)		0.0006 (J)			
10/2/2017							0.0009 (J)	
10/3/2017	0.0009 (J)				<0.01			
10/4/2017			0.0055 (J)					
1/10/2018	0.0007 (J)				<0.01		0.0008 (J)	
1/11/2018			0.0009 (J)					
7/9/2018							<0.01	
7/10/2018	<0.01				<0.01			
7/11/2018			<0.01					
1/16/2019				<0.01				
1/17/2019		0.01 (J)						
1/21/2019						<0.01		<0.01
3/25/2019								<0.01
3/26/2019		<0.01		<0.01				
7/30/2019						0.00065 (J)		
8/27/2019						<0.01		
8/28/2019		0.0011 (J)		0.0013 (J)				0.00089 (J)
10/8/2019		0.00099 (J)						
10/9/2019				0.00081 (J)		0.00049 (J)		0.0011 (J)

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R
9/29/2000					<0.01		0.021	
11/21/2000					<0.01		0.017	
1/20/2001					<0.01		0.03	
3/14/2001					<0.01		0.019	
7/16/2001					<0.01		0.029	
11/1/2001					<0.01		0.021	
4/25/2002					<0.01		0.03	
11/20/2002					0.014		0.038	
6/6/2003					<0.01		0.028	
12/12/2003					<0.01		0.027	
5/26/2004					<0.01		0.021	
12/7/2004					0.0039		0.016	
6/21/2005					0.002		0.015	
12/12/2005					<0.01		0.022	
6/27/2006					<0.01		0.027	
12/4/2006					0.0019		0.025	
6/23/2007					0.0015		0.023	
12/11/2007					<0.01		0.018	
6/23/2008					0.0015			
6/24/2008							0.022	
12/4/2008					<0.01			
12/5/2008							0.023	
7/7/2009							0.012	
7/8/2009					<0.01			
12/21/2009					<0.01		0.019	
6/20/2010					0.0015			
6/21/2010	0.0019		<0.01				0.01	
1/7/2011	0.0017		<0.01		<0.01		0.023	
7/8/2011	0.0023		<0.01		<0.01		0.017	
1/18/2012	<0.01		<0.01		<0.01		0.0114	
7/10/2012	<0.01		<0.01		<0.01		0.014	
1/18/2013	<0.01		<0.01		<0.01		0.015	
7/17/2013	0.0019		<0.01		<0.01		0.011	
1/14/2014	<0.01		<0.01		<0.01		0.019	
7/9/2014	<0.01				0.0011 (J)		0.012	
7/10/2014			<0.01					
1/12/2015							0.016	
1/14/2015	<0.01		<0.01		<0.01			
7/16/2015							0.0084	
7/17/2015	<0.01				0.0013			
7/18/2015			<0.01					
1/17/2016	<0.01							
1/18/2016			<0.01		<0.01		0.014	
7/28/2016	0.0005 (J)				0.0011 (J)			
7/29/2016			0.0007 (J)				0.0077 (J)	
8/31/2016			<0.01		0.0024 (J)			
9/1/2016	<0.01						0.015	
10/25/2016	<0.01							
10/26/2016			<0.01				0.0106	
10/27/2016					<0.01			
1/4/2017	<0.01		<0.01					
1/6/2017					<0.01		0.0098 (J)	

Prediction Limit

Constituent: Chromium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R
4/4/2017	0.0008 (J)						0.0101	
4/6/2017			0.0006 (J)		0.0019 (J)			
7/11/2017			0.0005 (J)					
7/12/2017					0.0011 (J)		0.0096 (J)	
7/13/2017	0.0006 (J)							
10/3/2017	0.0005 (J)							
10/4/2017			0.0006 (J)		0.0011 (J)		0.0097 (J)	
1/9/2018	0.0007 (J)							
1/11/2018			<0.01		0.001 (J)		0.0109	
7/10/2018	<0.01							
7/11/2018			<0.01		<0.01		0.0055 (J)	
1/16/2019								0.0024 (J)
1/17/2019		0.01						
1/18/2019				<0.01		<0.01		
3/25/2019								0.002 (J)
3/26/2019		<0.01						
3/27/2019				<0.01		<0.01		
8/27/2019				0.00057 (J)				0.0027 (J)
8/28/2019		0.00087 (J)				0.00089 (J)		
10/8/2019		0.00065 (J)						
10/9/2019				0.00072 (J)		0.0009 (J)		0.002 (J)

Prediction Limit

Constituent: Chromium, Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8
9/29/2000	0.03		0.016		<0.013		<0.005	
11/21/2000	<0.01		0.023		<0.013			
1/20/2001	0.028		0.025		<0.013		<0.005	
3/14/2001			0.021		<0.013		<0.005	
7/16/2001			0.019		<0.013		<0.005	
11/1/2001			0.022		<0.013		<0.005	
4/25/2002	0.021		0.019		<0.013		<0.005	
11/20/2002			0.024				<0.005	
6/6/2003			0.021					
12/12/2003	<0.01		0.0066		0.008		0.0095	
5/26/2004	0.012		0.013		<0.013		<0.005	
12/7/2004	0.019		0.013		<0.013		<0.005	
6/21/2005	0.02		0.0067		<0.013		<0.005	
12/12/2005	<0.01		0.0033		<0.013		<0.005	
4/4/2006							<0.005	
6/27/2006	0.0015		0.0047		<0.013		<0.005	
8/30/2006							<0.005	
12/4/2006	0.0034		0.0084		<0.013		<0.005	
2/15/2007							<0.005	
6/23/2007	<0.01		0.01		<0.013		<0.005	
9/11/2007							<0.005	
12/11/2007	<0.01		0.0049		<0.013		<0.005	
3/11/2008							<0.005	
6/23/2008					<0.013		<0.005	
6/24/2008	<0.01							
11/3/2008							<0.005	
12/4/2008					<0.013		<0.005	
12/5/2008	0.0016		0.009					
3/25/2009							<0.005	
7/7/2009	<0.01		0.0044		<0.013		<0.005	
9/14/2009							<0.005	
12/20/2009					<0.013		<0.005	
12/21/2009	<0.01		0.0055					
3/4/2010							<0.005	
6/20/2010	<0.01		0.002		<0.013		<0.005	
9/14/2010							<0.005	
1/6/2011	0.0017							
1/7/2011			0.0039		<0.013		<0.005	
4/15/2011							<0.005	
7/7/2011	0.008		0.0031		<0.013		<0.005	
9/25/2011							<0.005	
1/17/2012	0.0082				<0.013		<0.005	
1/18/2012			0.0023					
4/4/2012							<0.005	
7/9/2012	0.01				<0.013			
7/10/2012			0.0022				<0.005	
10/9/2012							<0.005	
1/17/2013	0.01							
1/18/2013			<0.0013		<0.013		<0.005	
4/5/2013							<0.005	
7/16/2013	0.0061							
7/17/2013			<0.0013		<0.013		<0.005	

Prediction Limit

Constituent: Chromium, Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8
10/11/2013							<0.005	
1/13/2014	0.002				0.013			
1/14/2014			0.0013				<0.005	
4/3/2014							<0.005	
7/9/2014	<0.01		<0.0013		0.0076 (J)		<0.005	
10/24/2014							<0.005	
1/13/2015	<0.01				0.0057 (J)			
1/14/2015			0.0015				<0.005	
5/10/2015							<0.005	
7/16/2015	<0.01				0.009 (J)			
7/17/2015			0.0011 (J)				<0.005	
10/6/2015							<0.005	
1/18/2016	<0.01		0.0011 (J)		0.0094 (J)		<0.005	
4/26/2016							<0.005	
7/27/2016	0.0006 (J)				0.0058			
7/28/2016			0.001 (J)				<0.005	
8/30/2016	<0.01		0.0013 (J)				<0.005	
10/24/2016							<0.005	
10/25/2016					0.0003 (J)			
10/26/2016	<0.01		0.0014 (J)					
1/3/2017	0.001 (J)						0.0001 (J)	
1/5/2017			0.002 (J)					
1/6/2017					0.006			
4/3/2017							0.0002 (J)	
4/6/2017	0.0013 (J)		0.0034 (J)		0.0109			
7/11/2017							0.0001 (J)	
7/12/2017	0.0011 (J)		0.0024 (J)					
7/13/2017					0.007			
10/2/2017							0.0001 (J)	
10/3/2017	0.0012 (J)		0.0022 (J)					
10/4/2017					0.0042 (J)			
1/9/2018			0.0019 (J)		0.0098		0.0001 (J)	
1/10/2018	0.0016 (J)							
7/9/2018							<0.005	
7/10/2018	0.0055 (J)		0.0023 (J)					
7/11/2018					0.0028 (J)			
1/16/2019		<0.01		0.018 (J)				<0.005
3/25/2019						0.0019 (J)		<0.005
3/26/2019		0.072		0.017 (J)				
8/26/2019						0.013 (J)		<0.005
8/27/2019				0.0097 (J)				
8/28/2019		0.0071 (J)						
10/7/2019								<0.005
10/8/2019						0.0098 (J)		
10/9/2019		0.012 (J)		0.011 (J)				

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
9/29/2000	<0.005		<0.013		<0.005		<0.005	
11/21/2000	<0.005		<0.013		<0.005		<0.005	
1/20/2001	<0.005		<0.013		<0.005		<0.005	
3/14/2001	<0.005		<0.013		<0.005		<0.005	
7/16/2001	<0.005		<0.013		<0.005		<0.005	
11/1/2001	<0.005		<0.013		<0.005		<0.005	
4/25/2002	<0.005		<0.013		<0.005		<0.005	
11/20/2002	<0.005		<0.013		<0.005		<0.005	
6/6/2003	<0.005		0.0068		<0.005		0.0078	
12/12/2003	<0.005		<0.013		<0.005		0.0055	
5/26/2004	<0.005		<0.013		<0.005		<0.005	
12/7/2004	<0.005		<0.013		<0.005		<0.005	
6/21/2005	<0.005		<0.013		<0.005		<0.005	
12/12/2005	<0.005		<0.013		<0.005		<0.005	
6/27/2006	<0.005		<0.013		<0.005		<0.005	
12/4/2006	<0.005		<0.013		<0.005		<0.005	
6/23/2007	<0.005		<0.013		<0.005		<0.005	
12/11/2007	<0.005		<0.013		<0.005		<0.005	
6/23/2008			<0.013		<0.005		<0.005	
6/24/2008	<0.005							
12/4/2008			<0.013		<0.005		<0.005	
12/5/2008	<0.005							
7/7/2009	<0.005							
7/8/2009			<0.013		<0.005		<0.005	
12/20/2009	<0.005							
12/21/2009			<0.013		<0.005		<0.005	
6/20/2010	<0.005		<0.013		<0.005		<0.005	
1/6/2011	<0.005		<0.013				<0.005	
1/7/2011					<0.005			
7/7/2011	<0.005		<0.013		<0.005		<0.005	
1/17/2012	<0.005		<0.013		<0.005		<0.005	
7/9/2012	<0.005		<0.013		<0.005		<0.005	
1/17/2013	<0.005		<0.013		<0.005		<0.005	
7/16/2013	<0.005		<0.013		<0.005		<0.005	
1/13/2014	<0.005		<0.013		0.004		<0.005	
7/8/2014			<0.013		<0.005		<0.005	
7/9/2014	<0.005							
1/13/2015	<0.005		<0.013		<0.005		<0.005	
7/16/2015	<0.005		<0.013		0.0044 (J)		<0.005	
1/17/2016	<0.005							
1/18/2016					0.0034 (J)		<0.005	
1/19/2016			<0.013					
7/26/2016			0.0001 (J)				<0.005	
7/27/2016	<0.005				0.0001 (J)			
8/30/2016	<0.005							
8/31/2016			0.0002 (J)		0.0001 (J)		<0.005	
10/25/2016	<0.005							
10/26/2016			0.0001 (J)		0.0001 (J)		<0.005	
1/4/2017	<0.005		0.0002 (J)		<0.005			
1/5/2017							0.0002 (J)	
4/4/2017	<0.005							
4/5/2017					0.0003 (J)			

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
4/6/2017			0.0003 (J)				0.0005 (J)	
7/10/2017					0.0003 (J)			
7/11/2017			0.0002 (J)					
7/12/2017	<0.005						0.0005 (J)	
10/3/2017	<0.005		0.0003 (J)					
10/4/2017					0.0001 (J)		0.0007 (J)	
1/10/2018	0.0001 (J)						0.0009 (J)	
1/11/2018			0.0003 (J)		0.0002 (J)			
7/10/2018	<0.005							
7/11/2018					<0.005		0.0015 (J)	
1/16/2019		<0.005						0.00061 (J)
1/17/2019				0.00028 (J)		<0.005		
3/26/2019		<0.005						<0.005
3/27/2019				0.00029 (J)		<0.005		
8/27/2019		<0.005		0.00021 (J)		<0.005		0.0001 (J)
10/8/2019				0.00028 (J)				0.00013 (J)
10/9/2019		<0.005				6.6E-05 (J)		

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17
9/29/2000	<0.005		<0.005		<0.005		<0.005	
11/21/2000	<0.005		<0.005		<0.005		<0.005	
1/20/2001	<0.005		<0.005		<0.005		<0.005	
3/14/2001	<0.005		<0.005		<0.005		<0.005	
7/16/2001	<0.005		<0.005		<0.005		<0.005	
11/1/2001	<0.005		<0.005		<0.005		<0.005	
4/25/2002	<0.005		<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		0.0065		0.017		<0.005	
5/26/2004	<0.005		<0.005		<0.005		<0.005	
12/7/2004	<0.005		<0.005		<0.005		<0.005	
6/21/2005	<0.005		<0.005		<0.005		<0.005	
12/12/2005	<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	
8/30/2006	<0.005				<0.005			
12/4/2006	<0.005		<0.005		<0.005		<0.005	
2/15/2007	<0.005				<0.005			
6/23/2007	<0.005		<0.005		<0.005		<0.005	
9/11/2007	<0.005				<0.005			
12/11/2007	<0.005		<0.005		<0.005		<0.005	
3/11/2008	<0.005				<0.005			
6/24/2008	<0.005		<0.005		<0.005		<0.005	
11/3/2008	<0.005				<0.005			
12/4/2008	<0.005							
12/5/2008			<0.005		<0.005		<0.005	
3/25/2009	<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			
12/21/2009							<0.005	
3/4/2010	<0.005				<0.005			
6/20/2010	<0.005		<0.005					
6/21/2010					<0.005		<0.005	
9/14/2010	<0.005				<0.005			
1/7/2011	<0.005		<0.005		<0.005		<0.005	
4/15/2011	<0.005				<0.005			
7/7/2011	<0.005		<0.005		<0.005			
7/8/2011							<0.005	
9/25/2011	<0.005				<0.005			
1/17/2012	<0.005		<0.005					
1/18/2012					<0.005		<0.005	
4/4/2012	<0.005				<0.005			
7/9/2012	<0.005		<0.005					
7/10/2012					<0.005		<0.005	
10/9/2012	<0.005				<0.005			
1/18/2013	<0.005		<0.005		<0.005		<0.005	
4/5/2013	<0.005				<0.005			
7/17/2013	<0.005		<0.005		<0.005		<0.005	
10/11/2013	<0.005				<0.005			
1/13/2014			<0.005					

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
11/21/2000	0.0069							
1/20/2001	<0.005							
3/14/2001	<0.005							
7/16/2001	<0.005							
11/1/2001	<0.005							
4/25/2002	<0.005							
11/20/2002	<0.005							
6/6/2003	<0.005							
12/12/2003	<0.005							
5/26/2004	<0.005							
12/7/2004	<0.005							
6/21/2005	<0.005							
12/12/2005	<0.005							
6/27/2006	<0.005							
12/4/2006	<0.005							
6/23/2007	<0.005							
12/11/2007	<0.005							
6/24/2008	<0.005							
12/4/2008	<0.005							
7/8/2009	<0.005							
12/20/2009	<0.005							
6/20/2010	<0.005							
6/21/2010			<0.005		<0.005			<0.013
1/6/2011	<0.005							
1/7/2011			<0.005		<0.005			<0.013
7/7/2011			<0.005					
7/8/2011			<0.005		<0.005			<0.013
1/17/2012	<0.005							
1/18/2012			<0.005		<0.005			<0.013
7/9/2012	<0.005							
7/10/2012			<0.005		<0.005			<0.013
1/17/2013	<0.005							
1/18/2013			<0.005		<0.005			<0.013
7/17/2013	<0.005		<0.005		<0.005			<0.013
1/13/2014	<0.005							
1/14/2014			<0.005		<0.005			<0.013
7/9/2014	<0.005				<0.005			
7/10/2014			<0.005					<0.013
1/12/2015			<0.005					
1/13/2015	<0.005							
1/14/2015					<0.005			<0.013
7/16/2015	<0.005							
7/17/2015					<0.005			
7/18/2015			<0.005					<0.013
1/17/2016	<0.005		<0.005		<0.005			
1/18/2016								<0.013
7/27/2016	<0.005							
7/28/2016			<0.005		<0.005			
7/29/2016								0.0004 (J)
8/31/2016	<0.005							0.0003 (J)
9/1/2016			<0.005		<0.005			
10/25/2016			0.0001 (J)		<0.005			

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
10/26/2016	<0.005						0.0003 (J)	
1/4/2017			<0.005		<0.005		0.0003 (J)	
1/5/2017	<0.005							
4/4/2017	0.0002 (J)		7E-05 (J)		9E-05 (J)			
4/6/2017							0.0003 (J)	
7/11/2017			<0.005				0.0002 (J)	
7/13/2017	0.0003 (J)				7E-05 (J)			
10/2/2017			<0.005					
10/3/2017	<0.005				0.0001 (J)			
10/4/2017							0.0008 (J)	
1/9/2018					9E-05 (J)			
1/10/2018	8E-05 (J)		0.0002 (J)					
1/11/2018							0.0009 (J)	
7/9/2018			<0.005					
7/10/2018	<0.005				<0.005			
7/11/2018							0.001 (J)	
1/17/2019						<0.005		
1/18/2019								0.0012 (J)
1/21/2019		<0.005		<0.005				
3/25/2019				<0.005				
3/26/2019						<0.005		
3/27/2019								0.00047 (J)
7/30/2019		0.0002 (J)						
8/27/2019		<0.005						0.003 (J)
8/28/2019				6.5E-05 (J)		0.00018 (J)		
10/8/2019						0.00016 (J)		
10/9/2019		6.4E-05 (J)		0.00018 (J)				0.00032 (J)

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R
9/29/2000	<0.005		0.0083		0.017		<0.025	
11/21/2000	<0.005		0.0052		<0.005		<0.025	
1/20/2001	<0.005		<0.005		0.011		<0.025	
3/14/2001	<0.005		<0.005		0.026		<0.025	
7/16/2001	<0.005		0.011		0.043		<0.025	
11/1/2001	<0.005		<0.005		0.075		<0.025	
4/25/2002	<0.005		<0.005		<0.005		<0.025	
11/20/2002					0.057		0.0057 (J)	
6/6/2003	<0.005						0.013	
12/12/2003	<0.005		0.0072		<0.005		<0.025	
5/26/2004	<0.005		0.0055		0.011		<0.025	
12/7/2004	0.0051		<0.005		0.038		<0.025	
6/21/2005	<0.005		<0.005		0.036		<0.025	
12/12/2005	<0.005		<0.005		<0.005		<0.025	
6/27/2006	<0.005				<0.005		<0.025	
12/4/2006	<0.005				<0.005		<0.025	
6/23/2007	<0.005		<0.005		<0.005		<0.025	
12/11/2007	<0.005		<0.005		<0.005		<0.025	
6/23/2008	<0.005							
6/24/2008					<0.005		0.02	
12/4/2008	<0.005							
12/5/2008			<0.005		<0.005		<0.025	
7/7/2009			<0.005		<0.005		<0.025	
7/8/2009	<0.005							
12/21/2009	<0.005		<0.005		<0.005		<0.025	
6/20/2010	<0.005				<0.005		<0.025	
6/21/2010			<0.005					
1/6/2011					<0.005			
1/7/2011	<0.005		<0.005				<0.025	
7/7/2011					<0.005		<0.025	
7/8/2011	<0.005		<0.005					
1/17/2012					<0.005			
1/18/2012	<0.005		<0.005				<0.025	
7/9/2012					<0.005			
7/10/2012	<0.005		<0.005				<0.025	
1/17/2013					<0.005			
1/18/2013	<0.005		<0.005				<0.025	
7/16/2013					<0.005			
7/17/2013	<0.005		<0.005				<0.025	
1/13/2014					<0.005			
1/14/2014	<0.005		0.005				<0.025	
7/9/2014	<0.005		<0.005		<0.005		<0.025	
1/12/2015			<0.005					
1/13/2015					<0.005			
1/14/2015	<0.005						<0.025	
7/16/2015			<0.005		<0.005			
7/17/2015	<0.005						<0.025	
1/18/2016	<0.005		0.0055 (J)		<0.005		<0.025	
7/27/2016					<0.005			
7/28/2016	<0.005						<0.025	
7/29/2016			0.003 (J)					
8/30/2016					<0.005		<0.025	

Prediction Limit

Constituent: Lead Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R
8/31/2016	0.0007 (J)							
10/26/2016			0.0057		0.0002 (J)		<0.025	
10/27/2016	<0.005							
1/3/2017					0.0001 (J)			
1/5/2017							0.0003 (J)	
1/6/2017	<0.005		0.0053					
4/4/2017			0.0092					
4/6/2017	0.0001 (J)				0.0003 (J)		0.0002 (J)	
7/12/2017	<0.005		0.006		0.0002 (J)		0.0002 (J)	
10/3/2017					0.0002 (J)		0.0001 (J)	
10/4/2017	9E-05 (J)		0.0057					
1/9/2018							0.0003 (J)	
1/10/2018					0.0003 (J)			
1/11/2018	0.0002 (J)		0.0085					
7/10/2018					<0.005		<0.025	
7/11/2018	<0.005		0.0029 (J)					
1/16/2019				<0.005		<0.005		<0.025
1/18/2019		<0.005						
3/25/2019				<0.005				
3/26/2019						<0.005		<0.025
3/27/2019		<0.005						
8/27/2019				0.001 (J)				0.0011 (J)
8/28/2019		6.1E-05 (J)				0.0011 (J)		
10/9/2019		<0.005		0.00041 (J)		0.0025 (J)		0.00033 (J)

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
9/29/2000	<0.013		<0.01		<0.01		<0.01	
11/21/2000	<0.013				<0.01		<0.01	
1/20/2001	<0.013		<0.01		0.017		<0.01	
3/14/2001	<0.013		<0.01		<0.01		<0.01	
7/16/2001	<0.013		<0.01		<0.01		<0.01	
11/1/2001	<0.013		<0.01		<0.01		<0.01	
4/25/2002	<0.013		<0.01		0.012		<0.01	
11/20/2002			<0.01				<0.01	
6/6/2003	<0.013		<0.01				<0.01	
12/12/2003	<0.013		<0.01		0.013		<0.01	
5/26/2004	<0.013		<0.01		0.017		<0.01	
12/7/2004	<0.013		<0.01		0.011		<0.01	
6/21/2005	<0.013		<0.01		0.0088		<0.01	
12/12/2005	<0.013		<0.01		0.011		<0.01	
4/4/2006			<0.01					
6/27/2006	<0.013		<0.01		<0.01		<0.01	
8/30/2006			<0.01					
12/4/2006	<0.013		<0.01		<0.01		<0.01	
2/15/2007			<0.01					
6/23/2007	<0.013		<0.01		<0.01		<0.01	
9/11/2007			<0.01					
12/11/2007	<0.013		<0.01		<0.01		<0.01	
3/11/2008			<0.01					
6/23/2008	<0.013		<0.01				<0.01	
6/24/2008					<0.01			
11/3/2008			<0.01					
12/4/2008	<0.013		<0.01				<0.01	
12/5/2008					<0.01			
3/25/2009			<0.01					
7/7/2009	<0.013		<0.01		<0.01			
7/8/2009							<0.01	
9/14/2009			<0.01					
12/20/2009	<0.013		<0.01		<0.01			
12/21/2009							<0.01	
3/4/2010			<0.01					
6/20/2010	<0.013		<0.01		<0.01		<0.01	
9/14/2010			<0.01					
1/6/2011					<0.01		<0.01	
1/7/2011	<0.013		<0.01					
4/15/2011			<0.01					
7/7/2011	<0.013		<0.01		<0.01		<0.01	
9/25/2011			<0.01					
1/17/2012	<0.013		<0.01		<0.01		0.023	
7/9/2012	<0.013				<0.01		0.016	
7/10/2012			<0.01					
10/9/2012			<0.01					
1/17/2013					<0.01		0.033	
1/18/2013	0.009		<0.01					
4/5/2013			<0.01					
7/16/2013					0.012		0.0068	
7/17/2013	0.011		<0.01					
10/11/2013			<0.01					

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
1/13/2014	0.012				<0.01		0.036	
1/14/2014			<0.01					
4/3/2014			<0.01					
7/8/2014							0.017	
7/9/2014	0.011		<0.01		<0.01			
10/24/2014			<0.01					
1/13/2015	0.0092				<0.01		0.027	
1/14/2015			<0.01					
5/10/2015			<0.01					
7/16/2015	0.014				<0.01		<0.01	
7/17/2015			<0.01					
10/6/2015			<0.01					
1/17/2016					0.023			
1/18/2016	0.023		<0.01					
1/19/2016							0.023	
4/26/2016			<0.01					
7/26/2016							0.0056 (J)	
7/27/2016	0.0323				0.002 (J)			
7/28/2016			0.001 (J)					
8/30/2016			<0.01		0.002 (J)			
8/31/2016							0.0084 (J)	
9/1/2016	0.0438							
10/24/2016			0.0013 (J)					
10/25/2016	0.031				0.0022 (J)			
10/26/2016							0.0052 (J)	
1/3/2017			<0.01					
1/4/2017					0.0016 (J)		0.0062 (J)	
1/6/2017	0.0324							
4/3/2017			<0.01					
4/4/2017					0.0052 (J)			
4/6/2017	0.0188 (J)						0.0195	
7/11/2017			<0.01				<0.01	
7/12/2017					0.0024 (J)			
7/13/2017	0.0118							
10/2/2017			<0.01					
10/3/2017					<0.01		0.0079 (J)	
10/4/2017	0.0195							
1/9/2018			<0.01					
1/10/2018					0.0018 (J)			
1/11/2018							0.0054 (J)	
7/9/2018			<0.01					
7/10/2018					0.0026 (J)			
7/11/2018							0.0022 (J)	
1/16/2019		0.0071 (J)		<0.01		0.0018 (J)		
1/17/2019								<0.01
3/25/2019				<0.01				
3/26/2019						0.0023 (J)		
3/27/2019								0.01 (J)
8/26/2019				<0.01				
8/27/2019						0.0016 (J)		<0.01
10/7/2019				<0.01				
10/8/2019		0.0072 (J)						<0.01

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

10/9/2019	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
						0.0024 (J)		

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
9/29/2000	<0.01		<0.005		<0.01		<0.005	
11/21/2000	<0.01		0.052		<0.01		<0.005	
1/20/2001	<0.01		0.053		<0.01		<0.005	
3/14/2001	<0.01		0.049		<0.01		<0.005	
7/16/2001	<0.01		0.038		<0.01		<0.005	
11/1/2001	<0.01		0.022		<0.01		<0.005	
4/25/2002	<0.01				<0.01		<0.005	
11/20/2002	<0.01		0.018		0.0094		<0.005	
6/6/2003	<0.01		<0.005					
12/12/2003	<0.01		<0.005					
5/26/2004	<0.01		0.023		<0.01		0.0053	
12/7/2004	<0.01		0.019		<0.01		<0.005	
6/21/2005	<0.01		0.019		<0.01		<0.005	
12/12/2005	<0.01		0.0095		<0.01		<0.005	
4/4/2006			0.033				<0.005	
6/27/2006	<0.01		<0.005		<0.01		<0.005	
8/30/2006			<0.005				<0.005	
12/4/2006	<0.01		0.032		<0.01		<0.005	
2/15/2007			0.034				<0.005	
6/23/2007	<0.01		<0.005		<0.01		<0.005	
9/11/2007			0.022				<0.005	
12/11/2007	<0.01		0.045		<0.01		<0.005	
3/11/2008			0.02				<0.005	
6/23/2008	<0.01							
6/24/2008			<0.005		<0.01		<0.005	
11/3/2008			0.052				<0.005	
12/4/2008	<0.01		0.054					
12/5/2008					<0.01		<0.005	
3/25/2009			0.072				<0.005	
7/8/2009	<0.01		0.021		<0.01		<0.005	
9/14/2009			0.015				<0.005	
12/20/2009			0.072		<0.01		<0.005	
12/21/2009	<0.01							
3/4/2010			0.083				<0.005	
6/20/2010	<0.01		0.1		<0.01			
6/21/2010							<0.005	
9/14/2010			0.085				<0.005	
1/7/2011	<0.01		0.028		<0.01		<0.005	
4/15/2011			<0.005				<0.005	
7/7/2011	<0.01		<0.005		<0.01		<0.005	
9/25/2011			0.02				<0.005	
1/17/2012	<0.01		0.016		<0.01			
1/18/2012							<0.005	
4/4/2012			0.0156				<0.005	
7/9/2012	<0.01		<0.005					
7/10/2012							<0.005	
10/9/2012			0.0094				<0.005	
1/17/2013	<0.01							
1/18/2013			0.0067				<0.005	
4/5/2013			0.0077				<0.005	
7/16/2013	<0.01							
7/17/2013			0.01		<0.01		<0.005	

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
10/11/2013			0.0087				0.0069	
1/13/2014	<0.01				<0.01			
1/14/2014			0.012				<0.005	
4/3/2014			0.022				<0.005	
7/8/2014	<0.01							
7/9/2014			0.0089		<0.01		0.005	
10/24/2014			0.017				<0.005	
1/13/2015	<0.01				<0.01			
1/14/2015			<0.005				<0.005	
5/10/2015			<0.005					
5/11/2015							<0.005	
7/16/2015	<0.01				<0.01		<0.005	
7/17/2015			<0.005					
10/6/2015			<0.005				0.0073	
1/17/2016			<0.005		<0.01		0.0031 (J)	
1/18/2016	<0.01							
4/26/2016			0.00428 (J)				0.00497 (J)	
7/27/2016	0.0025 (J)		0.0038 (J)		<0.01			
7/28/2016							0.0076 (J)	
8/31/2016	0.0019 (J)							
9/1/2016			0.0056 (J)		<0.01		0.0052 (J)	
10/25/2016			0.0023 (J)		<0.01		0.0085 (J)	
10/26/2016	0.002 (J)							
1/4/2017	<0.01						0.0048 (J)	
1/5/2017			0.0038 (J)		<0.01			
4/3/2017					<0.01			
4/4/2017			0.0064 (J)					
4/5/2017	<0.01						0.0068 (J)	
7/10/2017	<0.01							
7/11/2017			0.0044 (J)		<0.01			
7/12/2017							0.0048 (J)	
10/2/2017			0.004 (J)		<0.01			
10/3/2017							0.0051 (J)	
10/4/2017	<0.01							
1/9/2018			0.0019 (J)		0.0019 (J)			
1/10/2018							0.0018 (J)	
1/11/2018	<0.01							
7/9/2018			0.0029 (J)					
7/10/2018					0.0086 (J)		0.0045 (J)	
7/11/2018	<0.01							
1/16/2019				0.0016 (J)				
1/17/2019		<0.01				0.0029 (J)		0.0031 (J)
3/26/2019				0.0022 (J)		0.0074 (J)		0.0033 (J)
3/27/2019		<0.01						
8/27/2019		<0.01		0.0035 (J)		0.0092 (J)		
8/28/2019								0.004 (J)
10/8/2019				0.0026 (J)		0.014		0.0023 (J)
10/9/2019		<0.01						

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21
9/29/2000	<0.01							
11/21/2000	<0.01		<0.01					
1/20/2001	<0.01		<0.01					
3/14/2001	<0.01		<0.01					
7/16/2001	<0.01		<0.01					
11/1/2001	<0.01		<0.01					
4/25/2002	<0.01		<0.01					
11/20/2002	<0.01		<0.01					
6/6/2003	<0.01		<0.01					
12/12/2003	<0.01		<0.01					
5/26/2004	<0.01		0.005					
12/7/2004	<0.01		<0.01					
6/21/2005	<0.01		<0.01					
12/12/2005	<0.01		<0.01					
6/27/2006	<0.01		<0.01					
12/4/2006	<0.01		<0.01					
6/23/2007	<0.01		<0.01					
12/11/2007	<0.01		<0.01					
6/24/2008	<0.01		<0.01					
12/4/2008			<0.01					
12/5/2008	<0.01							
7/8/2009	<0.01		<0.01					
12/20/2009			<0.01					
12/21/2009	<0.01							
6/20/2010			<0.01					
6/21/2010	<0.01				<0.01		0.048	
1/6/2011			<0.01					
1/7/2011	<0.01				<0.01		0.014	
7/7/2011					<0.01			
7/8/2011	<0.01				<0.01		0.018	
1/17/2012			<0.01					
1/18/2012	<0.01				<0.01		<0.013	
7/9/2012			<0.01					
7/10/2012	<0.01				<0.01		0.02	
1/17/2013			<0.01					
1/18/2013	<0.01				0.005		0.015	
7/17/2013	<0.01		<0.01		<0.01		0.037	
1/13/2014			<0.01					
1/14/2014	<0.01				<0.01		0.043	
7/9/2014	<0.01		<0.01				0.023	
7/10/2014					<0.01			
1/12/2015					<0.01			
1/13/2015			<0.01					
1/14/2015	<0.01						0.022	
7/16/2015			<0.01					
7/17/2015							0.033	
7/18/2015	<0.01				<0.01			
1/17/2016			<0.01		<0.01		0.021	
1/18/2016	<0.01							
7/27/2016			0.002 (J)					
7/28/2016					<0.01		0.0341	
7/29/2016	0.0011 (J)							

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21
8/31/2016			<0.01					
9/1/2016	0.0012 (J)				<0.01		0.0297	
10/25/2016					0.0014 (J)		0.0095 (J)	
10/26/2016	0.0013 (J)		0.0035 (J)					
1/4/2017					0.0014 (J)		0.022	
1/5/2017	0.0012 (J)		<0.01					
4/4/2017			<0.01		<0.01		0.0236	
4/5/2017	<0.01							
7/11/2017					<0.01			
7/13/2017	0.0018 (J)		<0.01				0.013	
10/2/2017					<0.01			
10/3/2017			<0.01				0.01 (J)	
10/4/2017	0.0042 (J)							
1/9/2018							0.0162	
1/10/2018			<0.01		<0.01			
1/11/2018	<0.01							
7/9/2018					<0.01			
7/10/2018			<0.01				0.016	
7/11/2018	0.0016 (J)							
1/16/2019		<0.01						
1/17/2019								0.011
1/21/2019				<0.01		0.0014 (J)		
3/25/2019						<0.01		
3/26/2019		<0.01						0.022
7/30/2019				<0.01				
8/27/2019				<0.01				
8/28/2019		<0.01				0.0014 (J)		0.019
10/8/2019								0.019
10/9/2019		<0.01		<0.01		<0.01		

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R
9/29/2000			<0.01		<0.01		<0.01	
11/21/2000			<0.01		<0.01		<0.01	
1/20/2001			<0.01				<0.01	
3/14/2001			<0.01		<0.01		<0.01	
7/16/2001			<0.01				<0.01	
11/1/2001			<0.01				<0.01	
4/25/2002			<0.01		0.01		<0.01	
11/20/2002			<0.01				0.0064	
6/6/2003			<0.01				0.011	
12/12/2003			<0.01				<0.01	
5/26/2004			<0.01				0.007	
12/7/2004			<0.01				<0.01	
6/21/2005			0.0062		0.0087		0.0063	
12/12/2005			<0.01				<0.01	
6/27/2006			<0.01		<0.01		<0.01	
12/4/2006			<0.01		<0.01		<0.01	
6/23/2007			<0.01		<0.01		<0.01	
12/11/2007			<0.01		<0.01		<0.01	
6/23/2008			<0.01					
6/24/2008					<0.01		<0.01	
12/4/2008			<0.01					
12/5/2008					<0.01		<0.01	
7/7/2009					<0.01		<0.01	
7/8/2009			<0.01					
12/21/2009			<0.01		<0.01		<0.01	
6/20/2010			<0.01				<0.01	
6/21/2010	<0.01				<0.01			
1/6/2011							<0.01	
1/7/2011	<0.01		<0.01		<0.01			
7/7/2011							<0.01	
7/8/2011	<0.01		<0.01		<0.01			
1/17/2012							<0.01	
1/18/2012	<0.01		<0.01		<0.01			
7/9/2012							<0.01	
7/10/2012	<0.01		<0.01		<0.01			
1/17/2013							<0.01	
1/18/2013	<0.01		<0.01		<0.01			
7/16/2013							<0.01	
7/17/2013	<0.01		<0.01		<0.01			
1/13/2014							<0.01	
1/14/2014	<0.01		<0.01		<0.01			
7/9/2014			<0.01		<0.01		<0.01	
7/10/2014	<0.01							
1/12/2015					<0.01			
1/13/2015							<0.01	
1/14/2015	<0.01		<0.01					
7/16/2015					<0.01		<0.01	
7/17/2015			<0.01					
7/18/2015	<0.01							
1/18/2016	<0.01		<0.01		<0.01		<0.01	
7/27/2016							<0.01	
7/28/2016			<0.01					

Prediction Limit

Constituent: Selenium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R
7/29/2016	0.0022 (J)				0.0036 (J)			
8/30/2016							<0.01	
8/31/2016	0.0014 (J)		<0.01					
9/1/2016					0.0067 (J)			
10/26/2016	0.001 (J)				0.0042 (J)		<0.01	
10/27/2016			<0.01					
1/3/2017							<0.01	
1/4/2017	<0.01							
1/6/2017			<0.01		0.0042 (J)			
4/4/2017					0.0043 (J)			
4/6/2017	<0.01		<0.01				<0.01	
7/11/2017	<0.01							
7/12/2017			<0.01		0.0033 (J)		<0.01	
10/3/2017							<0.01	
10/4/2017	0.0023 (J)		<0.01		0.0038 (J)			
1/10/2018							<0.01	
1/11/2018	<0.01		<0.01		0.0029 (J)			
7/10/2018							0.0018 (J)	
7/11/2018	<0.01		<0.01		0.0015 (J)			
1/16/2019						<0.01		<0.01
1/18/2019		<0.01		<0.01				
3/25/2019						<0.01		
3/26/2019								<0.01
3/27/2019		<0.01		<0.01				
8/27/2019		<0.01				<0.01		
8/28/2019				<0.01				0.0033 (J)
10/9/2019		<0.01		<0.01		<0.01		0.0073 (J)

Prediction Limit

Constituent: Selenium, Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1
9/29/2000	<0.05		<0.0025		<0.01		<0.01	
11/21/2000	<0.05		<0.0025				<0.01	
1/20/2001	<0.05		<0.0025		<0.01		<0.01	
3/14/2001	<0.05		<0.0025		<0.01		<0.01	
7/16/2001	<0.05		<0.0025		<0.01		<0.01	
11/1/2001	<0.05		<0.0025		<0.01		<0.01	
4/25/2002	<0.05		<0.0025		<0.01		<0.01	
11/20/2002	0.008				<0.01		0.0069	
6/6/2003	0.0066		0.047					
12/12/2003	0.0056		0.0086				<0.01	
5/26/2004	0.0084		<0.0025		<0.01		<0.01	
12/7/2004	<0.05		<0.0025		<0.01		<0.01	
6/21/2005	0.0062		<0.0025		<0.01		<0.01	
12/12/2005	<0.05		<0.0025		<0.01		<0.01	
4/4/2006					<0.01			
6/27/2006	<0.05		<0.0025		<0.01		0.0029	
8/30/2006					<0.01			
12/4/2006	<0.05		0.0027		<0.01		0.0047	
2/15/2007					<0.01			
6/23/2007	<0.05		0.0027		<0.01		0.0029	
9/11/2007					<0.01			
12/11/2007	<0.05		0.0033		<0.01		<0.01	
3/11/2008					<0.01			
6/23/2008			0.0074		<0.01			
6/24/2008	<0.05						<0.01	
11/3/2008					<0.01			
12/4/2008			0.0084		<0.01			
12/5/2008	<0.05						<0.01	
3/25/2009					<0.01			
7/7/2009	<0.05		0.023		<0.01		<0.01	
9/14/2009					<0.01			
12/20/2009			0.007		<0.01		<0.01	
12/21/2009	<0.05							
3/4/2010					<0.01			
6/20/2010	<0.05		0.0047		<0.01		0.0037	
9/14/2010					<0.01			
1/6/2011							<0.01	
1/7/2011	<0.05		0.018		<0.01			
4/15/2011					<0.01			
7/7/2011	<0.05		0.019		<0.01		0.0045	
9/25/2011					<0.01			
1/17/2012			0.0298		<0.01		<0.01	
1/18/2012	<0.05							
4/4/2012					<0.01			
7/9/2012			0.14				0.0026	
7/10/2012	<0.05				<0.01			
10/9/2012					<0.01			
1/17/2013							<0.01	
1/18/2013	<0.05		0.21		<0.01			
4/5/2013					<0.01			
7/16/2013							<0.01	
7/17/2013	<0.05		0.18		<0.01			

Prediction Limit

Constituent: Selenium, Vanadium Analysis Run 2/17/2020 3:57 PM View: Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1
10/11/2013					<0.01			
1/13/2014			0.24				<0.01	
1/14/2014	<0.05				<0.01			
4/3/2014					0.0015 (J)			
7/9/2014	<0.05		0.22		0.0012 (J)		0.0041 (J)	
10/24/2014					<0.01			
1/13/2015			0.19				0.0029 (J)	
1/14/2015	<0.05				<0.01			
5/10/2015					<0.01			
7/16/2015			0.23				0.0034 (J)	
7/17/2015	<0.05				<0.01			
10/6/2015					0.0012 (J)			
1/17/2016							0.0046 (J)	
1/18/2016	<0.05		0.41		0.00079 (J)			
4/26/2016					<0.01			
7/27/2016			0.397				0.0064 (J)	
7/28/2016	<0.05				<0.01			
8/30/2016	<0.05							
10/24/2016					<0.01			
10/25/2016			0.425					
10/26/2016	<0.05							
1/3/2017					<0.01			
1/4/2017							<0.01	
1/5/2017	0.0014 (J)							
1/6/2017			0.41					
4/3/2017					<0.01			
4/4/2017							0.0061 (J)	
4/6/2017	<0.05		0.297					
7/11/2017					<0.01			
7/12/2017	<0.05						0.0067 (J)	
7/13/2017			0.194					
10/2/2017					<0.01			
10/3/2017	<0.05							
10/4/2017			0.316					
1/9/2018	<0.05		0.194		0.0014 (J)			
1/10/2018							0.0056 (J)	
7/9/2018					<0.01			
7/10/2018	0.0016 (J)						0.0056 (J)	
7/11/2018			0.15					
1/16/2019		<0.05		0.16		<0.01		0.0043 (J)
3/25/2019				0.18		<0.01		
3/26/2019		0.05 (J)						0.0051 (J)
8/27/2019		0.0033 (J)						
10/7/2019						<0.01		
10/8/2019				0.11				
10/9/2019		<0.05						<0.01

Prediction Limit

Constituent: Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14
7/8/2014	0.0024 (J)		0.0034 (J)		0.002 (J)			
7/9/2014							0.032	
10/24/2014							0.045	
1/13/2015	0.0023 (J)		<0.01		0.0015 (J)			
1/14/2015							0.031	
5/10/2015							0.013	
7/16/2015	0.002 (J)		0.0049 (J)		<0.01			
7/17/2015							0.028	
10/6/2015							0.02	
1/17/2016							0.028	
1/18/2016			0.0058		0.0011 (J)			
1/19/2016	0.0025 (J)							
4/26/2016							0.0181	
7/26/2016	0.0027 (J)				<0.01			
7/27/2016			0.0058 (J)				0.0189	
10/25/2016							0.0206	
1/4/2017	<0.01		<0.01					
1/5/2017					<0.01		0.0172	
4/4/2017							0.0235	
4/5/2017			0.0039 (J)					
4/6/2017	0.0025 (J)				<0.01			
7/10/2017			0.0062 (J)					
7/11/2017	0.0027 (J)						0.0136	
7/12/2017					0.0016 (J)			
10/2/2017							0.0175	
1/9/2018							0.0103	
1/10/2018					0.0019 (J)			
1/11/2018	0.0019 (J)		0.0025 (J)					
7/9/2018							0.0078 (J)	
7/11/2018	0.0021 (J)		0.0059 (J)		0.0097 (J)			
1/16/2019						<0.01		0.0043 (J)
1/17/2019		0.0021 (J)		<0.01				
3/26/2019						0.0029 (J)		0.0063 (J)
3/27/2019		0.0023 (J)		0.0049 (J)				
10/8/2019		<0.01				<0.01		<0.01
10/9/2019				0.0021 (J)				

Prediction Limit

Constituent: Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2
9/29/2000	<0.01		<0.01		<0.01			
11/21/2000	<0.01		<0.01		<0.01		<0.01	
1/20/2001	<0.01		<0.01		<0.01		<0.01	
3/14/2001	<0.01		<0.01		<0.01		<0.01	
7/16/2001	<0.01		<0.01		<0.01		<0.01	
11/1/2001	<0.01		<0.01		<0.01		<0.01	
4/25/2002	<0.01		<0.01		<0.01		<0.01	
11/20/2002	0.0099		0.0069		<0.01		<0.01	
6/6/2003					<0.01		<0.01	
12/12/2003			0.012		<0.01		<0.01	
5/26/2004	<0.01		<0.01		<0.01		<0.01	
12/7/2004	<0.01		<0.01		<0.01		<0.01	
6/21/2005	<0.01		<0.01		<0.01		<0.01	
12/12/2005	<0.01		<0.01		<0.01		<0.01	
4/4/2006			<0.01					
6/27/2006	<0.01		<0.01		0.0025		<0.01	
8/30/2006			<0.01					
12/4/2006	<0.01		0.0031		<0.01		<0.01	
2/15/2007			0.0025					
6/23/2007	<0.01		0.0032		<0.01		<0.01	
9/11/2007			<0.01					
12/11/2007	<0.01		<0.01		<0.01		<0.01	
3/11/2008			<0.01					
6/24/2008	<0.01		<0.01		<0.01		<0.01	
11/3/2008			0.0032					
12/4/2008							<0.01	
12/5/2008	<0.01		<0.01		<0.01			
3/25/2009			<0.01					
7/8/2009	<0.01		0.0036		<0.01		<0.01	
9/14/2009			0.0026					
12/20/2009	<0.01		0.0031				<0.01	
12/21/2009					<0.01			
3/4/2010			<0.01					
6/20/2010	<0.01						<0.01	
6/21/2010			0.0025		<0.01			
9/14/2010			0.0035					
1/6/2011							<0.01	
1/7/2011	<0.01		0.0036		<0.01			
4/15/2011			<0.01					
7/7/2011	0.0036		0.003					
7/8/2011					0.0031			
9/25/2011			0.0037					
1/17/2012	<0.01						<0.01	
1/18/2012			<0.01		<0.01			
4/4/2012			<0.01					
7/9/2012	0.0059						<0.01	
7/10/2012			0.0026		<0.01			
10/9/2012			0.007					
1/17/2013							<0.01	
1/18/2013	<0.01		<0.01		<0.01			
4/5/2013			<0.01					
7/17/2013	<0.01		<0.01		<0.01		<0.01	

Prediction Limit

Constituent: Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2
10/11/2013			<0.01					
1/13/2014	<0.01						<0.01	
1/14/2014			<0.01		<0.01			
4/3/2014			0.0032 (J)					
7/9/2014	0.0012 (J)		0.0031 (J)		0.0012 (J)		<0.01	
10/24/2014			0.0028 (J)					
1/13/2015	0.0013 (J)						<0.01	
1/14/2015			0.0034 (J)		0.002 (J)			
5/11/2015			0.0026 (J)					
7/16/2015	<0.01		0.0028 (J)				<0.01	
7/18/2015					<0.01			
10/6/2015			0.0016 (J)					
1/17/2016	0.0013 (J)		0.0029 (J)				<0.01	
1/18/2016					0.0019 (J)			
4/26/2016			0.00296 (J)					
7/27/2016	<0.01						<0.01	
7/28/2016			0.0026 (J)					
7/29/2016					0.0031 (J)			
10/25/2016	<0.01		<0.01					
1/4/2017			<0.01					
1/5/2017	<0.01				<0.01		<0.01	
4/3/2017	0.002 (J)							
4/4/2017							<0.01	
4/5/2017			0.0033 (J)		0.0029 (J)			
7/11/2017	0.0022 (J)							
7/12/2017			0.0037 (J)					
7/13/2017					0.0037 (J)		<0.01	
10/2/2017	0.0022 (J)							
10/3/2017			0.0036 (J)					
1/9/2018	0.0021 (J)							
1/10/2018			0.0029 (J)				<0.01	
1/11/2018					0.0026 (J)			
7/10/2018	0.0025 (J)		0.0025 (J)				<0.01	
7/11/2018					0.0032 (J)			
1/16/2019						<0.01		
1/17/2019		<0.01		0.0021 (J)				
1/21/2019								0.0024 (J)
3/26/2019		0.0026 (J)		0.0038 (J)		0.0024 (J)		
7/30/2019							<0.01	
10/8/2019		<0.01		<0.01				
10/9/2019						<0.01		<0.01

Prediction Limit

Constituent: Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWC-9	GWC-9
9/29/2000							<0.01	
11/21/2000							<0.01	
1/20/2001							<0.01	
3/14/2001							<0.01	
7/16/2001							<0.01	
11/1/2001							<0.01	
4/25/2002							<0.01	
11/20/2002							0.014	
6/6/2003							<0.01	
12/12/2003							<0.01	
5/26/2004							<0.01	
12/7/2004							<0.01	
6/21/2005							<0.01	
12/12/2005							<0.01	
6/27/2006							<0.01	
12/4/2006							<0.01	
6/23/2007							<0.01	
12/11/2007							<0.01	
6/23/2008							<0.01	
12/4/2008							<0.01	
7/8/2009							0.0029	
12/21/2009							<0.01	
6/20/2010							<0.01	
6/21/2010	<0.01		<0.01		<0.01			
1/7/2011	0.0029		0.0031		<0.01		<0.01	
7/7/2011	<0.01							
7/8/2011	0.0046		0.0048		<0.01		<0.01	
1/18/2012	<0.01		<0.01		<0.01		<0.01	
7/10/2012	0.0081		<0.01		<0.01		<0.01	
1/18/2013	0.0063		<0.01		<0.01		<0.01	
7/17/2013	<0.01		<0.01		<0.01		<0.01	
1/14/2014	<0.01		0.006		<0.01		<0.01	
7/9/2014			0.0019 (J)				0.0016 (J)	
7/10/2014	0.0026 (J)				0.0053			
1/12/2015	0.0031 (J)							
1/14/2015			0.0037 (J)		0.0013 (J)		<0.01	
7/17/2015			0.0028 (J)				0.0029 (J)	
7/18/2015	0.003 (J)				0.0043 (J)			
1/17/2016	0.0025 (J)		0.0039 (J)					
1/18/2016					<0.01		<0.01	
7/28/2016	0.0024 (J)		0.0022 (J)				<0.01	
7/29/2016					0.0052 (J)			
10/25/2016	<0.01							
1/4/2017	<0.01		<0.01		<0.01			
1/6/2017							<0.01	
4/4/2017	0.0024 (J)		0.003 (J)					
4/6/2017					<0.01		<0.01	
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)					

Prediction Limit

Constituent: Vanadium Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22	GWC-9	GWC-9
1/10/2018	0.0026 (J)							
1/11/2018					0.0012 (J)		<0.01	
7/9/2018	<0.01							
7/10/2018			0.0031 (J)					
7/11/2018					0.0025 (J)		<0.01	
1/17/2019				0.0022 (J)				
1/18/2019						<0.01		<0.01
1/21/2019		0.0031 (J)						
3/25/2019		0.0024 (J)						
3/26/2019				0.0041 (J)				
3/27/2019						0.002 (J)		<0.01
10/8/2019				<0.01				
10/9/2019		<0.01				<0.01		<0.01

Prediction Limit

Constituent: Vanadium, Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7
9/29/2000	0.06		0.038		0.12		<0.0025	
11/21/2000	0.068		0.013		0.13		<0.0025	
1/20/2001	0.12		0.038		0.14		<0.0025	
3/14/2001	0.08				0.13		<0.0025	
7/16/2001	0.11				0.18		<0.0025	
11/1/2001	0.079				0.12		<0.0025	
4/25/2002	0.11				0.15		<0.0025	
11/20/2002	0.15				0.15			
6/6/2003	0.12				0.11			
12/12/2003	0.13		0.014		0.089			
5/26/2004	0.095				0.09		0.013	
12/7/2004	0.067		0.054		0.072		<0.0025	
6/21/2005	0.062		0.038		0.04		<0.0025	
12/12/2005	0.09		0.0056		0.021		0.014	
6/27/2006	0.083		0.0043		0.02		0.01	
12/4/2006	0.084		0.0044		0.022		0.0065	
6/23/2007	0.081		0.0039		0.027		0.0049	
12/11/2007	0.067		0.0029		0.017		0.0043	
6/23/2008							0.0025	
6/24/2008	0.059		0.003		0.053			
12/4/2008							0.0025	
12/5/2008	0.054		<0.01		0.0078			
7/7/2009	0.038		<0.01		0.012		<0.0025	
12/20/2009							0.0031	
12/21/2009	0.06		<0.01		0.011			
6/20/2010			<0.01		0.0083		<0.0025	
6/21/2010	0.036							
1/6/2011			0.0067					
1/7/2011	0.043				0.0079		<0.0025	
7/7/2011			0.019		0.007		0.0031	
7/8/2011	0.044							
1/17/2012			0.021				0.004	
1/18/2012	0.045				0.0116			
7/9/2012			0.032				0.0096	
7/10/2012	0.048				0.0096			
1/17/2013			0.034					
1/18/2013	0.049				<0.005		0.051	
7/16/2013			0.021					
7/17/2013	0.05				<0.005		0.042	
1/13/2014			0.008				0.0025	
1/14/2014	0.067				<0.005			
7/9/2014	0.055		0.0052		0.0039 (J)		0.064	
1/12/2015	0.066							
1/13/2015			0.0036 (J)				0.066	
1/14/2015					0.005			
7/16/2015	0.045		0.004 (J)				0.036	
7/17/2015					0.0045 (J)			
1/18/2016	0.049		0.0069		0.0044 (J)		0.035	
7/27/2016			0.0046 (J)				0.0529	
7/28/2016					0.0038 (J)			
7/29/2016	0.0388							
10/25/2016							0.0035 (J)	

Prediction Limit

Constituent: Vanadium, Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7
1/3/2017			<0.01					
1/5/2017					0.0077 (J)			
1/6/2017	0.0341						0.0235	
4/4/2017	0.0371							
4/6/2017			0.0063 (J)		0.0069 (J)		0.0829	
7/12/2017	0.0399		0.0064 (J)		0.0098 (J)			
7/13/2017							0.0853	
10/4/2017							0.0263	
1/9/2018					0.0086 (J)		0.0665	
1/10/2018			0.0077 (J)					
1/11/2018	0.0327							
7/10/2018			0.016		0.0098 (J)			
7/11/2018	0.02						0.02 (J)	
1/16/2019		0.0022 (J)		0.0033 (J)		0.077		0.014 (J)
3/25/2019		0.004 (J)						
3/26/2019				0.0058 (J)		0.086		
10/8/2019								0.095
10/9/2019		<0.01		0.033 (J)		0.018 (J)		

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12
9/29/2000	<0.01		<0.01		<0.01			
11/21/2000			<0.01		<0.01			
1/20/2001			<0.01		<0.01			
3/14/2001	<0.01		<0.01		<0.01			
7/16/2001	<0.01		<0.01		<0.01		0.053	
11/1/2001	<0.01		<0.01		<0.01		0.022	
4/25/2002	<0.01		<0.01		<0.01			
11/20/2002			<0.01		<0.01		0.045	
6/6/2003			0.011		<0.01		0.042	
12/12/2003			<0.01		0.013		<0.0025	
5/26/2004	<0.01		<0.01		<0.01		<0.0025	
12/7/2004	<0.01		<0.01				<0.0025	
6/21/2005	<0.01		<0.01		<0.01		<0.0025	
12/12/2005	0.01		<0.01		<0.01		<0.0025	
4/4/2006	<0.01							
6/27/2006	0.0043		<0.01		0.0028		0.012	
12/4/2006	0.0053		<0.01		0.0028		0.0067	
2/15/2007	0.0045							
6/23/2007	0.0043		<0.01		0.0063		0.025	
9/11/2007	0.004							
12/11/2007	0.0048		<0.01		<0.01		0.0038	
3/11/2008	0.0043							
6/23/2008	0.0037				<0.01		0.0051	
6/24/2008			<0.01					
11/3/2008	0.0032							
12/4/2008	0.0029				<0.01		<0.0025	
12/5/2008			<0.01					
3/25/2009	0.0055							
7/7/2009	0.0028		<0.01					
7/8/2009					<0.01		<0.0025	
9/14/2009	0.0027							
12/20/2009	0.0029		<0.01					
12/21/2009					<0.01		0.013	
3/4/2010	0.0042							
6/20/2010	0.0027		<0.01		<0.01		<0.0025	
9/14/2010	<0.01							
1/6/2011			<0.01		<0.01			
1/7/2011	0.0032						0.004	
4/15/2011	<0.01							
7/7/2011	0.005		0.0025		<0.01		0.0028	
9/25/2011	0.0041							
1/17/2012	0.0043		<0.01		0.0043		0.0043	
4/4/2012	<0.01							
7/9/2012			<0.01		<0.01		<0.0025	
7/10/2012	0.0028							
10/9/2012	0.0033							
1/17/2013			<0.01		0.0025		0.0033	
1/18/2013	0.0038							
4/5/2013	0.0026							
7/16/2013			<0.01		<0.01		0.0028	
7/17/2013	<0.01							
10/11/2013	0.0046							

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12
1/13/2014			0.0025		0.0025		0.0025	
1/14/2014	0.0025							
4/3/2014	0.0029							
7/8/2014					0.0011 (J)		0.002 (J)	
7/9/2014	0.002 (J)		<0.01					
10/24/2014	0.0031							
1/13/2015			0.0025		0.0021 (J)		0.0079	
1/14/2015	0.003							
5/10/2015	0.0028							
7/16/2015			<0.01		<0.01		0.0026	
7/17/2015	0.0018 (J)							
10/6/2015	0.0018 (J)							
1/17/2016			<0.01					
1/18/2016	0.0028						0.0025	
1/19/2016					0.0029			
4/26/2016	<0.01							
7/26/2016					<0.01			
7/27/2016			<0.01				0.0021 (J)	
7/28/2016	0.0018 (J)							
10/24/2016	0.0024 (J)							
1/3/2017	0.0035 (J)							
1/4/2017			<0.01		<0.01		0.0025 (J)	
4/3/2017	0.0041 (J)							
4/4/2017			<0.01					
4/5/2017							0.0026 (J)	
4/6/2017					0.004 (J)			
7/10/2017							0.0023 (J)	
7/11/2017	0.0029 (J)				<0.01			
7/12/2017			<0.01					
10/2/2017	0.0026 (J)							
1/9/2018	0.0035 (J)							
1/10/2018			0.0014 (J)					
1/11/2018					0.0018 (J)		0.0031 (J)	
7/9/2018	0.0022 (J)							
7/10/2018			0.0021 (J)					
7/11/2018					<0.01		0.0036 (J)	
1/16/2019		0.0037 (J)		<0.01				
1/17/2019						<0.01		0.0032 (J)
3/25/2019		<0.01						
3/26/2019				<0.01				
3/27/2019						<0.01		0.0031 (J)
10/7/2019		0.0077 (J)						
10/8/2019						0.0061 (J)		
10/9/2019				0.0057 (J)				0.0057 (J)

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
9/29/2000	<0.0025		<0.01		<0.01		<0.01	
11/21/2000	<0.0025		<0.01		<0.01		<0.01	
1/20/2001	<0.0025		<0.01		<0.01		<0.01	
3/14/2001	<0.0025		<0.01		<0.01		<0.01	
7/16/2001	<0.0025		<0.01		<0.01		<0.01	
11/1/2001			<0.01		<0.01		<0.01	
4/25/2002	<0.0025		<0.01		<0.01		<0.01	
11/20/2002	0.023		<0.01		<0.01		<0.01	
6/6/2003	<0.0025		<0.01		<0.01			
12/12/2003	<0.0025		<0.01		<0.01		<0.01	
5/26/2004	0.035		<0.01		<0.01		<0.01	
12/7/2004	0.018		<0.01		<0.01		<0.01	
6/21/2005	0.014		<0.01		<0.01		<0.01	
12/12/2005	0.023		0.011				<0.01	
4/4/2006			<0.01				<0.01	
6/27/2006	0.023		0.0045		0.011			
8/30/2006			<0.01				0.0027	
12/4/2006			<0.01		0.0033		<0.01	
2/15/2007			<0.01				0.0032	
6/23/2007	0.036		<0.01		0.0029		0.0058	
9/11/2007			<0.01				0.0033	
12/11/2007	0.011		<0.01		<0.01		<0.01	
3/11/2008			<0.01				<0.01	
6/23/2008	0.0091							
6/24/2008			<0.01		<0.01		<0.01	
11/3/2008			<0.01				0.0025	
12/4/2008	0.0038		<0.01					
12/5/2008					<0.01		<0.01	
3/25/2009			<0.01				0.0025	
7/8/2009	<0.0025		<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	0.0032							
3/4/2010			<0.01				<0.01	
6/20/2010	<0.0025		<0.01		<0.01			
6/21/2010							<0.01	
9/14/2010			<0.01				<0.01	
1/6/2011	0.004							
1/7/2011			<0.01		<0.01		<0.01	
4/15/2011			<0.01				<0.01	
7/7/2011	0.0037		<0.01		<0.01		<0.01	
9/25/2011			<0.01				0.0028	
1/17/2012	0.0031		<0.01		<0.01			
1/18/2012							0.0029	
4/4/2012			<0.01				<0.01	
7/9/2012	0.003		<0.01		<0.01			
7/10/2012							<0.01	
10/9/2012			<0.01				0.0027	
1/17/2013	<0.0025							
1/18/2013			<0.01		<0.01		<0.01	
4/5/2013			<0.01				<0.01	
7/16/2013	0.0029							

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15	GWC-16	GWC-16
7/17/2013			<0.01		<0.01		<0.01	
10/11/2013			<0.01				<0.01	
1/13/2014	0.0025				0.0025			
1/14/2014			0.0025				0.0025	
4/3/2014			0.0014 (J)				0.0015 (J)	
7/8/2014	0.0018 (J)							
7/9/2014			0.00086 (J)		<0.01		0.0012 (J)	
10/24/2014			0.00083 (J)				0.0013 (J)	
1/13/2015	0.0028				<0.01			
1/14/2015			<0.01				0.0017 (J)	
5/10/2015			<0.01					
5/11/2015							0.0015 (J)	
7/16/2015	0.0018 (J)				<0.01		<0.01	
7/17/2015			<0.01					
10/6/2015			<0.01				<0.01	
1/17/2016			<0.01		<0.01		<0.01	
1/18/2016	0.0017 (J)							
4/26/2016			<0.01				<0.01	
7/26/2016	0.0028 (J)							
7/27/2016			<0.01		<0.01			
7/28/2016							<0.01	
10/25/2016			<0.01		<0.01		<0.01	
1/4/2017							0.0025 (J)	
1/5/2017	0.0021 (J)		<0.01		<0.01			
4/3/2017					<0.01			
4/4/2017			<0.01					
4/5/2017							0.0025 (J)	
4/6/2017	0.0027 (J)							
7/11/2017			<0.01		<0.01			
7/12/2017	0.0043 (J)						0.002 (J)	
10/2/2017			0.0026 (J)		<0.01			
10/3/2017							<0.01	
1/9/2018			0.0018 (J)		<0.01			
1/10/2018	0.0021 (J)						0.0016 (J)	
7/9/2018			<0.01					
7/10/2018					<0.01		0.0031 (J)	
7/11/2018	0.0039 (J)							
1/16/2019		0.047		<0.01				
1/17/2019						<0.01		<0.01
3/26/2019		0.03		<0.01		<0.01		<0.01
10/8/2019		0.053		0.0052 (J)		0.0051 (J)		0.01

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21
9/29/2000	<0.0025							
11/21/2000	<0.0025							
1/20/2001	<0.0025		<0.01					
3/14/2001	<0.0025		<0.01					
7/16/2001	<0.0025		<0.01					
11/1/2001	<0.0025		<0.01					
4/25/2002	<0.0025		<0.01					
11/20/2002	0.014		<0.01					
6/6/2003	0.012		<0.01					
12/12/2003	<0.0025		<0.01					
5/26/2004	<0.0025		<0.01					
12/7/2004	<0.0025		<0.01					
6/21/2005	<0.0025		<0.01					
12/12/2005	<0.0025		0.012					
6/27/2006	0.0046		<0.01					
12/4/2006	0.0071		<0.01					
6/23/2007	0.005		<0.01					
12/11/2007	0.0033		<0.01					
6/24/2008	0.0037		<0.01					
12/4/2008			<0.01					
12/5/2008	0.0027							
7/8/2009	0.0048		<0.01					
12/20/2009			<0.01					
12/21/2009	0.0032							
6/20/2010			<0.01					
6/21/2010	0.0028				<0.01			
1/6/2011			<0.01					
1/7/2011	0.003				<0.01		<0.01	
7/7/2011					<0.01			
7/8/2011	0.0034						0.0044	
1/17/2012			<0.01					
1/18/2012	0.0049				<0.01		<0.01	
7/9/2012			<0.01					
7/10/2012	0.0039				<0.01		<0.01	
1/17/2013			<0.01					
1/18/2013	0.0043				0.0032		<0.01	
7/17/2013	0.0035		<0.01		<0.01		<0.01	
1/13/2014			0.0025					
1/14/2014	0.0025				0.0025		0.0025	
7/9/2014	0.0033		0.00058 (J)				0.00084 (J)	
7/10/2014					<0.01			
1/12/2015					<0.01			
1/13/2015			0.0024 (J)					
1/14/2015	0.0067						0.0018 (J)	
7/16/2015			<0.01					
7/17/2015							<0.01	
7/18/2015	<0.0025				<0.01			
1/17/2016			<0.01		<0.01		<0.01	
1/18/2016	0.012							
7/27/2016			0.0018 (J)					
7/28/2016					<0.01		<0.01	
7/29/2016	0.0086 (J)							

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21
10/25/2016					<0.01			
1/4/2017					<0.01		<0.01	
1/5/2017	0.016		<0.01					
4/4/2017			0.0015 (J)		<0.01		0.0015 (J)	
4/5/2017	0.0175							
7/11/2017					<0.01			
7/13/2017	0.0126		0.0014 (J)				0.002 (J)	
10/2/2017					<0.01			
1/9/2018							0.0016 (J)	
1/10/2018			<0.01		0.0034 (J)			
1/11/2018	0.012							
7/9/2018					<0.01			
7/10/2018			<0.01				<0.01	
7/11/2018	0.011							
1/16/2019		0.0094 (J)						
1/17/2019								<0.01
1/21/2019				<0.01		<0.01		
3/25/2019						<0.01		
3/26/2019		0.0057 (J)						<0.01
7/30/2019				0.0067 (J)				
10/8/2019								0.0071 (J)
10/9/2019		0.011		0.005 (J)		0.0049 (J)		

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R
9/29/2000			<0.0025		<0.01		0.026	
11/21/2000			<0.0025		<0.01		<0.01	
1/20/2001			<0.0025		0.041		0.031	
3/14/2001			<0.0025		<0.01			
7/16/2001			<0.0025		0.059			
11/1/2001			<0.0025		<0.01			
4/25/2002			<0.0025		<0.01		<0.01	
11/20/2002					0.061			
6/6/2003			<0.0025		0.041			
12/12/2003			<0.0025		0.012		<0.01	
5/26/2004			<0.0025		0.016		0.036	
12/7/2004			<0.0025		<0.01			
6/21/2005			<0.0025		<0.01			
12/12/2005					0.017		<0.01	
6/27/2006					0.11		0.01	
12/4/2006			0.0044		0.086		0.0035	
6/23/2007			0.0041		0.076		0.0032	
12/11/2007			0.0039		0.087		0.0079	
6/23/2008			<0.0025					
6/24/2008					0.062		<0.01	
12/4/2008			0.0039					
12/5/2008					0.014		<0.01	
7/7/2009					0.052		<0.01	
7/8/2009			<0.0025					
12/21/2009			0.004		0.046		<0.01	
6/20/2010			<0.0025				<0.01	
6/21/2010	<0.01				0.045			
1/6/2011							<0.01	
1/7/2011	0.019		0.0032		0.024			
7/7/2011							0.0027	
7/8/2011			0.0025		0.023			
1/17/2012							0.0039	
1/18/2012	0.0051		0.0045		0.011			
7/9/2012							<0.01	
7/10/2012	0.01		<0.0025		0.024			
1/17/2013							<0.01	
1/18/2013	0.0036		0.0029		0.011			
7/16/2013							0.0032	
7/17/2013	0.0025		<0.0025		0.0029			
1/13/2014							0.0025	
1/14/2014	0.0025		0.0025		0.0025			
7/9/2014			0.0016 (J)		0.0051		0.00076 (J)	
7/10/2014	0.024							
1/12/2015					0.0023 (J)			
1/13/2015							0.0036	
1/14/2015	0.0016 (J)		0.0024 (J)					
7/16/2015					0.0021 (J)		<0.01	
7/17/2015			0.0031					
7/18/2015	0.014							
1/18/2016	<0.01		0.0059		0.0092		<0.01	
7/27/2016							0.0015 (J)	
7/28/2016			0.0019 (J)					

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R
7/29/2016	0.0129				0.003 (J)			
1/3/2017							<0.01	
1/4/2017	0.006 (J)							
1/6/2017			0.0026 (J)		0.0104			
4/4/2017					0.0132			
4/6/2017	0.0031 (J)		0.0047 (J)				0.0023 (J)	
7/11/2017	0.0029 (J)							
7/12/2017			0.003 (J)		0.0046 (J)		<0.01	
1/10/2018							0.0022 (J)	
1/11/2018	0.0106		0.0046 (J)		0.0095 (J)			
7/10/2018							<0.01	
7/11/2018	0.0057 (J)		0.0033 (J)		0.0028 (J)			
1/16/2019						0.0052 (J)		<0.01
1/18/2019		0.0024 (J)		0.0025 (J)				
3/25/2019						0.0078 (J)		
3/26/2019								<0.01
3/27/2019		<0.01		0.0026 (J)				
10/9/2019		0.0079 (J)		0.0054 (J)		0.0064 (J)		0.0081 (J)

Prediction Limit

Constituent: Zinc Analysis Run 2/17/2020 3:57 PM View: IntraWell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
6/27/2006	0.0071	
12/4/2006	0.0096	
1/7/2011	0.0044	
7/7/2011	0.003	
1/18/2012	0.0048	
7/10/2012	<0.05	
1/18/2013	0.0028	
7/17/2013	<0.05	
1/14/2014	0.0025	
7/9/2014	0.00093 (J)	
1/14/2015	0.0023 (J)	
7/17/2015	<0.05	
1/18/2016	0.0029	
7/28/2016	<0.05	
1/5/2017	<0.05	
4/6/2017	0.0032 (J)	
7/12/2017	0.002 (J)	
1/9/2018	0.0036 (J)	
7/10/2018	0.0055 (J)	
1/16/2019		<0.05
3/26/2019		<0.05
10/9/2019		0.016 (J)

Trend Test Significant Results

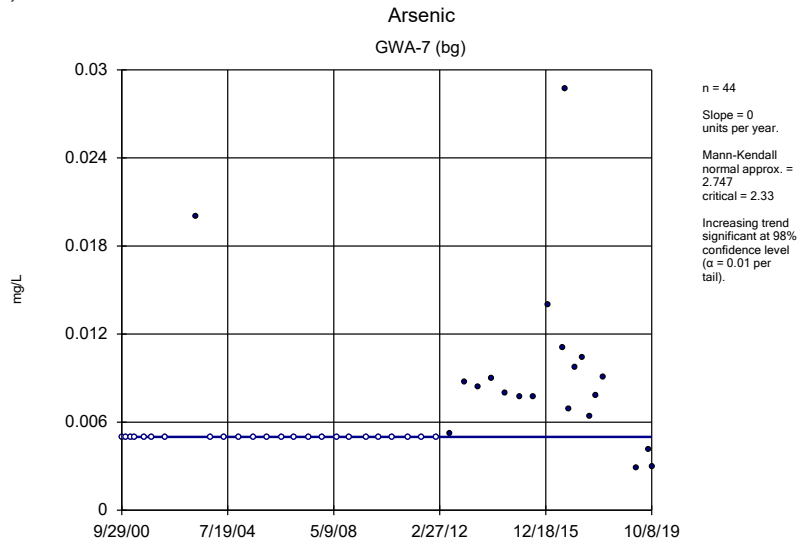
Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 4:20 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	0	2.747	2.33	Yes	44	54.55	n/a	0.02	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.004	-2.33	Yes	67	92.54	n/a	0.02	NP
Arsenic (mg/L)	GWC-15	0.002248	7.35	2.33	Yes	47	53.19	n/a	0.02	NP
Arsenic (mg/L)	GWC-16	-0.001133	-2.647	-2.33	Yes	66	0	n/a	0.02	NP
Arsenic (mg/L)	GWC-20	0.02308	122	106	Yes	26	3.846	n/a	0.02	NP
Barium (mg/L)	GWA-8 (bg)	-0.002602	-7.539	-2.33	Yes	64	0	n/a	0.02	NP
Barium (mg/L)	GWC-9	0.009158	5.724	2.33	Yes	46	0	n/a	0.02	NP
Zinc (mg/L)	GWA-7 (bg)	0.00143	4.729	2.33	Yes	41	29.27	n/a	0.02	NP
Zinc (mg/L)	GWA-8 (bg)	-0.0002312	-4.488	-2.33	Yes	60	25	n/a	0.02	NP

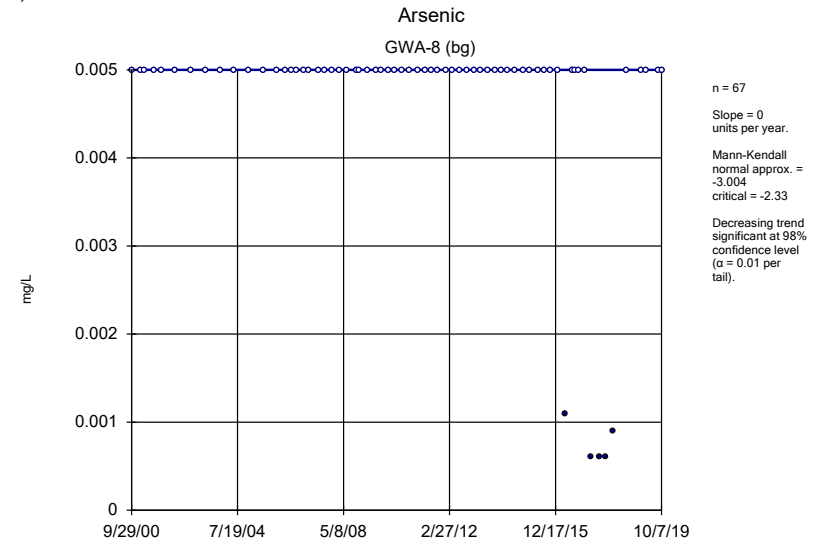
Trend Test All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 4:20 PM

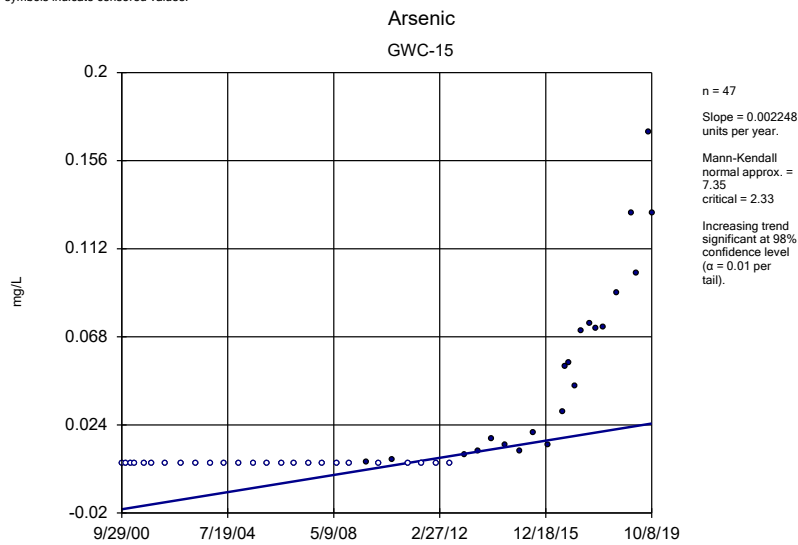
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	0	2.747	2.33	Yes	44	54.55	n/a	0.02	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.004	-2.33	Yes	67	92.54	n/a	0.02	NP
Arsenic (mg/L)	GWC-15	0.002248	7.35	2.33	Yes	47	53.19	n/a	0.02	NP
Arsenic (mg/L)	GWC-16	-0.001133	-2.647	-2.33	Yes	66	0	n/a	0.02	NP
Arsenic (mg/L)	GWC-20	0.02308	122	106	Yes	26	3.846	n/a	0.02	NP
Barium (mg/L)	GWA-7 (bg)	-0.00004699	-0.2648	-2.33	No	45	0	n/a	0.02	NP
Barium (mg/L)	GWA-8 (bg)	-0.002602	-7.539	-2.33	Yes	64	0	n/a	0.02	NP
Barium (mg/L)	GWC-16	0.0007044	1.887	2.33	No	63	0	n/a	0.02	NP
Barium (mg/L)	GWC-9	0.009158	5.724	2.33	Yes	46	0	n/a	0.02	NP
Selenium (mg/L)	GWA-7 (bg)	0	0.1494	2.33	No	42	61.9	n/a	0.02	NP
Selenium (mg/L)	GWA-8 (bg)	0	-1.571	-2.33	No	66	96.97	n/a	0.02	NP
Selenium (mg/L)	GWC-15	0	-1.864	-2.33	No	43	83.72	n/a	0.02	NP
Zinc (mg/L)	GWA-7 (bg)	0.00143	4.729	2.33	Yes	41	29.27	n/a	0.02	NP
Zinc (mg/L)	GWA-8 (bg)	-0.0002312	-4.488	-2.33	Yes	60	25	n/a	0.02	NP
Zinc (mg/L)	GWC-13	0	-0.1253	-2.33	No	41	26.83	n/a	0.02	NP



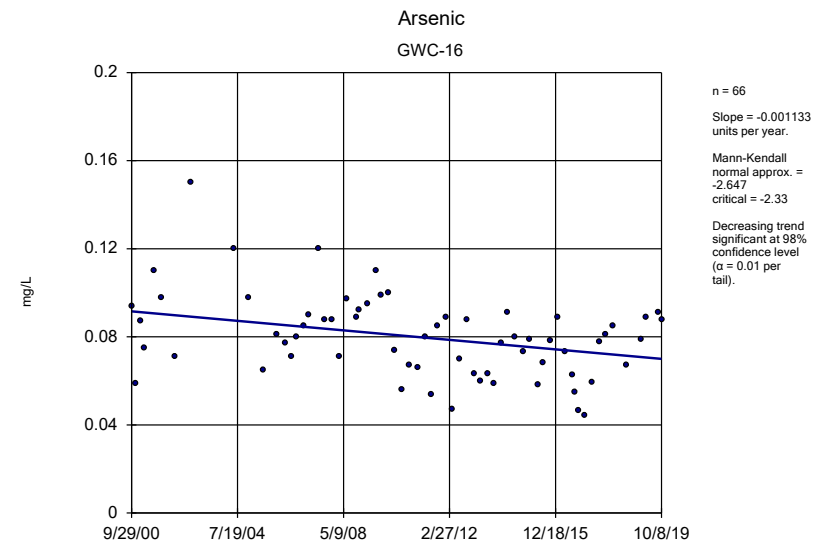
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

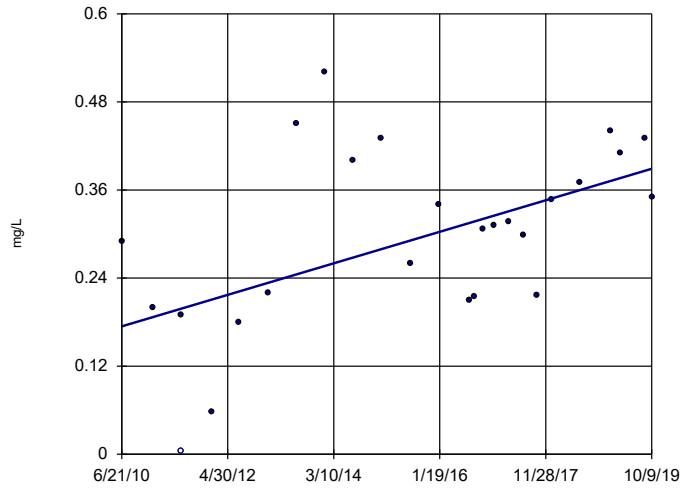


Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



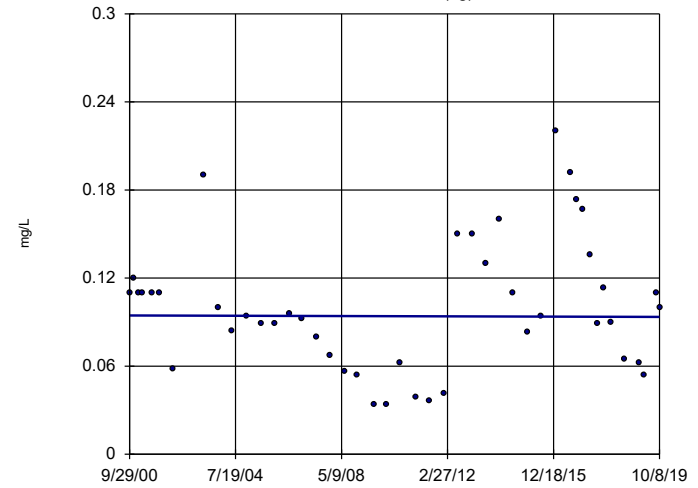
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Arsenic GWC-20



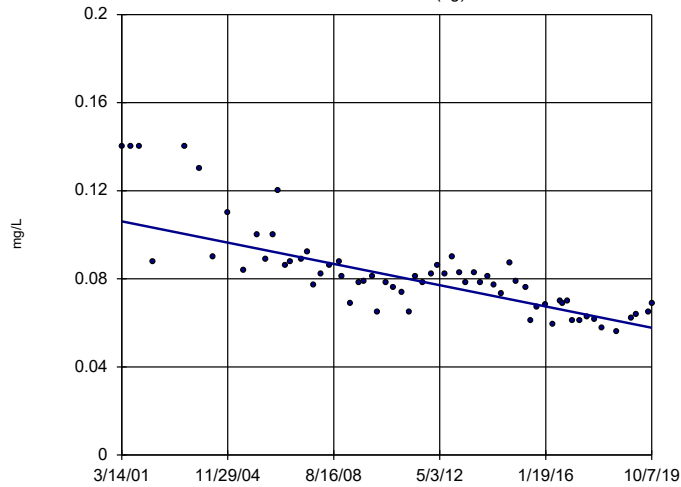
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Barium GWA-7 (bg)



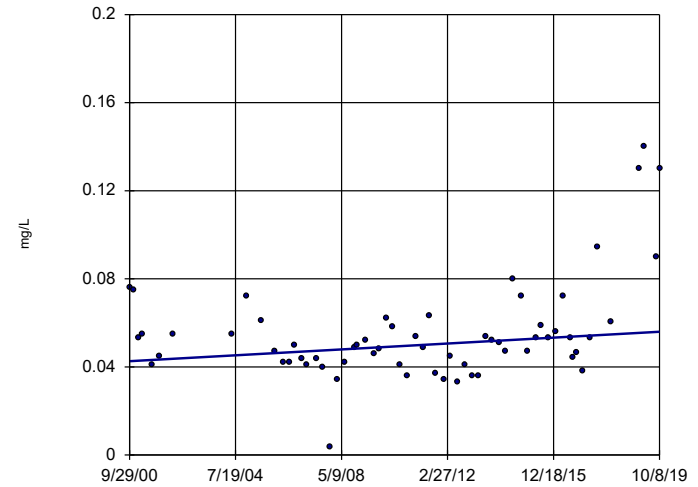
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Barium GWA-8 (bg)

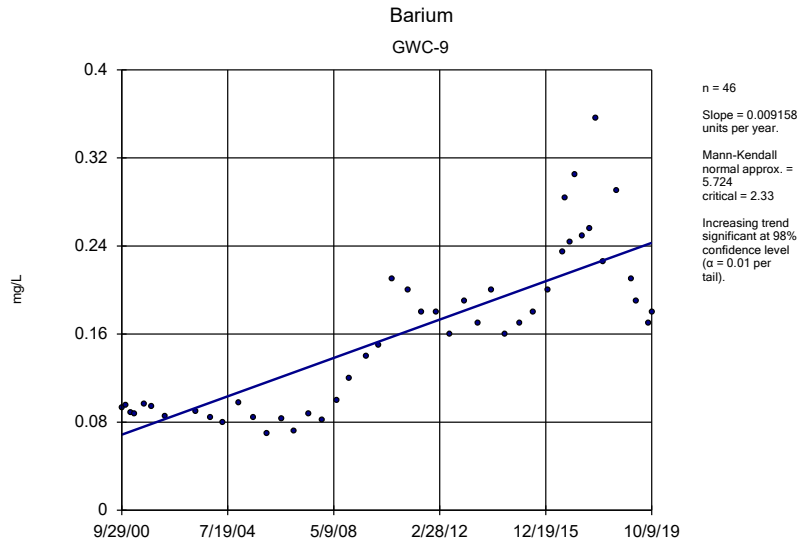


Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

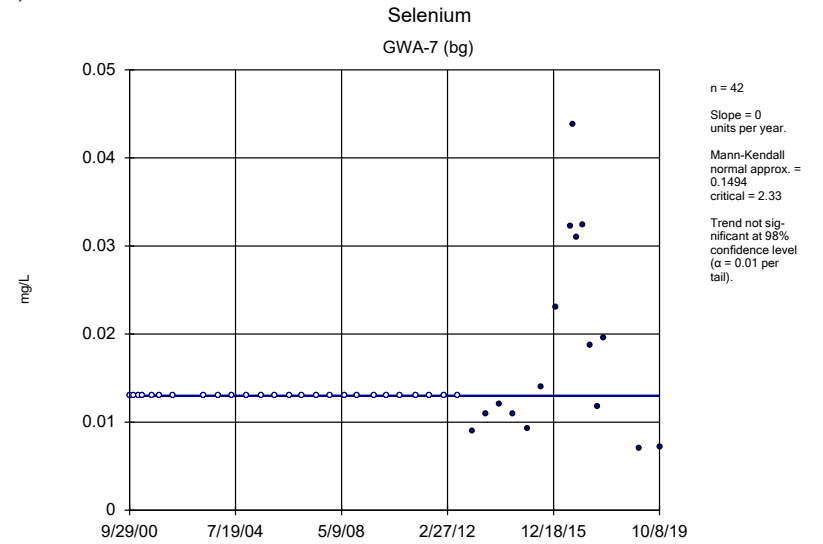
Barium GWC-16



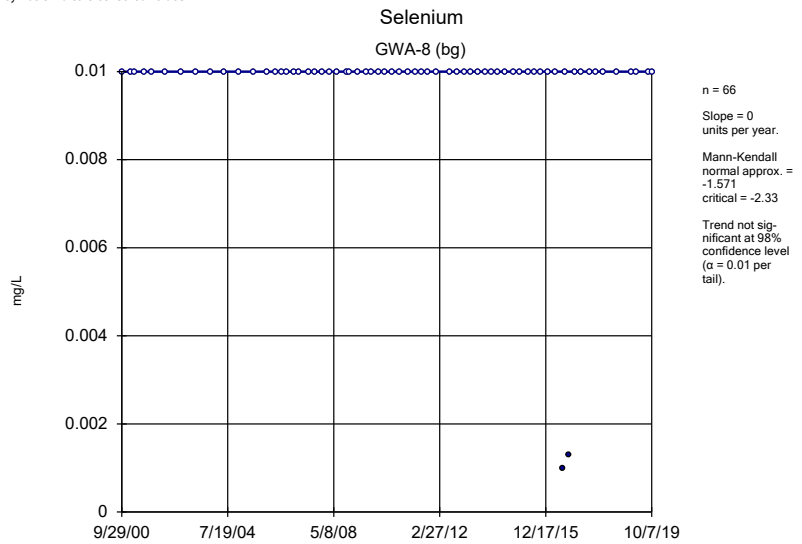
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



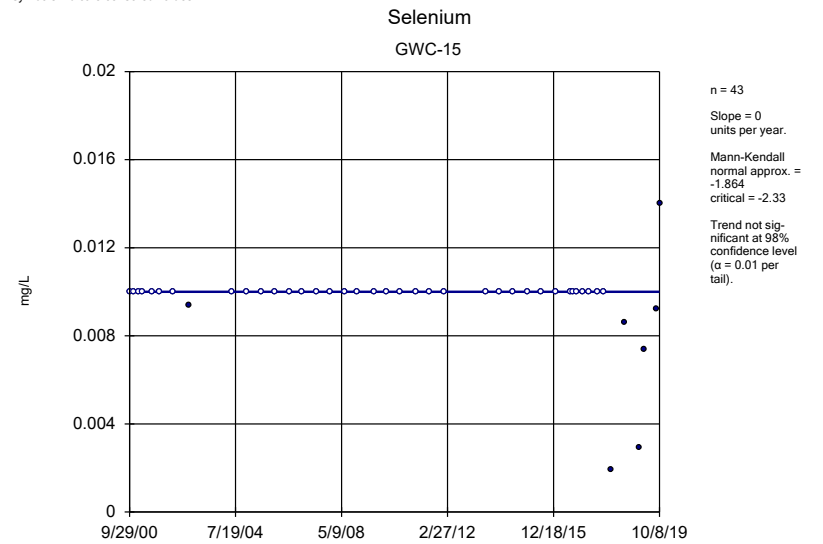
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



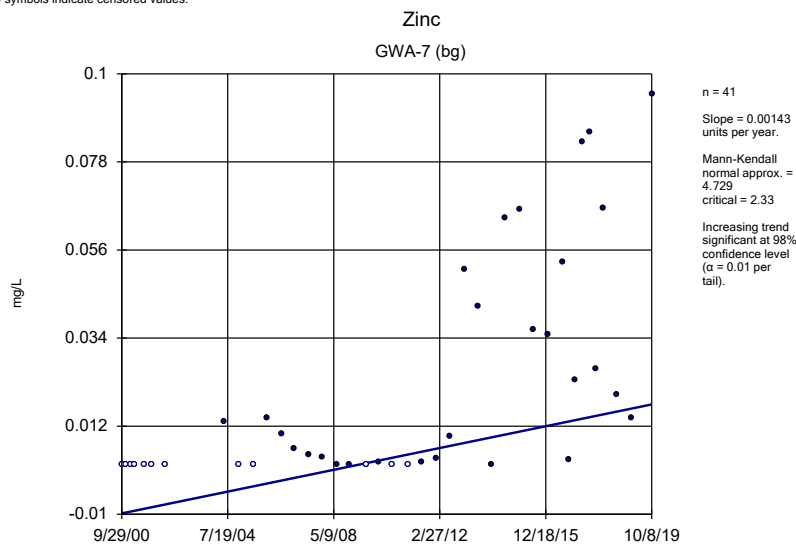
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



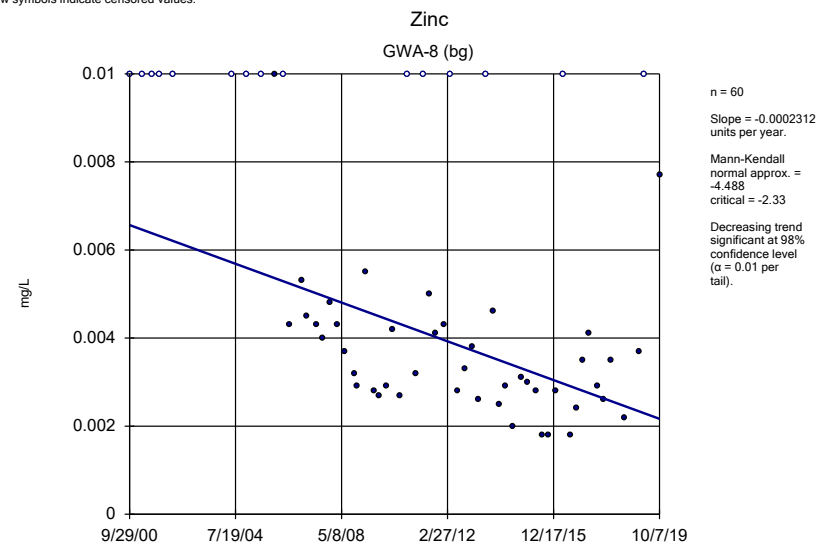
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



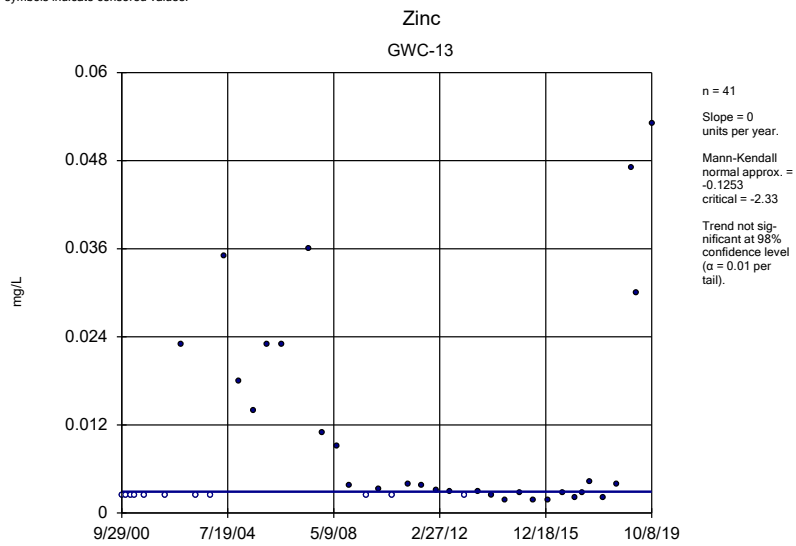
Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:18 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

Constituent: Arsenic Analysis Run 2/17/2020 4:20 PM View: Trend Test
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	0.094
11/21/2000	<0.005		<0.005	0.059
1/20/2001	<0.005	<0.005	<0.005	0.087
3/14/2001	<0.005	<0.005	<0.005	0.075
7/16/2001	<0.005	<0.005	<0.005	0.11
11/1/2001	<0.005	<0.005	<0.005	0.098
4/25/2002	<0.005	<0.005	<0.005	0.071
11/20/2002		<0.005	<0.005	0.15
6/6/2003	0.02	<0.005	<0.005	
12/12/2003	<0.005	<0.005	<0.005	
5/26/2004	<0.005	<0.005	<0.005	0.12
12/7/2004	<0.005	<0.005	<0.005	0.098
6/21/2005	<0.005	<0.005	<0.005	0.065
12/12/2005	<0.005	<0.005	<0.005	0.081
4/4/2006		<0.005		0.077
6/27/2006	<0.005	<0.005	<0.005	0.071
8/30/2006		<0.005		0.08
12/4/2006	<0.005	<0.005	<0.005	0.085
2/15/2007		<0.005		0.09
6/23/2007	<0.005	<0.005	<0.005	0.12
9/11/2007		<0.005		0.088
12/11/2007	<0.005	<0.005	<0.005	0.088
3/11/2008		<0.005		0.071
6/23/2008	<0.005	<0.005		
6/24/2008			<0.005	0.097
11/3/2008		<0.005		0.089
12/4/2008	<0.005	<0.005		
12/5/2008			<0.005	0.092
3/25/2009		<0.005		0.095
7/7/2009	<0.005	<0.005		
7/8/2009			0.0052	0.11
9/14/2009		<0.005		0.099
12/20/2009	<0.005	<0.005	<0.005	0.1
3/4/2010		<0.005		0.074
6/20/2010	<0.005	<0.005	0.0068	
6/21/2010				0.056
9/14/2010		<0.005		0.067
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	0.054
9/25/2011		<0.005		0.085
1/17/2012	<0.005	<0.005	<0.005	
1/18/2012				0.089
4/4/2012		<0.005		0.0473
7/9/2012	0.0052		<0.005	
7/10/2012		<0.005		0.07
10/9/2012		<0.005		0.088
1/18/2013	0.0087	<0.005	0.0089	0.063
4/5/2013		<0.005		0.06
7/17/2013	0.0084	<0.005	0.011	0.063
10/11/2013		<0.005		0.059
1/13/2014	0.009		0.017	

Sen's Slope Estimator

Constituent: Arsenic Analysis Run 2/17/2020 4:20 PM View: Trend Test
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-15	GWC-16
1/14/2014		<0.005		0.077
4/3/2014		<0.005		0.091
7/9/2014	0.008	<0.005	0.014	0.08
10/24/2014		<0.005		0.073
1/13/2015	0.0077		0.011	
1/14/2015		<0.005		0.079
5/10/2015		<0.005		
5/11/2015				0.058
7/16/2015	0.0077		0.02	0.068
7/17/2015		<0.005		
10/6/2015		<0.005		0.078
1/17/2016			0.014	0.089
1/18/2016	0.014	<0.005		
4/26/2016		0.0011 (J)		0.0731
7/27/2016	0.0111		0.0303	
7/28/2016		<0.005		0.0627
8/30/2016		<0.005		
9/1/2016	0.0287		0.0533	0.0551
10/24/2016		<0.005		
10/25/2016	0.0069		0.0551	0.0466
1/3/2017		<0.005		
1/4/2017				0.0444
1/5/2017			0.0437	
1/6/2017	0.0097			
4/3/2017		0.0006 (J)	0.0713	
4/5/2017				0.0591
4/6/2017	0.0104			
7/11/2017		0.0006 (J)	0.0745	
7/12/2017				0.0776
7/13/2017	0.0064			
10/2/2017		0.0006 (J)	0.0723	
10/3/2017				0.0813
10/4/2017	0.0078			
1/9/2018	0.0091 (J)	0.0009 (J)	0.0731	
1/10/2018				0.085
7/9/2018		<0.005		
7/10/2018			0.09	0.067
1/16/2019		<0.005		
1/17/2019			0.13	0.079
3/25/2019	0.0029 (J)	<0.005		
3/26/2019			0.1	0.089
8/26/2019	0.0041 (J)	<0.005		
8/27/2019			0.17	
8/28/2019				0.091
10/7/2019		<0.005		
10/8/2019	0.003 (J)		0.13	0.088

Sen's Slope Estimator

Constituent: Arsenic, Barium Analysis Run 2/17/2020 4:20 PM View: Trend Test

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWA-7 (bg)	GWA-8 (bg)	GWC-16
9/29/2000		0.11		0.076
11/21/2000		0.12		0.075
1/20/2001		0.11		0.053
3/14/2001		0.11	0.14	0.055
7/16/2001		0.11	0.14	0.041
11/1/2001		0.11	0.14	0.045
4/25/2002		0.058	0.088	0.055
6/6/2003		0.19	0.14	
12/12/2003		0.1	0.13	
5/26/2004		0.084	0.09	0.055
12/7/2004		0.094	0.11	0.072
6/21/2005		0.089	0.084	0.061
12/12/2005		0.089	0.1	0.047
4/4/2006			0.089	0.042
6/27/2006		0.096	0.1	0.042
8/30/2006			0.12	0.05
12/4/2006		0.092	0.086	0.044
2/15/2007			0.088	0.041
6/23/2007		0.08	0.089	0.044
9/11/2007			0.092	0.04
12/11/2007		0.067	0.077	0.0035
3/11/2008			0.082	0.034
6/23/2008		0.056	0.086	
6/24/2008				0.042
11/3/2008			0.088	0.049
12/4/2008		0.054	0.081	
12/5/2008				0.05
3/25/2009			0.069	0.052
7/7/2009		0.034	0.078	
7/8/2009				0.046
9/14/2009			0.079	0.048
12/20/2009		0.034	0.081	0.062
3/4/2010			0.065	0.058
6/20/2010		0.062	0.078	
6/21/2010	0.29			0.041
9/14/2010			0.076	0.036
1/7/2011	0.2	0.039	0.074	0.054
4/15/2011			0.065	0.049
7/7/2011	<0.005	0.036	0.081	0.063
7/8/2011	0.19			
9/25/2011			0.078	0.037
1/17/2012		0.041	0.082	
1/18/2012	0.058			0.034
4/4/2012			0.0861	0.0446
7/9/2012		0.15		
7/10/2012	0.18		0.082	0.033
10/9/2012			0.09	0.041
1/18/2013	0.22	0.15	0.083	0.036
4/5/2013			0.078	0.036
7/17/2013	0.45	0.13	0.083	0.054
10/11/2013			0.078	0.052
1/13/2014		0.16		

Sen's Slope Estimator

Constituent: Arsenic, Barium Analysis Run 2/17/2020 4:20 PM View: Trend Test
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWA-7 (bg)	GWA-8 (bg)	GWC-16
1/14/2014	0.52		0.081	0.051
4/3/2014			0.077	0.047
7/9/2014		0.11	0.073	0.08
7/10/2014	0.4			
10/24/2014			0.087	0.072
1/12/2015	0.43			
1/13/2015		0.083		
1/14/2015			0.079	0.047
5/10/2015			0.076	
5/11/2015				0.053
7/16/2015		0.094		0.059
7/17/2015			0.061	
7/18/2015	0.26			
10/6/2015			0.067	0.053
1/17/2016	0.34			0.056
1/18/2016		0.22	0.068	
4/26/2016			0.0596	0.0721
7/27/2016		0.192		
7/28/2016	0.209		0.0701	0.0534
8/30/2016			0.0687	
9/1/2016	0.215			0.0445
10/24/2016			0.07	
10/25/2016	0.307	0.173		0.0464
1/3/2017			0.061	
1/4/2017	0.311			0.0379
1/6/2017		0.167		
4/3/2017			0.0612	
4/4/2017	0.317			
4/5/2017				0.0534
4/6/2017		0.136		
7/11/2017	0.299		0.0624	
7/12/2017				0.0944
7/13/2017		0.0891		
10/2/2017	0.216		0.0618	
10/4/2017		0.113		
1/9/2018		0.0901	0.0574	
1/10/2018	0.347			0.0603
7/9/2018	0.37		0.056	
7/11/2018		0.065		
1/16/2019		0.062	0.062	
1/17/2019				0.13
1/21/2019	0.44			
3/25/2019	0.41	0.054	0.064	
3/26/2019				0.14
8/26/2019		0.11	0.065	
8/28/2019	0.43			0.09
10/7/2019			0.069	
10/8/2019		0.1		0.13
10/9/2019	0.35			

Sen's Slope Estimator

Constituent: Barium, Selenium Analysis Run 2/17/2020 4:20 PM View: Trend Test

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWA-7 (bg)	GWA-8 (bg)	GWC-15
9/29/2000	0.093	<0.013	<0.01	<0.01
11/21/2000	0.095	<0.013		<0.01
1/20/2001	0.089	<0.013	<0.01	<0.01
3/14/2001	0.088	<0.013	<0.01	<0.01
7/16/2001	0.096	<0.013	<0.01	<0.01
11/1/2001	0.094	<0.013	<0.01	<0.01
4/25/2002	0.085	<0.013	<0.01	<0.01
11/20/2002			<0.01	0.0094
6/6/2003	0.09	<0.013	<0.01	
12/12/2003	0.084	<0.013	<0.01	
5/26/2004	0.08	<0.013	<0.01	<0.01
12/7/2004	0.098	<0.013	<0.01	<0.01
6/21/2005	0.084	<0.013	<0.01	<0.01
12/12/2005	0.07	<0.013	<0.01	<0.01
4/4/2006			<0.01	
6/27/2006	0.083	<0.013	<0.01	<0.01
8/30/2006			<0.01	
12/4/2006	0.072	<0.013	<0.01	<0.01
2/15/2007			<0.01	
6/23/2007	0.087	<0.013	<0.01	<0.01
9/11/2007			<0.01	
12/11/2007	0.082	<0.013	<0.01	<0.01
3/11/2008			<0.01	
6/23/2008	0.1	<0.013	<0.01	
6/24/2008				<0.01
11/3/2008			<0.01	
12/4/2008	0.12	<0.013	<0.01	
12/5/2008				<0.01
3/25/2009			<0.01	
7/7/2009		<0.013	<0.01	
7/8/2009	0.14			<0.01
9/14/2009			<0.01	
12/20/2009		<0.013	<0.01	<0.01
12/21/2009	0.15			
3/4/2010			<0.01	
6/20/2010	0.21	<0.013	<0.01	<0.01
9/14/2010			<0.01	
1/7/2011	0.2	<0.013	<0.01	<0.01
4/15/2011			<0.01	
7/7/2011		<0.013	<0.01	<0.01
7/8/2011	0.18			
9/25/2011			<0.01	
1/17/2012		<0.013	<0.01	<0.01
1/18/2012	0.18			
7/9/2012		<0.013		
7/10/2012	0.16		<0.01	
10/9/2012			<0.01	
1/18/2013	0.19	0.009	<0.01	
4/5/2013			<0.01	
7/17/2013	0.17	0.011	<0.01	<0.01
10/11/2013			<0.01	
1/13/2014		0.012		<0.01

Sen's Slope Estimator

Constituent: Barium, Selenium Analysis Run 2/17/2020 4:20 PM View: Trend Test
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWA-7 (bg)	GWA-8 (bg)	GWC-15
1/14/2014	0.2		<0.01	
4/3/2014			<0.01	
7/9/2014	0.16	0.011	<0.01	<0.01
10/24/2014			<0.01	
1/13/2015		0.0092		<0.01
1/14/2015	0.17		<0.01	
5/10/2015			<0.01	
7/16/2015		0.014		<0.01
7/17/2015	0.18		<0.01	
10/6/2015			<0.01	
1/17/2016				<0.01
1/18/2016	0.2	0.023	<0.01	
4/26/2016			<0.01	
7/27/2016		0.0323		<0.01
7/28/2016	0.234		0.001 (J)	
8/30/2016			<0.01	
8/31/2016	0.284			
9/1/2016		0.0438		<0.01
10/24/2016			0.0013 (J)	
10/25/2016		0.031		<0.01
10/27/2016	0.244			
1/3/2017			<0.01	
1/5/2017				<0.01
1/6/2017	0.305	0.0324		
4/3/2017			<0.01	<0.01
4/6/2017	0.249	0.0188 (J)		
7/11/2017			<0.01	<0.01
7/12/2017	0.256			
7/13/2017		0.0118		
10/2/2017			<0.01	<0.01
10/4/2017	0.356	0.0195		
1/9/2018			<0.01	0.0019 (J)
1/11/2018	0.226			
7/9/2018			<0.01	
7/10/2018				0.0086 (J)
7/11/2018	0.29			
1/16/2019		0.0071 (J)	<0.01	
1/17/2019				0.0029 (J)
1/18/2019	0.21			
3/25/2019			<0.01	
3/26/2019				0.0074 (J)
3/27/2019	0.19			
8/26/2019			<0.01	
8/27/2019				0.0092 (J)
8/28/2019	0.17			
10/7/2019			<0.01	
10/8/2019		0.0072 (J)		0.014
10/9/2019	0.18			

Sen's Slope Estimator

Constituent: Zinc Analysis Run 2/17/2020 4:20 PM View: Trend Test
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-13
9/29/2000	<0.0025	<0.01	<0.0025
11/21/2000	<0.0025		<0.0025
1/20/2001	<0.0025		<0.0025
3/14/2001	<0.0025	<0.01	<0.0025
7/16/2001	<0.0025	<0.01	<0.0025
11/1/2001	<0.0025	<0.01	
4/25/2002	<0.0025	<0.01	<0.0025
11/20/2002			0.023
6/6/2003			<0.0025
12/12/2003			<0.0025
5/26/2004	0.013	<0.01	0.035
12/7/2004	<0.0025	<0.01	0.018
6/21/2005	<0.0025	<0.01	0.014
12/12/2005	0.014	0.01	0.023
4/4/2006		<0.01	
6/27/2006	0.01	0.0043	0.023
12/4/2006	0.0065	0.0053	
2/15/2007		0.0045	
6/23/2007	0.0049	0.0043	0.036
9/11/2007		0.004	
12/11/2007	0.0043	0.0048	0.011
3/11/2008		0.0043	
6/23/2008	0.0025	0.0037	0.0091
11/3/2008		0.0032	
12/4/2008	0.0025	0.0029	0.0038
3/25/2009		0.0055	
7/7/2009	<0.0025	0.0028	
7/8/2009			<0.0025
9/14/2009		0.0027	
12/20/2009	0.0031	0.0029	
12/21/2009			0.0032
3/4/2010		0.0042	
6/20/2010	<0.0025	0.0027	<0.0025
9/14/2010		<0.01	
1/6/2011			0.004
1/7/2011	<0.0025	0.0032	
4/15/2011		<0.01	
7/7/2011	0.0031	0.005	0.0037
9/25/2011		0.0041	
1/17/2012	0.004	0.0043	0.0031
4/4/2012		<0.01	
7/9/2012	0.0096		0.003
7/10/2012		0.0028	
10/9/2012		0.0033	
1/17/2013			<0.0025
1/18/2013	0.051	0.0038	
4/5/2013		0.0026	
7/16/2013			0.0029
7/17/2013	0.042	<0.01	
10/11/2013		0.0046	
1/13/2014	0.0025		0.0025
1/14/2014		0.0025	

Sen's Slope Estimator

Constituent: Zinc Analysis Run 2/17/2020 4:20 PM View: Trend Test
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-13
4/3/2014		0.0029	
7/8/2014			0.0018 (J)
7/9/2014	0.064	0.002 (J)	
10/24/2014		0.0031	
1/13/2015	0.066		0.0028
1/14/2015		0.003	
5/10/2015		0.0028	
7/16/2015	0.036		0.0018 (J)
7/17/2015		0.0018 (J)	
10/6/2015		0.0018 (J)	
1/18/2016	0.035	0.0028	0.0017 (J)
4/26/2016		<0.01	
7/26/2016			0.0028 (J)
7/27/2016	0.0529		
7/28/2016		0.0018 (J)	
10/24/2016		0.0024 (J)	
10/25/2016	0.0035 (J)		
1/3/2017		0.0035 (J)	
1/5/2017			0.0021 (J)
1/6/2017	0.0235		
4/3/2017		0.0041 (J)	
4/6/2017	0.0829		0.0027 (J)
7/11/2017		0.0029 (J)	
7/12/2017			0.0043 (J)
7/13/2017	0.0853		
10/2/2017		0.0026 (J)	
10/4/2017	0.0263		
1/9/2018	0.0665	0.0035 (J)	
1/10/2018			0.0021 (J)
7/9/2018		0.0022 (J)	
7/11/2018	0.02 (J)		0.0039 (J)
1/16/2019	0.014 (J)	0.0037 (J)	0.047
3/25/2019		<0.01	
3/26/2019			0.03
10/7/2019		0.0077 (J)	
10/8/2019	0.095		0.053

**Appendix III Statistics (from 2019 Semiannual Groundwater Monitoring and
Corrective Action Report)**

Interwell Prediction Limit Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 12/10/2019, 11:08 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWC-1	31.7	n/a	10/9/2019	51.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	31.7	n/a	10/8/2019	69.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	31.7	n/a	10/9/2019	54.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	31.7	n/a	10/8/2019	146	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	31.7	n/a	10/8/2019	129	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	31.7	n/a	10/8/2019	205	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	31.7	n/a	10/9/2019	56.6	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	31.7	n/a	10/9/2019	80.1	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	31.7	n/a	10/8/2019	49.5	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	31.7	n/a	10/9/2019	46.7	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	10/9/2019	330	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	10/8/2019	6.65	Yes	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.24	10/9/2019	6.5	Yes	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	10/8/2019	310	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	10/9/2019	392	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	10/8/2019	428	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	10/8/2019	872	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	10/9/2019	346	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	10/9/2019	255	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2

Interwell Prediction Limit All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 12/10/2019, 11:08 AM

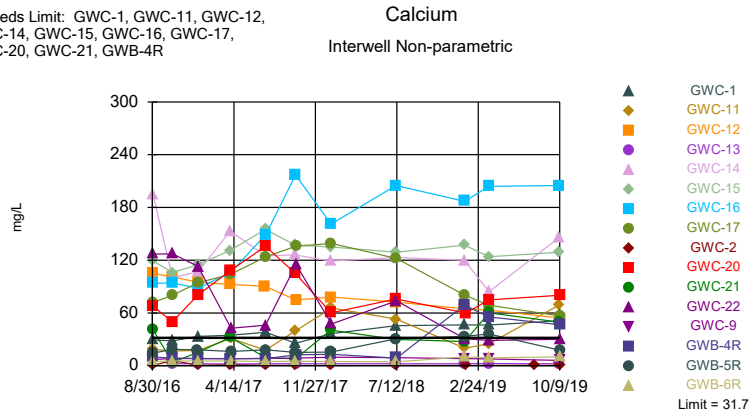
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Calcium (mg/L)	GWC-1	31.7	n/a	10/9/2019	51.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	31.7	n/a	10/8/2019	69.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	31.7	n/a	10/9/2019	54.2	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	31.7	n/a	10/8/2019	2.3	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	31.7	n/a	10/8/2019	146	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	31.7	n/a	10/8/2019	129	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	31.7	n/a	10/8/2019	205	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	31.7	n/a	10/9/2019	56.6	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	31.7	n/a	10/9/2019	0.18	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	31.7	n/a	10/9/2019	80.1	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	31.7	n/a	10/8/2019	49.5	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	31.7	n/a	10/9/2019	30.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	31.7	n/a	10/9/2019	6	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	31.7	n/a	10/9/2019	46.7	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	31.7	n/a	10/9/2019	17.7	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	31.7	n/a	10/9/2019	10.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	10/9/2019	7.2	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	10/8/2019	89	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	10/9/2019	44.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	10/8/2019	4	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	10/8/2019	40.2	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	10/8/2019	2.9	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	10/8/2019	46.4	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	10/9/2019	330	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	10/9/2019	7	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	10/9/2019	5.4	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	10/8/2019	7.8	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	10/9/2019	25.3	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	10/9/2019	19	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	10/9/2019	32.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	10/9/2019	239	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	10/9/2019	49.7	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-11	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-12	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-13	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-14	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-15	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-16	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-17	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-2	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-20	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-21	0.4774	n/a	10/8/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-22	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-9	0.4774	n/a	10/9/2019	0.068	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-4R	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-5R	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-6R	0.4774	n/a	10/9/2019	0.3ND	No	24	25	No	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-1	6.43	4.24	10/9/2019	5.82	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.24	10/8/2019	4.93	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2

Interwell Prediction Limit All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 12/10/2019, 11:08 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (SU)	GWC-12	6.43	4.24	10/9/2019	4.25	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.24	10/8/2019	4.81	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.24	10/8/2019	5.68	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	10/8/2019	6.65	Yes	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.24	10/8/2019	5.54	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.24	10/9/2019	4.66	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.24	10/9/2019	4.79	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.24	10/9/2019	6.5	Yes	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.24	10/8/2019	6.09	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.24	10/9/2019	4.68	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.24	10/9/2019	4.62	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.24	10/9/2019	5.79	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.24	10/9/2019	6.11	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.24	10/9/2019	5.66	No	22	0	n/a	0.006133	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	10/9/2019	76.3	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	10/8/2019	310	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	10/9/2019	392	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	10/8/2019	22	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	10/8/2019	428	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	10/8/2019	45.8	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	10/8/2019	872	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	10/9/2019	346	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	10/9/2019	10.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	10/9/2019	58.5	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	10/8/2019	85.6	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	10/9/2019	80.2	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	10/9/2019	41.1	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	10/9/2019	38.5	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	10/9/2019	90.8	No	22	0	n/a	0.003067	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	10/9/2019	255	Yes	22	0	n/a	0.003067	NP Inter (normality) 1 of 2

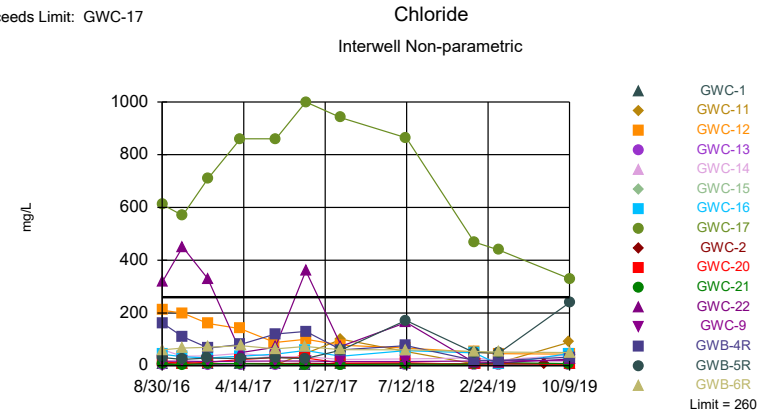
Exceeds Limit: GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, GWC-4R



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 22 background values. Annual per-constituent alpha = 0.09361. Individual comparison alpha = 0.003067 (1 of 2). Comparing 16 points to limit.

Prediction Limit Analysis Run 12/10/2019 11:05 AM View: Appendix III Interwell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit: GWC-17

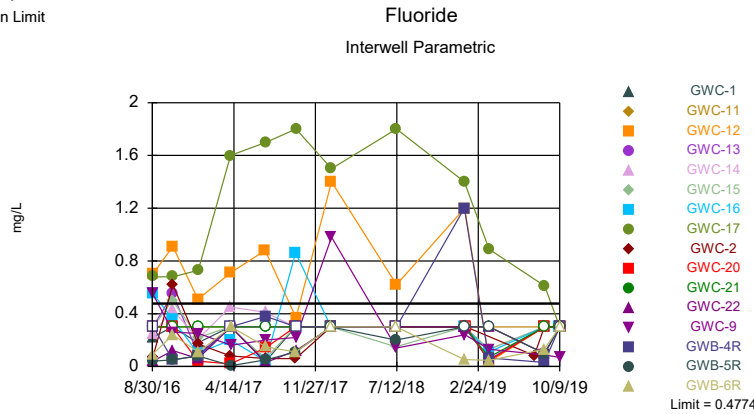


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. Annual per-constituent alpha = 0.09361. Individual comparison alpha = 0.003067 (1 of 2). Comparing 16 points to limit.

Prediction Limit Analysis Run 12/10/2019 11:05 AM View: Appendix III Interwell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Hollow symbols indicate censored values.

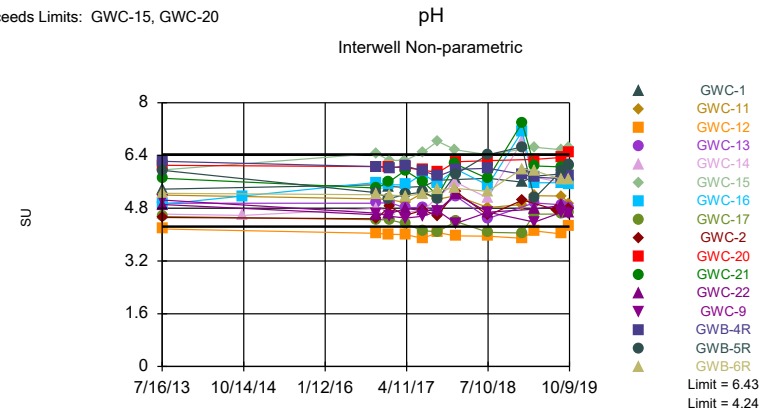
Within Limit



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1598, Std. Dev.=0.1359, n=24, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9355, critical = 0.884. Kappa = 2.338 (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.

Prediction Limit Analysis Run 12/10/2019 11:05 AM View: Appendix III Interwell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limits: GWC-15, GWC-20

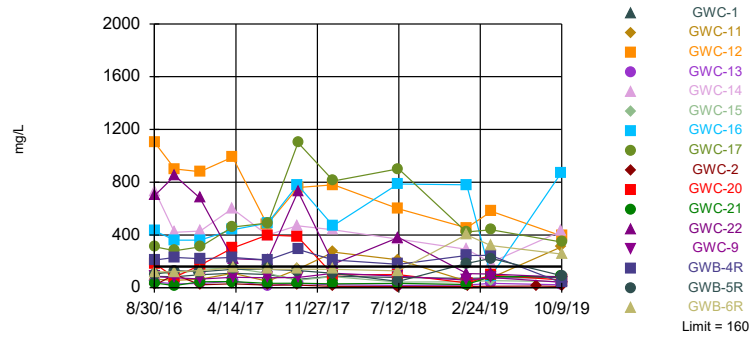


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 22 background values. Annual per-constituent alpha = 0.1872. Individual comparison alpha = 0.006133 (1 of 2). Comparing 16 points to limit.

Prediction Limit Analysis Run 12/10/2019 11:05 AM View: Appendix III Interwell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit: GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWB-6R

Sulfate 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 22 background values. Annual per-constituent alpha = 0.09361. Individual comparison alpha = 0.003067 (1 of 2). Comparing 16 points to limit.

Prediction Limit Analysis Run 12/10/2019 11:05 AM View: Appendix III Interwell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-1	GWC-9	GWC-22	GWC-2	GWC-12	GWC-11
8/30/2016	4.68	14.3	23.8	29.4					
8/31/2016					6.9	127	0.371 (J)	105	18.8
9/1/2016									
10/24/2016			22.5						
10/25/2016				28.3					
10/26/2016	5.45	18.6				127	5.84	101	16.6
10/27/2016					8.2				
1/3/2017		18.1	22.1						
1/4/2017				33.4		113		94.9	17.6
1/5/2017	5.35						0.379 (J)		
1/6/2017					7.97				
4/3/2017			24.6 (J)						
4/4/2017				34.6			0.993		
4/5/2017								92.5	
4/6/2017	5.41	16.2			7.95	42.7			30.9
7/10/2017								90.3	
7/11/2017			23.5			46			17.7
7/12/2017	4.81	18.1		38	8.37				
7/13/2017							0.388 (J)		
10/2/2017			22.7						
10/3/2017	5.17	15.2		25.5			0.251 (J)		39.8
10/4/2017					8.57	115		74.6	
1/9/2018	4.73		23.2						
1/10/2018		15.5		36.5			0.177 (J)		
1/11/2018					9.78	47.6		78.1	65.6
7/9/2018			24.6 (J)						
7/10/2018	4.5	30.6		45.5			0.17 (J)		
7/11/2018					9.2	73.7		72.2	53
1/16/2019	10.1	33.3	27.7	46.5					
1/17/2019								64.7	19.8 (J)
1/18/2019					8.1	30.6			
1/21/2019							0.19 (J)		
3/25/2019			31.7						
3/26/2019	9	36.1		46.3					
3/27/2019					7.7	28.8		63.1	25.1
7/30/2019							0.43		
10/7/2019			31.6						
10/8/2019									69.2
10/9/2019	10.1	17.7		51.2	6	30.1	0.18	54.2	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWB-4R	GWC-21	GWC-20	GWC-16	GWC-15	GWC-14	GWC-17	GWC-13
8/30/2016									
8/31/2016									
9/1/2016	5.59	9.91	40.5	67.2	93.8	119	194	71.9	
10/24/2016									
10/25/2016	6.43		3.91	50.1	94.1	106	100		
10/26/2016		8.56						80.3	2.25
10/27/2016									
1/3/2017									
1/4/2017			15.2	80.4	88.2				
1/5/2017						115	107	94.4	2.27
1/6/2017	8.13	8.18							
4/3/2017						131			
4/4/2017		8.12	32.3	108			153		
4/5/2017					106			104	
4/6/2017	7.72								2.04
7/10/2017									
7/11/2017				136		155	125		
7/12/2017		8			149				2.25
7/13/2017	4.57		8.92					124	
10/2/2017				105		137	126		
10/3/2017			7.88		217				
10/4/2017	6.41	12.5						136	2.19
1/9/2018	4.68		40.5			135	119		
1/10/2018				60.1	161				2.28
1/11/2018		12.9						139	
7/9/2018				75.9			123		
7/10/2018			29.8		205	129			
7/11/2018	3.9	8.6						122	2.3
1/16/2019	4.3	68.8					120	80.5	2.3
1/17/2019			27.6		187	137			
1/18/2019									
1/21/2019				60					
3/25/2019	3.9	55.6		74.8					
3/26/2019			60.1		204	124	84.2	68.8	2.4
3/27/2019									
7/30/2019									
10/7/2019									
10/8/2019	3.5		49.5		205	129	146		2.3
10/9/2019		46.7		80.1				56.6	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-12	GWC-13	GWC-11	GWC-9	GWC-2
8/30/2016	31	5.5	15	60					
8/31/2016					210	4.3	3.5	17	7.8
9/1/2016									
10/24/2016			13						
10/25/2016		5.1							
10/26/2016	24			67	200	4.9	2.5		12
10/27/2016								17	
1/3/2017	29		13						
1/4/2017		6.9			160		3.8		
1/5/2017				70		4.1			7.4
1/6/2017								16	
4/3/2017			14						
4/4/2017		6.5							8.7
4/5/2017					140				
4/6/2017	27			76		3.7	7.1	17	
7/10/2017					88				
7/11/2017			13				3.1		
7/12/2017	31	6.5		64		2.6		18	
7/13/2017									8.3
10/2/2017			15						
10/3/2017	27	4.5		73			46		9
10/4/2017					100	3		18	
1/9/2018			13	61					
1/10/2018	59	6.9				3.4			8.2
1/11/2018					78		100	16	
7/9/2018			15.4						
7/10/2018	172	6.2		60.2					7.3
7/11/2018					66.9	3.2	53.7	16.2	
1/16/2019	49.7	6.6	16	54.1		3.8			
1/17/2019					52		6.6		
1/18/2019								17.5	
1/21/2019									6.9
3/25/2019			17.7						
3/26/2019	47.9	7		51.8		3.2			
3/27/2019					45.6		11.9	18.9	
7/30/2019									7.1
10/7/2019			18						
10/8/2019						4	89		
10/9/2019	239	7.2		49.7	44.1			19	7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-14	GWC-15	GWC-16	GWC-17	GWC-21	GWC-20	GWA-7 (bg)	GWB-4R
8/30/2016									
8/31/2016	320								
9/1/2016		60	10	43	610	5.9	16	190	160
10/24/2016									
10/25/2016		36	6.5	34		4.4	8.1	175 (D)	
10/26/2016	450				570				110
10/27/2016									
1/3/2017									
1/4/2017	330			29		7.7	13		
1/5/2017		37	10		710				
1/6/2017								180	67
4/3/2017			7.3						
4/4/2017		47				8	23		80
4/5/2017				36	860				
4/6/2017	50							200	
7/10/2017									
7/11/2017	70	34	5.7				31		
7/12/2017				44					120
7/13/2017					860	5.4		200	
10/2/2017		34	4.4				30		
10/3/2017				58		4.4			
10/4/2017	360				1000			260	130
1/9/2018		24	5.7			4.4		210	
1/10/2018				36			9.7		
1/11/2018	74				940				60
7/9/2018		25.9					10.8		
7/10/2018			3.1	57		6.3			
7/11/2018	164				864			177	75.9
1/16/2019		29.2			469			165	20.2
1/17/2019			3.2	48.9		5.4			
1/18/2019	11								
1/21/2019							5.1		
3/25/2019							9.4	147	19.7
3/26/2019		21.1	3	5.1	439	11.9			
3/27/2019	11.5								
7/30/2019									
10/7/2019									
10/8/2019		40.2	2.9	46.4		7.8		125	
10/9/2019	25.3				330		5.4		32.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-1	GWC-13	GWC-22	GWC-9	GWC-11	GWC-12
8/30/2016	0.09 (J)	0.04 (J)	0.1 (J)	0.22 (J)					
8/31/2016					<0.3	0.04 (J)	0.55	<0.3	0.7
9/1/2016									
10/24/2016			0.18 (J)						
10/25/2016				<0.3					
10/26/2016	0.24 (J)	0.05 (J)			0.55	0.12 (J)		<0.3	0.91
10/27/2016							0.26 (J)		
1/3/2017		0.08 (J)	0.18 (J)						
1/4/2017				0.18 (J)		0.06 (J)		<0.3	0.51
1/5/2017	0.11 (J)				0.09 (J)				
1/6/2017							0.25 (J)		
4/3/2017			0.12 (J)						
4/4/2017				<0.3					
4/5/2017									0.71
4/6/2017	0.3	0.006 (J)			<0.3	<0.3	0.16 (J)	<0.3	
7/10/2017									0.88
7/11/2017			0.39			0.03 (J)		<0.3	
7/12/2017	0.15 (J)	0.05 (J)		0.04 (J)	<0.3		0.2 (J)		
7/13/2017									
10/2/2017			0.12 (J)						
10/3/2017	0.11 (J)	0.11 (J)		<0.3				<0.3	
10/4/2017					<0.3	0.12 (J)	0.22 (J)		0.37
1/9/2018	<0.3		0.21 (J)						
1/10/2018		<0.3		<0.3	<0.3				
1/11/2018						<0.3	0.98	<0.3	1.4
7/9/2018			0.04 (J)						
7/10/2018	<0.3	0.2 (J)		<0.3					
7/11/2018					<0.3	<0.3	0.14 (J)	<0.3	0.62
1/16/2019	0.053 (J)	<0.3	<0.3	<0.3	<0.3				
1/17/2019								<0.3	1.2
1/18/2019						<0.3	0.24 (J)		
1/21/2019									
3/25/2019			0.082 (J)						
3/26/2019	0.046 (J)	<0.3		0.051 (J)	0.052 (J)				
3/27/2019						<0.3	0.13 (J)	<0.3	0.036 (J)
7/30/2019									
8/26/2019			0.13						
8/27/2019	0.13 (J)			<0.3	<0.3	0.1		<0.3	0.3
8/28/2019		0.097 (J)					0.088 (J)		
10/7/2019			<0.3						
10/8/2019					<0.3			<0.3	
10/9/2019	<0.3	<0.3		<0.3		<0.3	0.068 (J)		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWA-7 (bg)	GWC-20	GWC-17	GWB-4R	GWC-16	GWC-15	GWC-14	GWC-21
8/30/2016									
8/31/2016	0.07 (J)								
9/1/2016		<0.3	<0.3	0.68	<0.3	0.55	<0.3	0.25 (J)	<0.3
10/24/2016									
10/25/2016		0.07 (J)	<0.3			0.36	0.5	0.43	<0.3
10/26/2016	0.62			0.68	0.05 (J)				
10/27/2016									
1/3/2017									
1/4/2017			0.04 (J)			0.1 (J)			<0.3
1/5/2017	0.17 (J)			0.73			0.22 (J)	0.21 (J)	
1/6/2017		0.2 (J)			0.08 (J)				
4/3/2017							<0.3		
4/4/2017	0.08 (J)		0.02 (J)		<0.3			0.45	<0.3
4/5/2017				1.6		0.2 (J)			
4/6/2017		0.05 (J)							
7/10/2017									
7/11/2017			0.14 (J)				0.06 (J)	0.41	
7/12/2017					0.38	0.04 (J)			
7/13/2017	0.06 (J)	0.41		1.7					<0.3
10/2/2017			<0.3				<0.3	<0.3	
10/3/2017	0.06 (J)					0.86			<0.3
10/4/2017		0.04 (J)		1.8	<0.3				
1/9/2018		0.46					<0.3	<0.3	<0.3
1/10/2018	<0.3		<0.3			<0.3			
1/11/2018				1.5	<0.3				
7/9/2018			<0.3					<0.3	
7/10/2018	<0.3					<0.3	0.15 (J)		<0.3
7/11/2018		<0.3		1.8	<0.3				
1/16/2019		0.49		1.4	1.2			<0.3	
1/17/2019						<0.3	<0.3		<0.3
1/18/2019									
1/21/2019	<0.3		<0.3						
3/25/2019		0.21 (J)	0.043 (J)		0.064 (J)				
3/26/2019				0.89		0.11 (J)	0.13 (J)	0.13 (J)	0.071 (J)
3/27/2019									
7/30/2019	0.083 (J)								
8/26/2019		<0.3							
8/27/2019	<0.3				0.031 (J)		<0.3	<0.3	
8/28/2019			<0.3	0.61		<0.3			<0.3
10/7/2019									
10/8/2019		<0.3				<0.3	<0.3	<0.3	<0.3
10/9/2019	<0.3		<0.3	<0.3	<0.3				

Prediction Limit

Constituent: pH (SU) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-20	GWC-17	GWB-6R	GWC-21	GWC-16	GWC-2	GWC-22	GWC-15
7/16/2013	4.17	6.1	4.55	5.25	5.71	4.92	4.52	4.91	5.96
10/11/2014						5.17			
10/24/2016									
10/25/2016		6.06			5.41	5.58			6.46
10/26/2016	4.04		4.45	5.21			4.48	4.6	
10/27/2016									
1/3/2017									
1/4/2017	4.01	6.05			5.6	5.51		4.63	
1/5/2017			4.45	5.2			4.85		6.25
1/6/2017									
4/3/2017									6.25
4/4/2017		6.03			5.94		4.58		
4/5/2017	4		4.33			5.51			
4/6/2017				5.17				4.79	
7/10/2017	3.89								
7/11/2017		5.96						4.73	6.5
7/12/2017				5.24		5.84			
7/13/2017			4.11		5.6		4.74		
10/2/2017		5.88							6.83
10/3/2017				5.36	5.18	5.55	4.57		
10/4/2017	4.06		4.09					4.74	
1/9/2018				5.4	6.14				6.57
1/10/2018		6.21				5.99	5.31		
1/11/2018	3.96		4.4					5.22	
7/9/2018		6.24							
7/10/2018				5.31	5.7	5.5	4.58		6.42
7/11/2018	3.95		4.07					4.68	
1/16/2019			4.05	5.99					
1/17/2019	3.89				7.39	7.13			
1/21/2019							5.05		
3/25/2019		6.28							
3/26/2019			4.62	5.94	6.08	5.57			6.65
3/27/2019	4.11							4.77	
7/30/2019							4.74		
8/26/2019									
8/27/2019	4.02			5.67			4.77	4.89	6.57
8/28/2019		6.34	4.62		6.05	5.57			
10/7/2019									
10/8/2019					6.09	5.54			6.65
10/9/2019	4.25	6.5	4.66	5.66			4.79	4.68	

Prediction Limit

Constituent: pH (SU) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-9	GWC-11	GWB-4R	GWB-5R	GWC-14	GWC-13	GWA-8 (bg)	GWA-7 (bg)
7/16/2013	5.38	5.05	5.2	6.22	5.95	4.62	4.95		
10/11/2014						4.58		4.42	
10/24/2016								4.36	
10/25/2016	5.51					4.79			6.17
10/26/2016			5.08	6.06	5.27		4.95		
10/27/2016		4.65							
1/3/2017					5.09			4.28	
1/4/2017	5.46		5.06						
1/5/2017						4.73	4.97		
1/6/2017		4.56		6.02					6.16
4/3/2017								4.29	
4/4/2017	5.43			6.08		4.68			
4/5/2017							4.81		
4/6/2017		4.5	4.97		5.22				6.26
7/10/2017									
7/11/2017			5.26			4.72		4.35	
7/12/2017	5.46	4.56		5.93	5.29		4.83		
7/13/2017									5.99
10/2/2017						5.13		4.32	
10/3/2017	5.65		5.07		5.08				
10/4/2017		4.72		5.77			4.71		6.16
1/9/2018						5.59		4.44	6.43
1/10/2018	5.67				5.83		5.17		
1/11/2018		4.34	5.18	5.98					
7/9/2018						5.11		4.4	
7/10/2018	5.71				6.42				
7/11/2018		4.68	4.82	6.01			4.49		6.1
1/16/2019	5.59			5.83	6.66	6.82			6.05
1/17/2019			4.91						
1/21/2019									
3/25/2019				5.74				4.4	6.06
3/26/2019	5.77				5.1	5.74	4.96		
3/27/2019		4.38	5.18						
7/30/2019									
8/26/2019								4.26	5.91
8/27/2019	5.84		5.17	5.7		5.58	4.9		
8/28/2019		4.68			5.95				
10/7/2019								4.24	
10/8/2019			4.93			5.68	4.81		5.74
10/9/2019	5.82	4.62		5.79	6.11				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-12	GWC-13	GWC-11	GWC-9	GWC-2
8/30/2016	100	87	140	120					
8/31/2016					1100	43	64	84	21
9/1/2016									
10/24/2016			160						
10/25/2016		83							
10/26/2016	130			120	900	29	56		100
10/27/2016								76	
1/3/2017	120		140						
1/4/2017		99			880		65		
1/5/2017				130		32			22
1/6/2017								66	
4/3/2017			140						
4/4/2017		110							29
4/5/2017					990				
4/6/2017	140			150		49	110	79	
7/10/2017					480				
7/11/2017			130				49		
7/12/2017	140	100		140		16		75	
7/13/2017									20
10/2/2017			150						
10/3/2017	130	63		140			140		20
10/4/2017					760	33		78	
1/9/2018			120	140					
1/10/2018	110	86				22			9.5
1/11/2018					780		270	110	
7/9/2018			123						
7/10/2018	48.1	77.7		128					8.5
7/11/2018					598	17.8	211	87.4	
1/16/2019	184	71.2	129	402		20.2			
1/17/2019					454		50.3		
1/18/2019								56.9	
1/21/2019									10.2
3/25/2019			152						
3/26/2019	222	73.8		319		33.6			
3/27/2019					579		76.8	76.2	
7/30/2019									12.3
10/7/2019			156						
10/8/2019						22	310		
10/9/2019	90.8	76.3		255	392			41.1	10.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/10/2019 11:08 AM View: Appendix III Interwell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-14	GWC-15	GWC-16	GWC-17	GWC-21	GWC-20	GWA-7 (bg)	GWB-4R
8/30/2016									
8/31/2016	700								
9/1/2016		730	120	430	310	36	180	73	210
10/24/2016									
10/25/2016		420	100	360		16	79	26	
10/26/2016	850				280				230
10/27/2016									
1/3/2017									
1/4/2017	680			360		45	170		
1/5/2017		430	140		310				
1/6/2017								23	220
4/3/2017			150						
4/4/2017		600				46	300		230
4/5/2017				440	460				
4/6/2017	220							25	
7/10/2017									
7/11/2017	210	400	110				400		
7/12/2017				490					210
7/13/2017					490	33		65	
10/2/2017		470	56				390		
10/3/2017				780		34			
10/4/2017	730				1100			13	290
1/9/2018		440	84			29		45	
1/10/2018				470			99		
1/11/2018	180				810				210
7/9/2018		369					99.2		
7/10/2018			43	787		33.2			
7/11/2018	381				902			37.7	177
1/16/2019		291			422			24.5	244
1/17/2019			45.2	780		24.1			
1/18/2019	107								
1/21/2019							35.5		
3/25/2019							95.6	14.7	245
3/26/2019		192	54	87.9	439	83.9			
3/27/2019	103								
7/30/2019									
10/7/2019									
10/8/2019		428	45.8	872		85.6		32.8	
10/9/2019	80.2				346		58.5		38.5

Intrawell Prediction Limit Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 12/10/2019, 12:33 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-16	6.286	10/8/2019	8.4	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWB-6R	4.2	10/9/2019	6.3	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	10/8/2019	1500	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWB-5R	559.8	10/9/2019	2010	Yes	7	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	10/9/2019	903	Yes	8	0	No	0.0004702	Param Intra 1 of 3

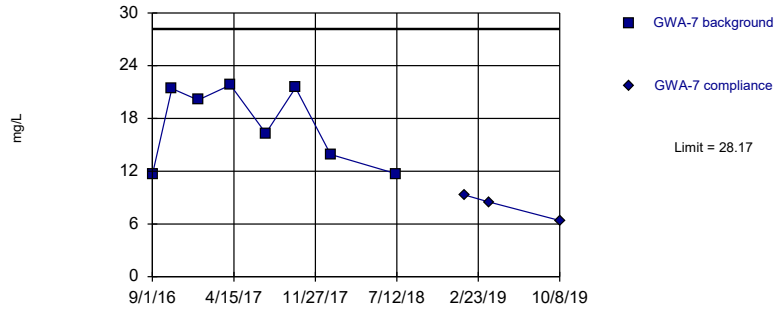
Intrawell Prediction Limit All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 12/10/2019, 12:33 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWA-7	28.17	10/8/2019	6.4	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWA-8	0.1446	10/7/2019	0.12	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-1	1.625	10/9/2019	0.93	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-11	0.3714	10/8/2019	0.22	No	8	0	ln(x)	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-12	9.63	10/9/2019	8.2	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-13	0.3009	10/8/2019	0.18	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-14	0.08961	10/8/2019	0.048	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-15	1.943	10/8/2019	1.1	No	7	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-16	6.286	10/8/2019	8.4	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-17	1.869	10/9/2019	1.3	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-2	0.05241	10/9/2019	0.024	No	8	0	sqrt(x)	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-20	5.558	10/9/2019	0.79	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-21	1.031	10/8/2019	1	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-22	16.9	10/9/2019	0.39	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWC-9	0.03214	10/9/2019	0.019	No	7	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWB-4R	9.727	10/9/2019	5.7	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWB-5R	7.397	10/9/2019	6.8	No	8	0	No	0.0004702	Param Intra 1 of 3
Boron (mg/L)	GWB-6R	4.2	10/9/2019	6.3	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-7	4478	10/8/2019	1840	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWA-8	384.6	10/7/2019	275	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-1	460.5	10/9/2019	338	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	760	10/8/2019	613	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	1845	10/9/2019	647	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	150.3	10/8/2019	51	No	8	25	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	1226	10/8/2019	841	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	672	10/8/2019	526	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	10/8/2019	1500	Yes	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	2945	10/9/2019	1100	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-2	157.3	10/9/2019	46	No	8	12.5	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	1016	10/9/2019	434	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	328.6	10/8/2019	278	No	8	12.5	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	2575	10/9/2019	211	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	272.4	10/9/2019	128	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWB-4R	1282	10/9/2019	502	No	8	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWB-5R	559.8	10/9/2019	2010	Yes	7	0	No	0.0004702	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	10/9/2019	903	Yes	8	0	No	0.0004702	Param Intra 1 of 3

Within Limit

Boron
Intrawell Parametric

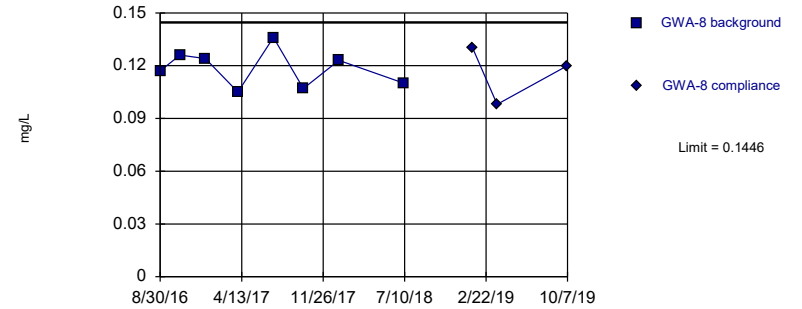


Background Data Summary: Mean=17.29, Std. Dev.=4.455, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8385, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

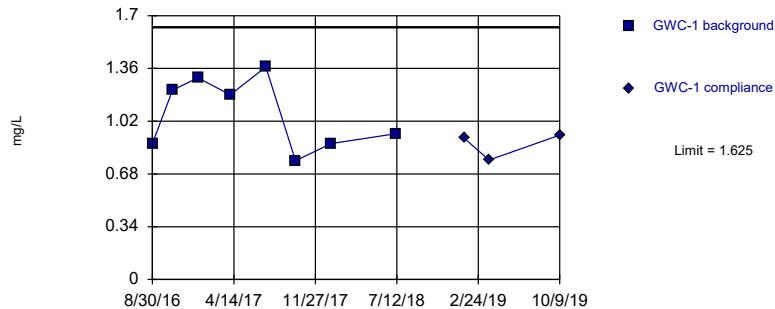


Background Data Summary: Mean=0.1185, Std. Dev.=0.0107, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

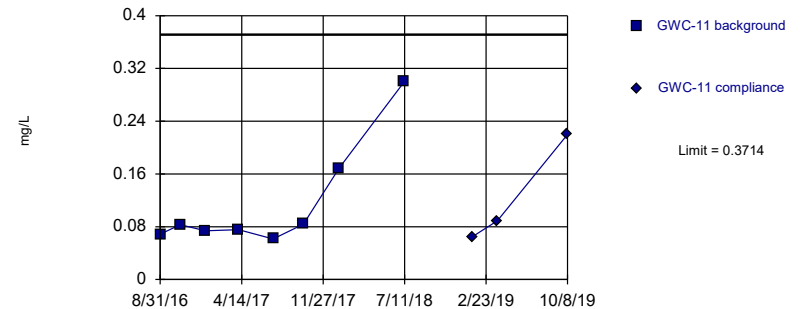


Background Data Summary: Mean=1.067, Std. Dev.=0.2284, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

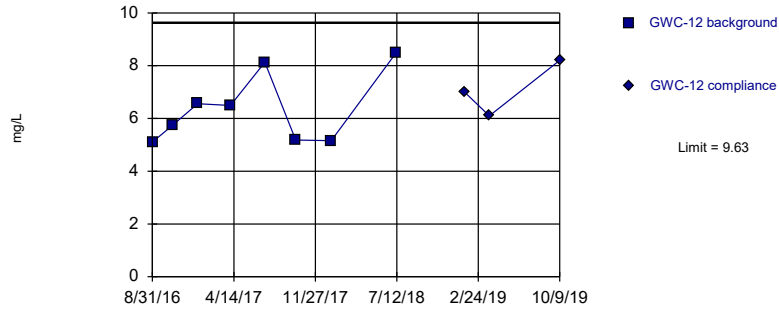


Background Data Summary (based on natural log transformation): Mean=-2.326, Std. Dev.=0.5469, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7728, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron Intrawell Parametric

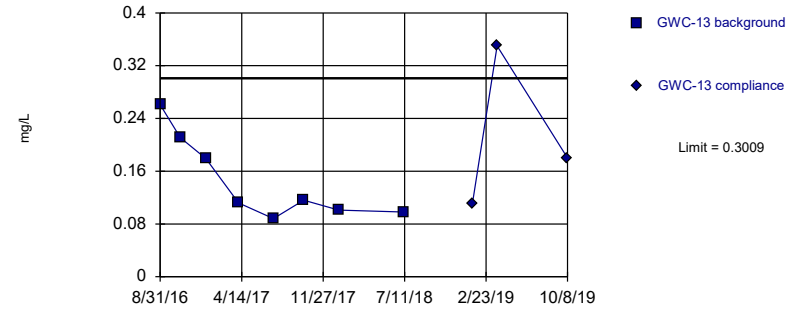


Background Data Summary: Mean=6.358, Std. Dev.=1.34, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8556, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron Intrawell Parametric

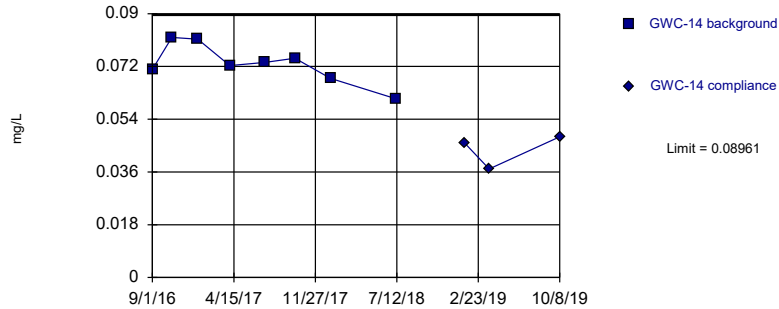


Background Data Summary: Mean=0.1458, Std. Dev.=0.06354, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8407, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron Intrawell Parametric

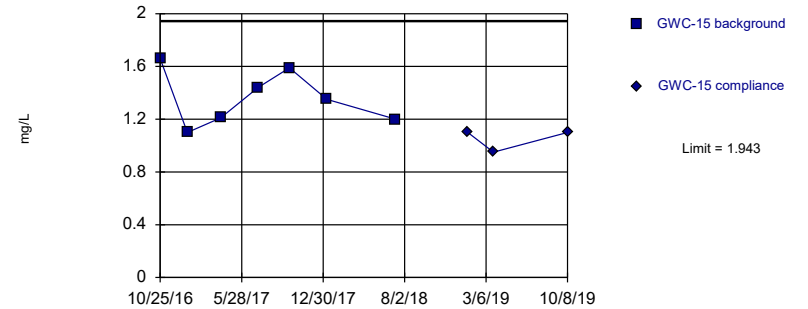


Background Data Summary: Mean=0.07295, Std. Dev.=0.006824, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron Intrawell Parametric

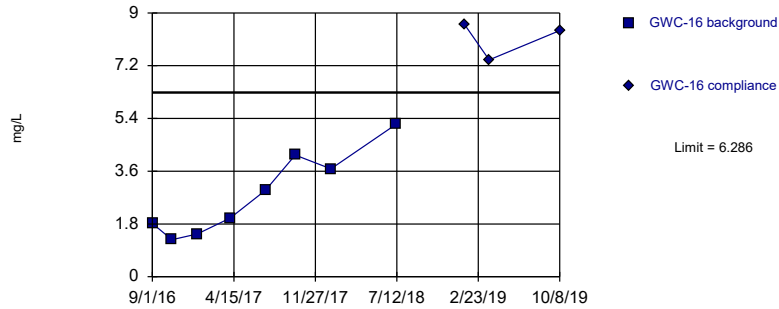


Background Data Summary: Mean=1.364, Std. Dev.=0.2101, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Boron
Intrawell Parametric

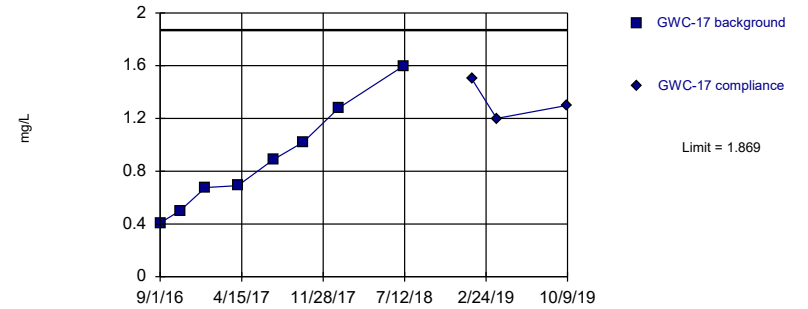


Background Data Summary: Mean=2.815, Std. Dev.=1.422, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9229, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

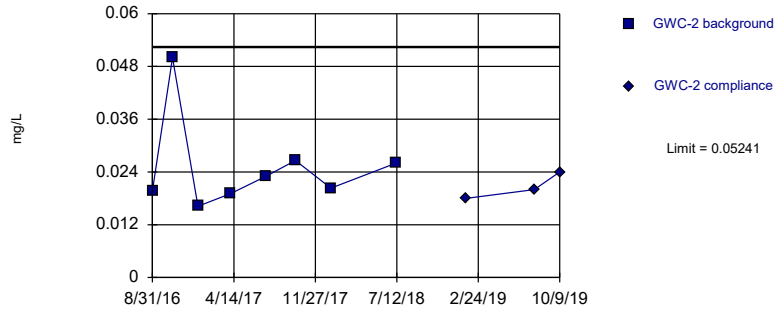


Background Data Summary: Mean=0.8828, Std. Dev.=0.4041, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

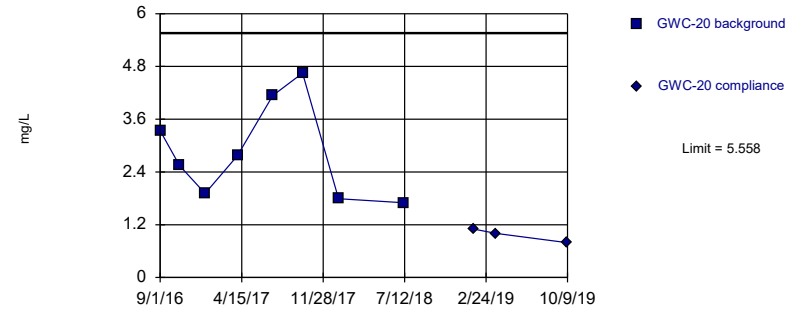


Background Data Summary (based on square root transformation): Mean=0.1559, Std. Dev.=0.02991, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.794, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

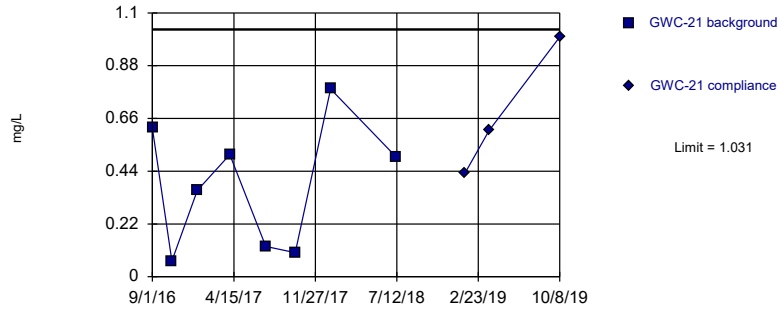


Background Data Summary: Mean=2.855, Std. Dev.=1.107, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9083, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

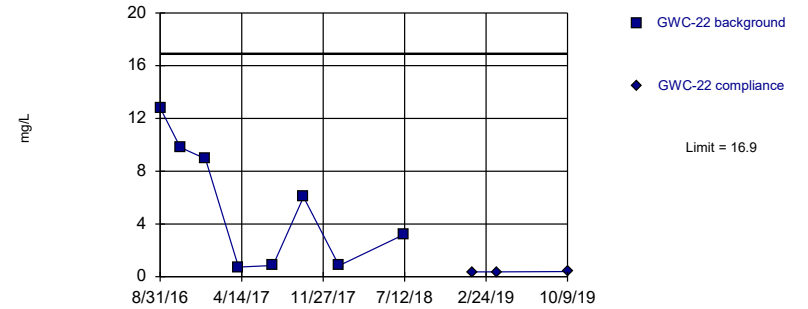


Background Data Summary: Mean=0.383, Std. Dev.=0.2654, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

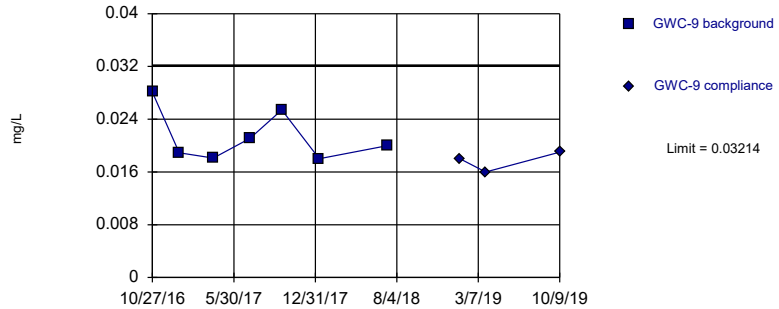


Background Data Summary: Mean=5.403, Std. Dev.=4.71, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8833, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

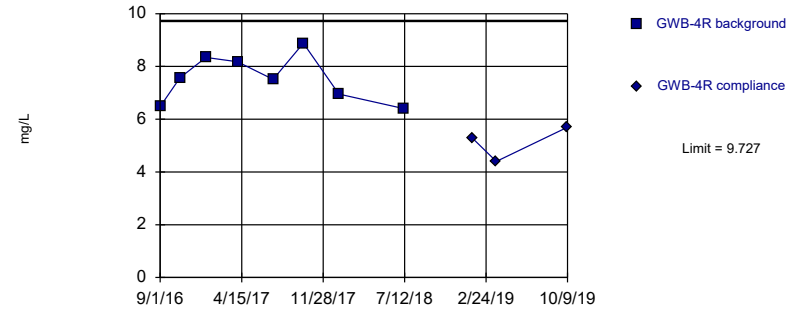


Background Data Summary: Mean=0.02137, Std. Dev.=0.003908, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8482, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

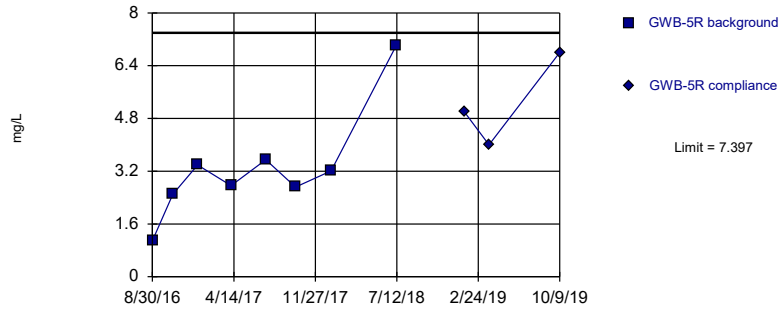


Background Data Summary: Mean=7.539, Std. Dev.=0.8959, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9474, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Boron
Intrawell Parametric

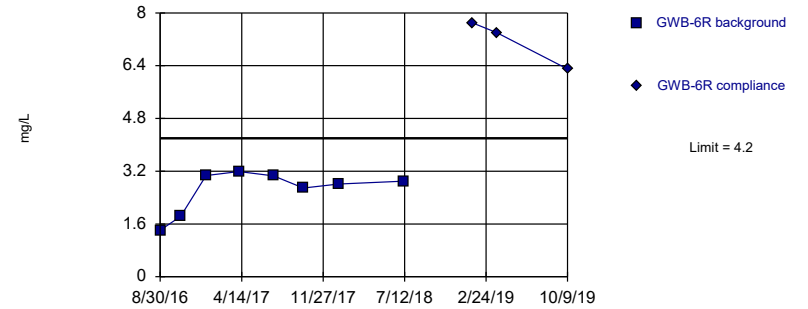


Background Data Summary: Mean=3.278, Std. Dev.=1.687, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.824, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Boron
Intrawell Parametric

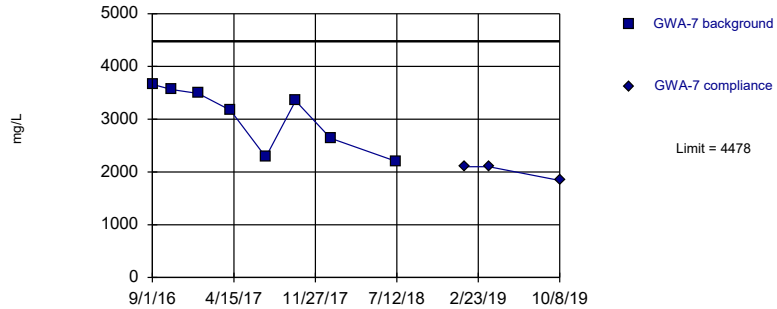


Background Data Summary: Mean=2.62, Std. Dev.=0.6468, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8089, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

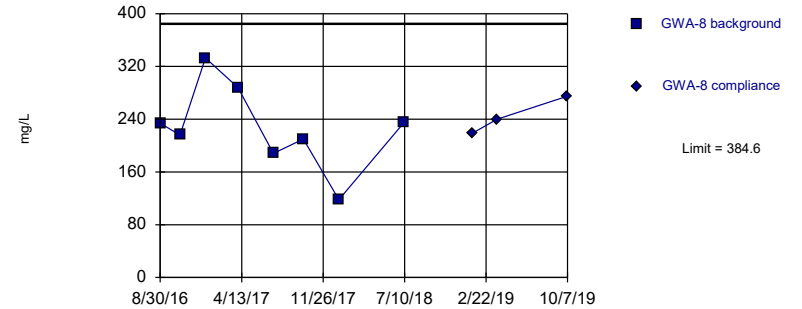


Background Data Summary: Mean=3044, Std. Dev.=587.2, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8674, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

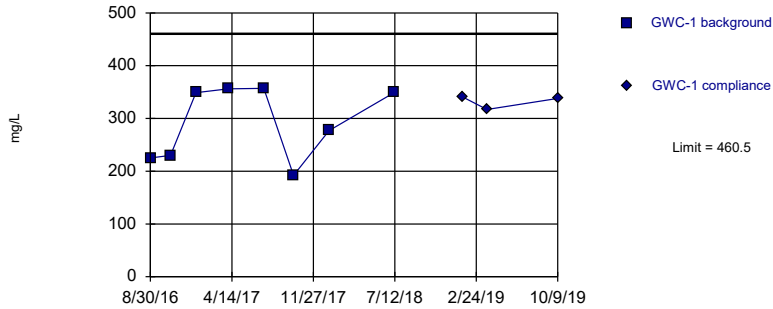


Background Data Summary: Mean=227.8, Std. Dev.=64.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9672, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

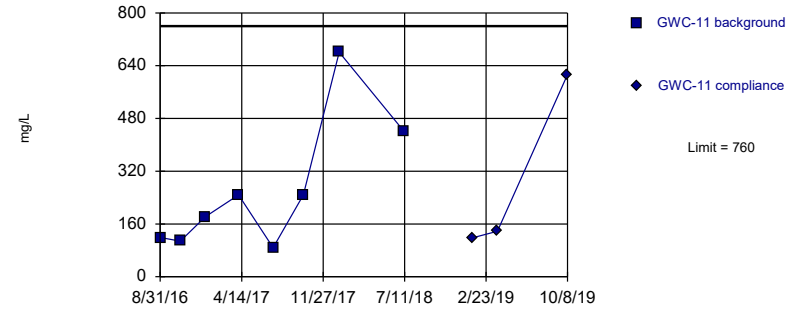


Background Data Summary: Mean=291.9, Std. Dev.=69.05, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8265, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:09 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

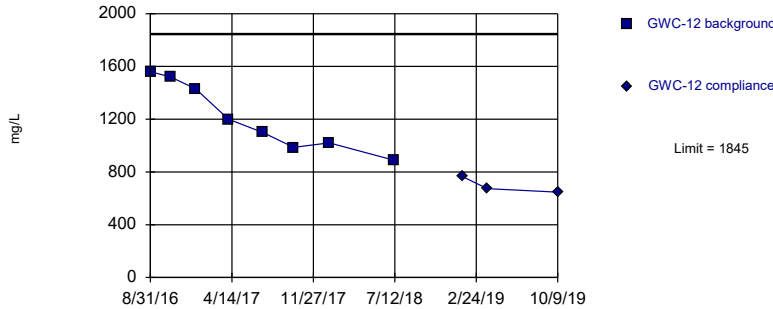


Background Data Summary: Mean=264.3, Std. Dev.=203, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8328, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

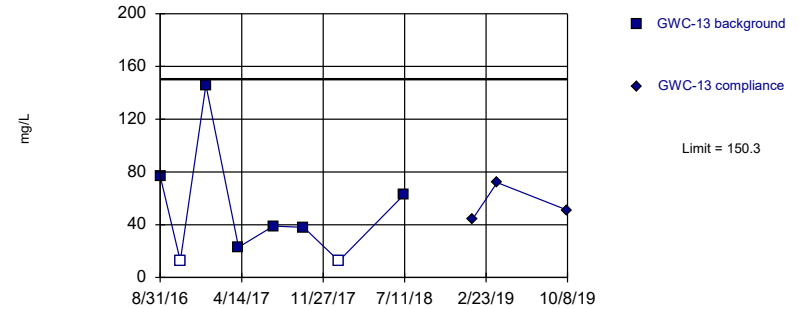


Background Data Summary: Mean=1213, Std. Dev.=258.9, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9083, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

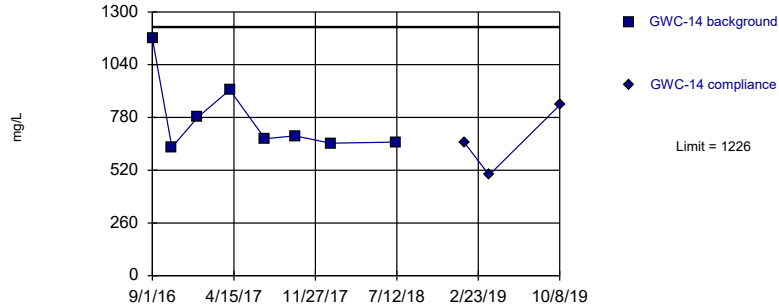


Background Data Summary (after Kaplan-Meier Adjustment): Mean=54, Std. Dev.=39.43, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8424, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids Intrawell Parametric

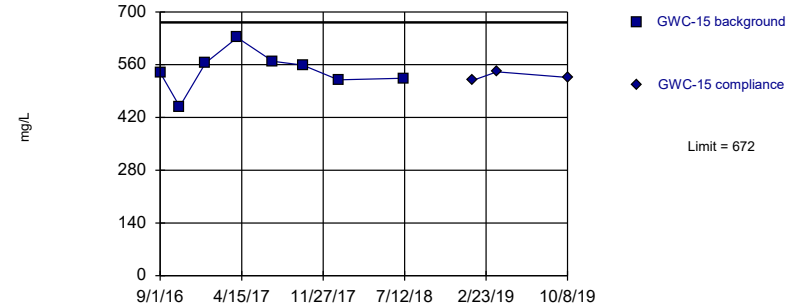


Background Data Summary: Mean=772, Std. Dev.=185.8, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7657, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids Intrawell Parametric

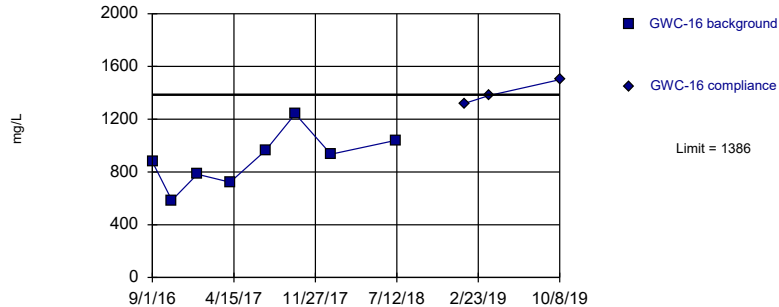


Background Data Summary: Mean=544.6, Std. Dev.=52.18, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9496, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Total Dissolved Solids Intrawell Parametric

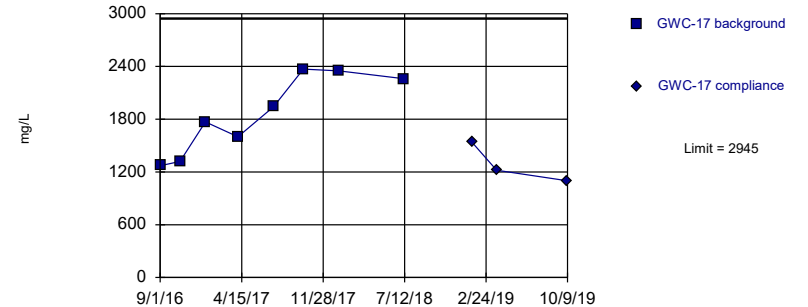


Background Data Summary: Mean=893.1, Std. Dev.=201.8, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.991, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids Intrawell Parametric

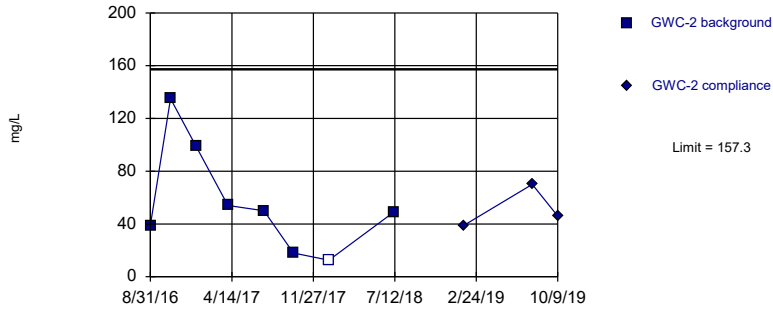


Background Data Summary: Mean=1860, Std. Dev.=444.3, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

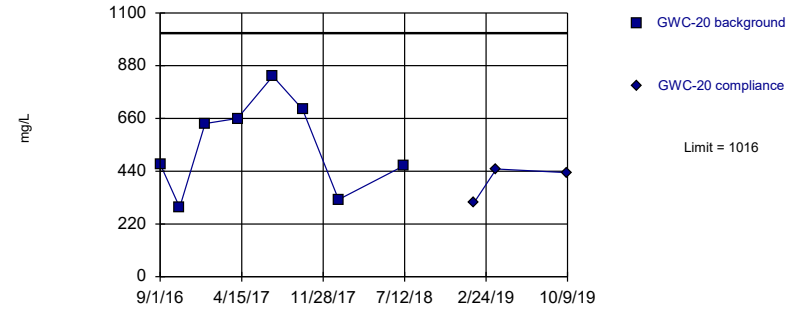


Background Data Summary: Mean=57.06, Std. Dev.=41.05, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8896, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

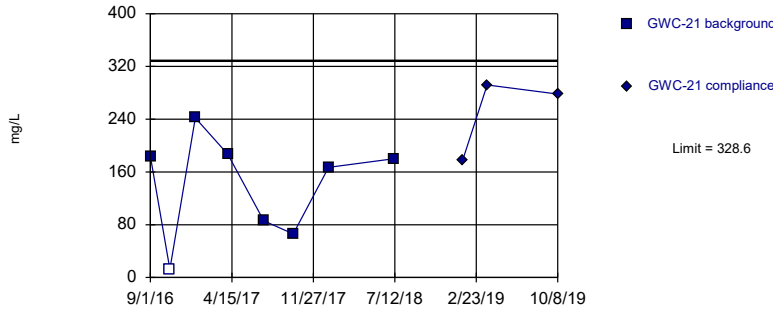


Background Data Summary: Mean=546.9, Std. Dev.=192, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

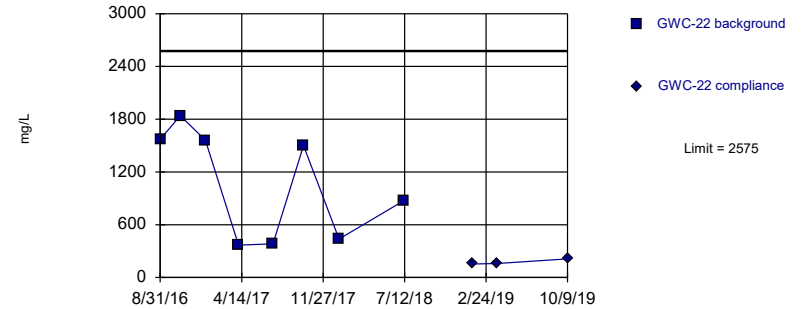


Background Data Summary: Mean=140.6, Std. Dev.=77.02, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

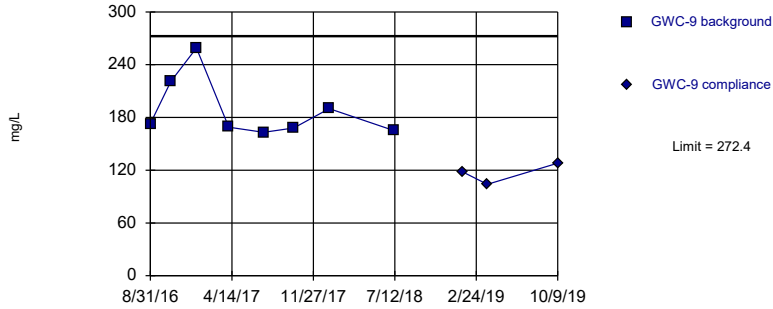


Background Data Summary: Mean=1067, Std. Dev.=617.6, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8394, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

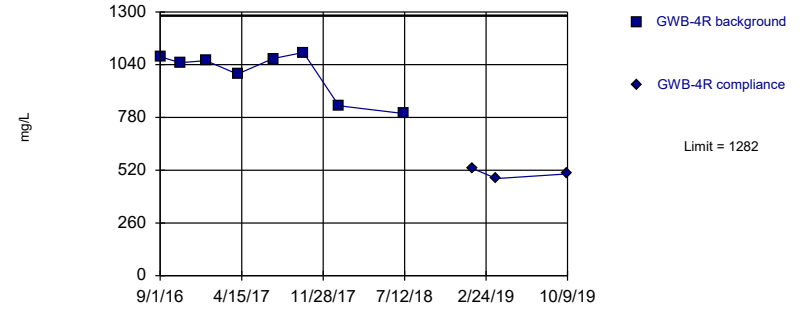


Background Data Summary: Mean=188.5, Std. Dev.=34.38, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7713, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Total Dissolved Solids
Intrawell Parametric

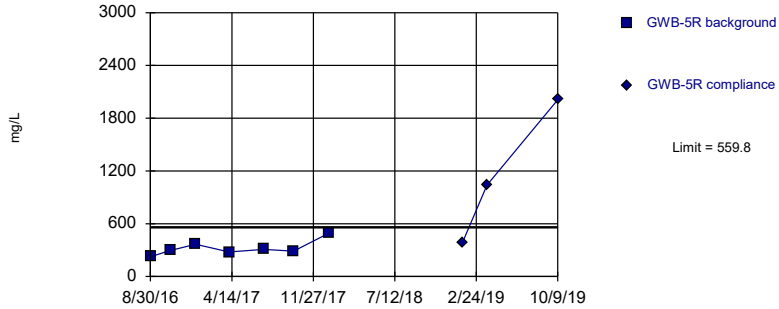


Background Data Summary: Mean=998.9, Std. Dev.=115.9, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7896, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Total Dissolved Solids
Intrawell Parametric

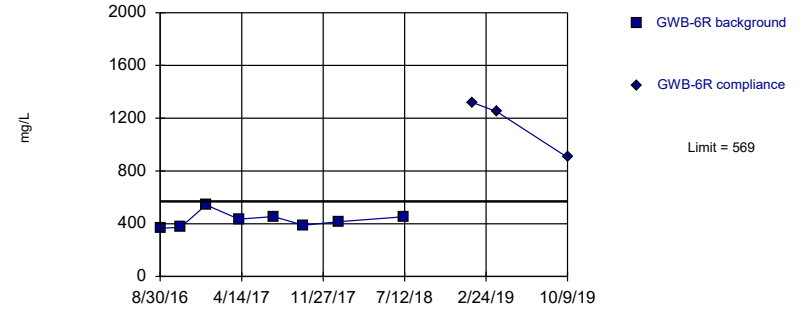


Background Data Summary: Mean=322.1, Std. Dev.=86.22, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8686, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Total Dissolved Solids
Intrawell Parametric



Background Data Summary: Mean=428.3, Std. Dev.=57.63, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Prediction Limit Analysis Run 12/10/2019 11:10 AM View: Appendix III Intrawell PL
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Boron Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7	GWA-8	GWA-8	GWC-1	GWC-1	GWC-11	GWC-11
8/30/2016			0.117		0.875			
8/31/2016							0.0688 (J)	
9/1/2016	11.6							
10/24/2016			0.126					
10/25/2016	21.4				1.22			
10/26/2016							0.083 (J)	
1/3/2017			0.124					
1/4/2017					1.3		0.0738	
1/6/2017	20.1							
4/3/2017			0.105					
4/4/2017					1.19			
4/6/2017	21.8						0.0754	
7/11/2017			0.136				0.0614	
7/12/2017					1.37			
7/13/2017	16.3							
10/2/2017			0.107					
10/3/2017					0.765		0.0838	
10/4/2017	21.5							
1/9/2018	13.9		0.123					
1/10/2018					0.876			
1/11/2018							0.169	
7/9/2018			0.11					
7/10/2018					0.94			
7/11/2018	11.7						0.3	
1/16/2019		9.3		0.13		0.91		
1/17/2019								0.065
3/25/2019		8.5		0.098				
3/26/2019						0.77		
3/27/2019								0.089
10/7/2019				0.12				
10/8/2019		6.4						0.22
10/9/2019						0.93		

Prediction Limit

Constituent: Boron Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12	GWC-13	GWC-13	GWC-14	GWC-14	GWC-15	GWC-15
8/31/2016	5.1		0.261					
9/1/2016					0.071 (J)			
10/25/2016					0.0819 (J)		1.66	
10/26/2016	5.74		0.211					
1/4/2017	6.56							
1/5/2017			0.179		0.0813		1.1	
4/3/2017							1.21	
4/4/2017					0.0723			
4/5/2017	6.49							
4/6/2017			0.112					
7/10/2017	8.13							
7/11/2017					0.0734		1.44	
7/12/2017			0.0882					
10/2/2017					0.0748		1.59	
10/4/2017	5.18		0.116					
1/9/2018					0.0679		1.35	
1/10/2018			0.101					
1/11/2018	5.16							
7/9/2018					0.061			
7/10/2018							1.2	
7/11/2018	8.5		0.098					
1/16/2019				0.11		0.046		
1/17/2019		7						1.1
3/26/2019				0.35		0.037 (J)		0.95
3/27/2019		6.1						
10/8/2019				0.18		0.048		1.1
10/9/2019		8.2						

Prediction Limit

Constituent: Boron Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16	GWC-17	GWC-17	GWC-2	GWC-2	GWC-20	GWC-20
8/31/2016					0.0196 (J)			
9/1/2016	1.82		0.408				3.34	
10/25/2016	1.26						2.54	
10/26/2016			0.5		0.05 (J)			
1/4/2017	1.46						1.91	
1/5/2017			0.676		0.0162 (J)			
4/4/2017					0.019 (J)		2.77	
4/5/2017	2		0.69					
7/11/2017							4.14	
7/12/2017	2.95							
7/13/2017			0.888		0.023 (J)			
10/2/2017							4.65	
10/3/2017	4.15				0.0266 (J)			
10/4/2017			1.02					
1/10/2018	3.68				0.0203 (J)		1.79	
1/11/2018			1.28					
7/9/2018							1.7	
7/10/2018	5.2				0.026 (J)			
7/11/2018			1.6					
1/16/2019				1.5				
1/17/2019		8.6						
1/21/2019						0.018 (J)		1.1
3/25/2019								1
3/26/2019		7.4		1.2				
7/30/2019						0.02 (J)		
10/8/2019		8.4						
10/9/2019				1.3		0.024 (J)		0.79

Prediction Limit

Constituent: Boron Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21	GWC-22	GWC-22	GWC-9	GWC-9	GWB-4R	GWB-4R
8/31/2016			12.8					
9/1/2016	0.62						6.48	
10/25/2016	0.0658 (J)							
10/26/2016			9.81				7.57	
10/27/2016					0.0281 (J)			
1/4/2017	0.36		8.94					
1/6/2017					0.0189 (J)		8.34	
4/4/2017	0.509						8.18	
4/6/2017			0.733		0.0181 (J)			
7/11/2017			0.852					
7/12/2017					0.0211 (J)		7.51	
7/13/2017	0.126							
10/3/2017	0.1							
10/4/2017			6.05		0.0254 (J)		8.88	
1/9/2018	0.783							
1/11/2018			0.838		0.018 (J)		6.95	
7/10/2018	0.5							
7/11/2018			3.2		0.02 (J)		6.4	
1/16/2019								5.3
1/17/2019		0.43						
1/18/2019				0.37		0.018 (J)		
3/25/2019								4.4
3/26/2019		0.61						
3/27/2019				0.37		0.016 (J)		
10/8/2019		1						
10/9/2019				0.39		0.019 (J)		5.7

Prediction Limit

Constituent: Boron, T Total Dissolved Solids Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R	GWB-6R	GWB-6R	GWA-7	GWA-7	GWA-8	GWA-8
8/30/2016	1.09		1.41				234	
9/1/2016					3660			
10/24/2016							216	
10/25/2016					3560			
10/26/2016	2.5		1.83					
1/3/2017	3.39						333	
1/5/2017			3.07					
1/6/2017					3490			
4/3/2017							288	
4/6/2017	2.76		3.19		3170			
7/11/2017							188	
7/12/2017	3.55		3.06					
7/13/2017					2280			
10/2/2017							210	
10/3/2017	2.72		2.69					
10/4/2017					3350			
1/9/2018			2.81		2640		118	
1/10/2018	3.21							
7/9/2018							235	
7/10/2018	7		2.9					
7/11/2018					2200			
1/16/2019		5		7.7		2100		219
3/25/2019						2100		240
3/26/2019		4		7.4				
10/7/2019								275
10/8/2019						1840		
10/9/2019		6.8		6.3				

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1	GWC-11	GWC-11	GWC-12	GWC-12	GWC-13	GWC-13
8/30/2016	225							
8/31/2016			119		1560		77	
10/25/2016	230							
10/26/2016			108		1520		<25	
1/4/2017	349		182		1430			
1/5/2017							146	
4/4/2017	356							
4/5/2017					1200			
4/6/2017			248				23 (J)	
7/10/2017					1100			
7/11/2017			88					
7/12/2017	357						39	
10/3/2017	192		248					
10/4/2017					986		38	
1/10/2018	277						<25	
1/11/2018			681		1020			
7/10/2018	349							
7/11/2018			440		888		63	
1/16/2019		341						44
1/17/2019				118		765		
3/26/2019		317						72
3/27/2019				138		673		
10/8/2019				613				51
10/9/2019		338				647		

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/10/2019 12:33 PM View: Appendix III IntraWell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2	GWC-20	GWC-20	GWC-21	GWC-21	GWC-22	GWC-22
8/31/2016	39						1570	
9/1/2016			470		184			
10/25/2016			289		<25			
10/26/2016	135						1840	
1/4/2017			639		242		1560	
1/5/2017	99							
4/4/2017	54		660		187			
4/6/2017							368	
7/11/2017			836				383	
7/13/2017	50				86			
10/2/2017			698					
10/3/2017	18 (J)				66			
10/4/2017							1500	
1/9/2018					167			
1/10/2018	<25		322					
1/11/2018							438	
7/9/2018			461					
7/10/2018	49				180			
7/11/2018							876	
1/17/2019						178		
1/18/2019								154
1/21/2019		39		307				
3/25/2019				449				
3/26/2019						292		
3/27/2019								158
7/30/2019		70						
10/8/2019						278		
10/9/2019		46		434				211

Prediction Limit

Constituent: Total Dissolved Solids Analysis Run 12/10/2019 12:33 PM View: Appendix III Intrawell PL

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9	GWB-4R	GWB-4R	GWB-5R	GWB-5R	GWB-6R	GWB-6R
8/30/2016					224		365	
8/31/2016	173							
9/1/2016			1080					
10/26/2016			1050		297		373	
10/27/2016	221							
1/3/2017					366			
1/5/2017							543	
1/6/2017	259		1060					
4/4/2017			994					
4/6/2017	169				279		434	
7/12/2017	163		1070		308		454	
10/3/2017					288		389	
10/4/2017	168		1100					
1/9/2018							415	
1/10/2018					493			
1/11/2018	190		838					
7/10/2018							453	
7/11/2018	165		799					
1/16/2019				530		382		1320
1/18/2019		118						
3/25/2019				479				
3/26/2019						1040		1250
3/27/2019		104						
10/9/2019		128		502		2010		903

CCR Trend Test Significant Results

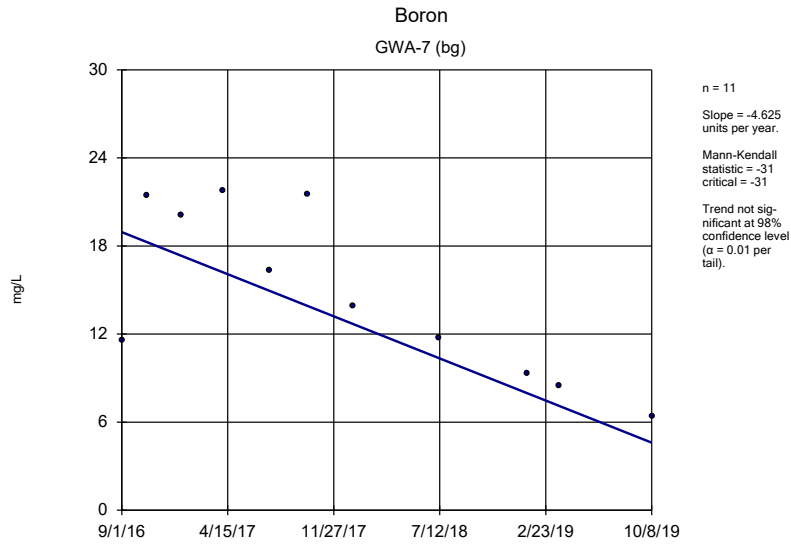
Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 4:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-16	2.432	45	31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWA-7 (bg)	-1.048	-36	-31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-1	7.011	39	31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-12	-15.88	-53	-31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-16	42.34	36	31	Yes	11	0	n/a	0.02	NP
Chloride (mg/L)	GWA-8 (bg)	1.474	32	31	Yes	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-12	-186.1	-39	-31	Yes	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-604.9	-48	-31	Yes	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWC-16	263.8	41	31	Yes	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWB-5R	280	31	27	Yes	10	0	n/a	0.02	NP

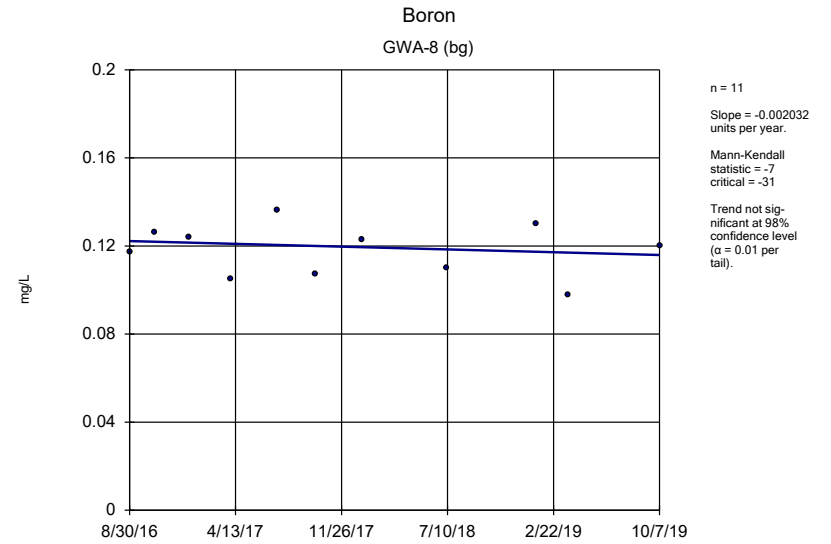
CCR Trend Test All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 2/17/2020, 4:15 PM

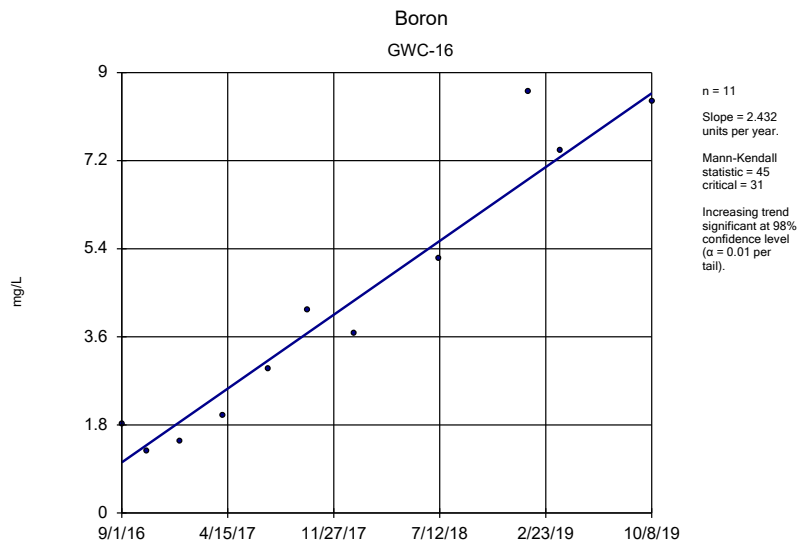
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWA-7 (bg)	-4.625	-31	-31	No	11	0	n/a	0.02	NP
Boron (mg/L)	GWA-8 (bg)	-0.002032	-7	-31	No	11	0	n/a	0.02	NP
Boron (mg/L)	GWC-16	2.432	45	31	Yes	11	0	n/a	0.02	NP
Boron (mg/L)	GWB-6R	1.513	27	31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWA-7 (bg)	-1.048	-36	-31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWA-8 (bg)	2.477	30	31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-1	7.011	39	31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-11	15.28	29	31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-12	-15.88	-53	-31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-14	-3.911	-7	-31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-15	4.056	11	31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-16	42.34	36	31	Yes	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-17	-1.209	-1	-31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-20	-0.09707	-1	-31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWC-21	10.62	18	31	No	11	0	n/a	0.02	NP
Calcium (mg/L)	GWB-4R	6.187	23	31	No	11	0	n/a	0.02	NP
Chloride (mg/L)	GWA-7 (bg)	-16.93	-18	-31	No	11	0	n/a	0.02	NP
Chloride (mg/L)	GWA-8 (bg)	1.474	32	31	Yes	11	0	n/a	0.02	NP
Chloride (mg/L)	GWC-17	-66.68	-8	-31	No	11	0	n/a	0.02	NP
pH (SU)	GWA-7 (bg)	-0.09485	-30	-31	No	11	0	n/a	0.02	NP
pH (SU)	GWA-8 (bg)	-0.0145	-12	-31	No	11	0	n/a	0.02	NP
pH (SU)	GWC-15	0.09971	30	31	No	11	0	n/a	0.02	NP
pH (SU)	GWC-20	0.1036	25	31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-7 (bg)	-5.236	-13	-31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWA-8 (bg)	0	-2	-31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-11	77.02	21	31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-12	-186.1	-39	-31	Yes	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-14	-97.38	-27	-31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-16	147.2	25	31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWC-17	58.13	14	31	No	11	0	n/a	0.02	NP
Sulfate (mg/L)	GWB-6R	41.84	29	31	No	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-604.9	-48	-31	Yes	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWA-8 (bg)	1.345	3	31	No	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWC-16	263.8	41	31	Yes	11	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWB-5R	280	31	27	Yes	10	0	n/a	0.02	NP
Total Dissolved Solids (mg/L)	GWB-6R	115	29	31	No	11	0	n/a	0.02	NP



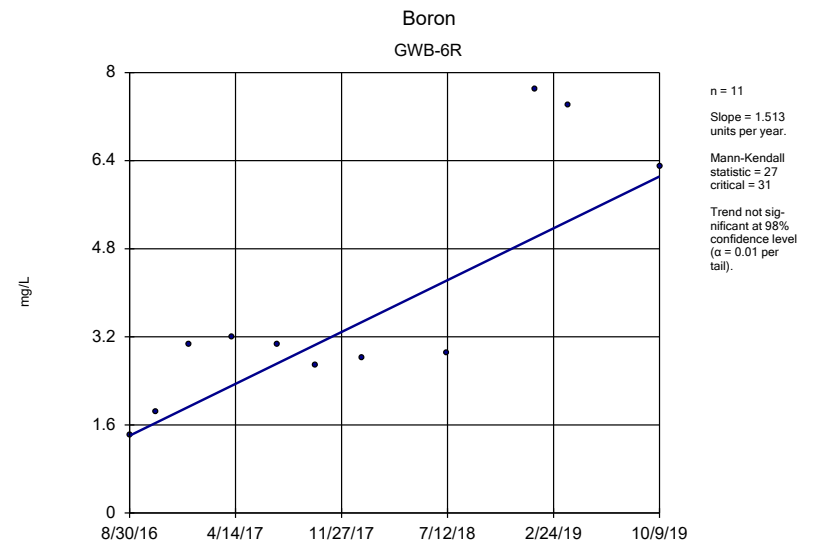
Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

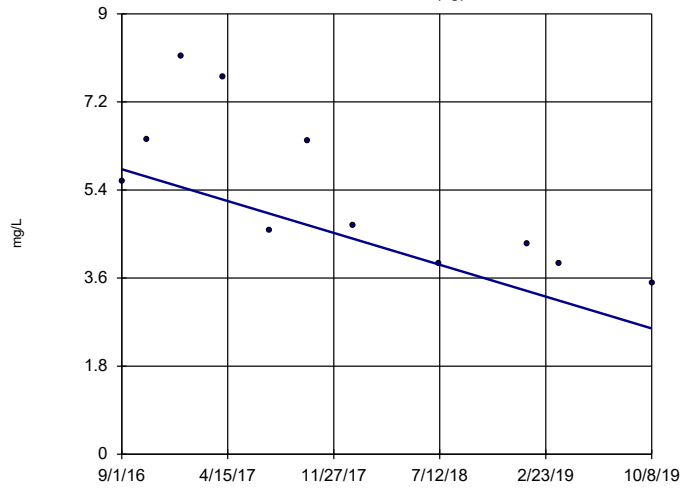


Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

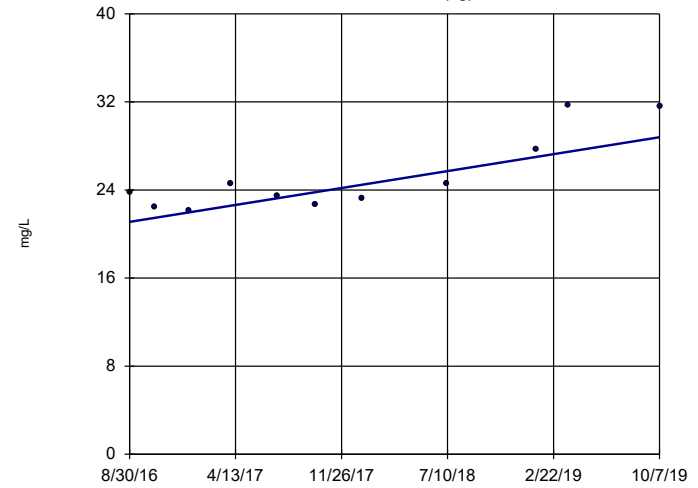
Calcium GWA-7 (bg)



n = 11
 Slope = -1.048
 units per year.
 Mann-Kendall
 statistic = -36
 critical = -31
 Decreasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

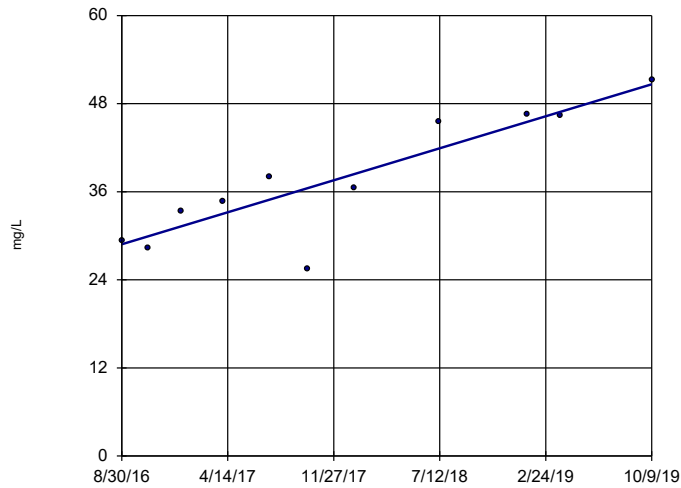
Calcium GWA-8 (bg)



n = 11
 Slope = 2.477
 units per year.
 Mann-Kendall
 statistic = 30
 critical = 31
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

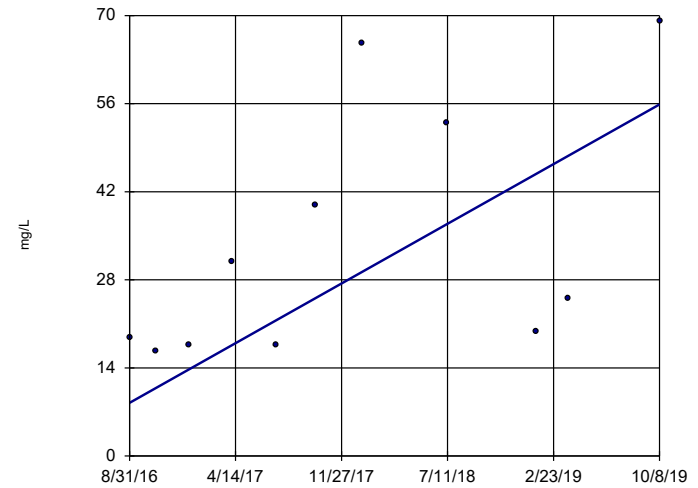
Calcium GWC-1



n = 11
 Slope = 7.011
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 31
 Increasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

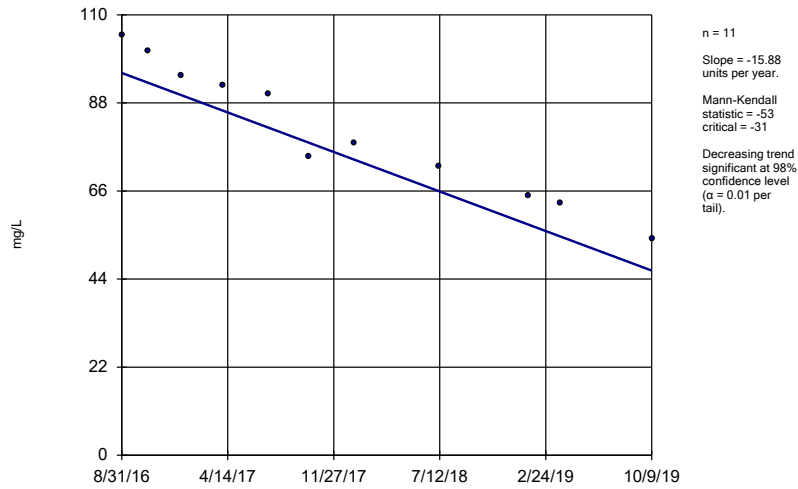
Calcium GWC-11



n = 11
 Slope = 15.28
 units per year.
 Mann-Kendall
 statistic = 29
 critical = 31
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

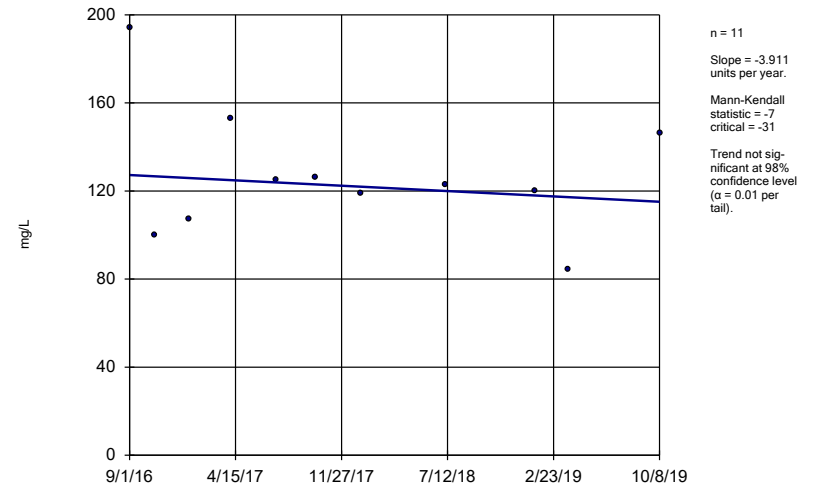
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium GWC-12



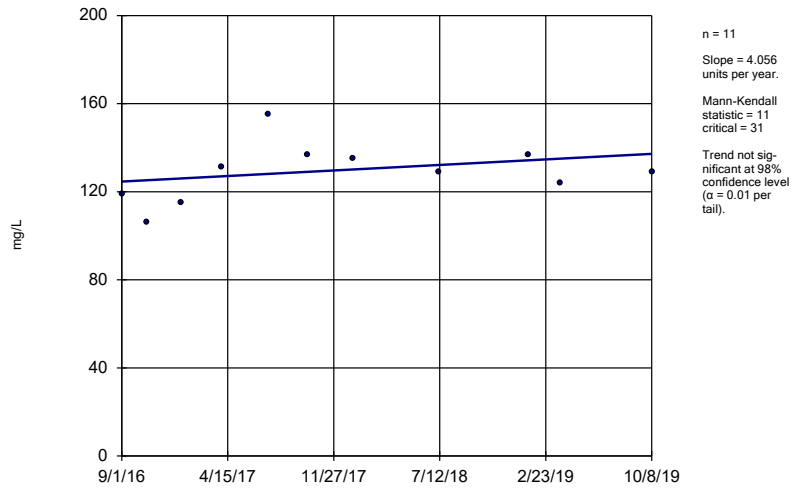
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium GWC-14



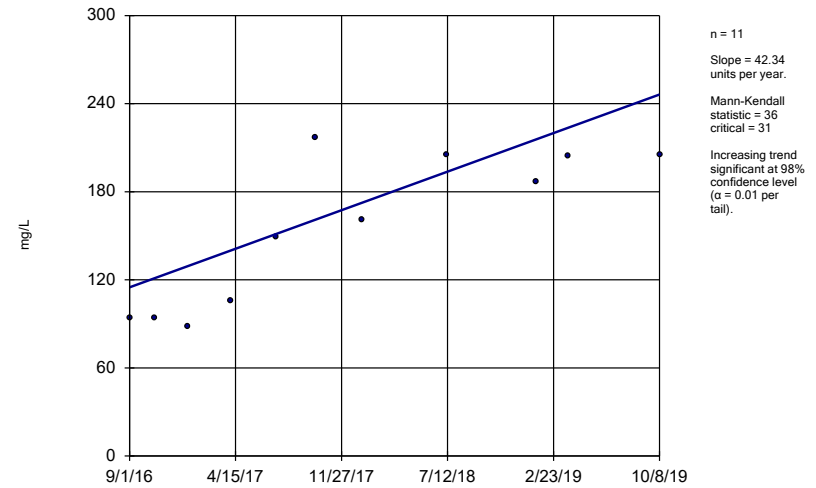
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium GWC-15



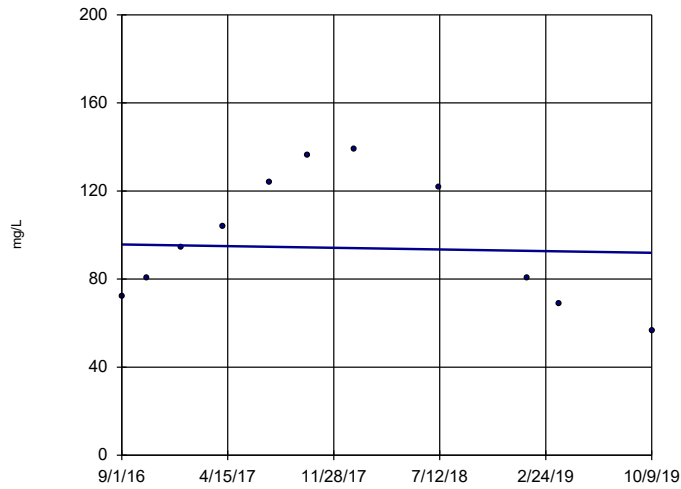
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium GWC-16



Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

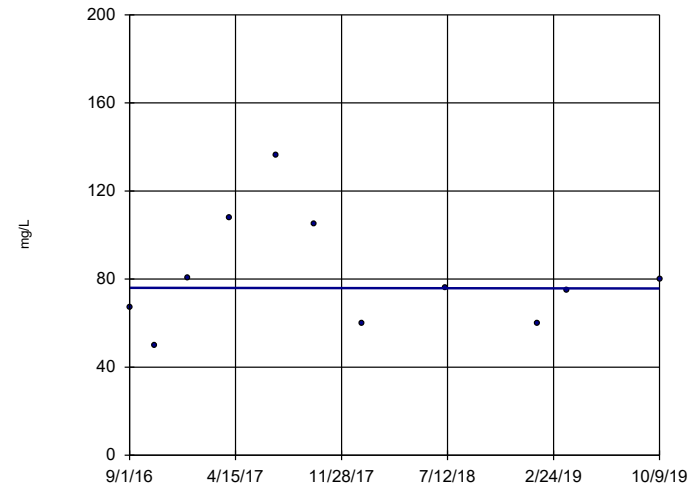
Calcium GWC-17



n = 11
 Slope = -1.209
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -31
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

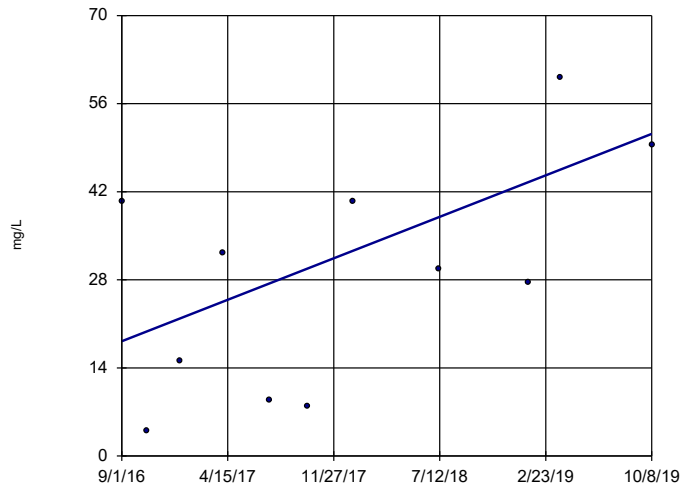
Calcium GWC-20



n = 11
 Slope = -0.09707
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -31
 Trend not sig-
 nificant at 98%
 confidence level
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 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:13 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

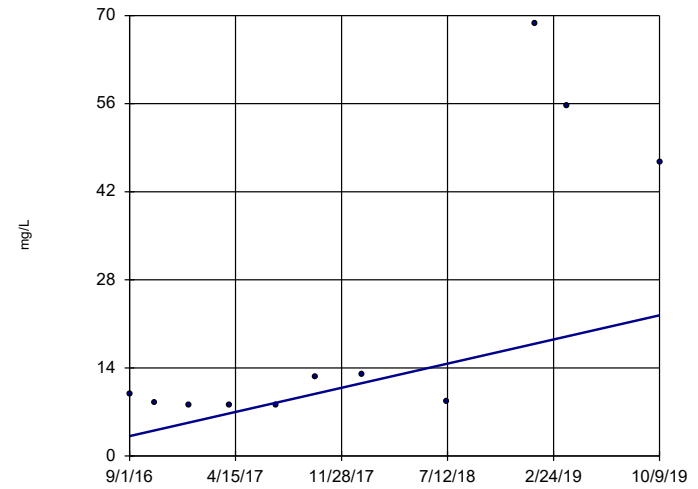
Calcium GWC-21



n = 11
 Slope = 10.62
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 31
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

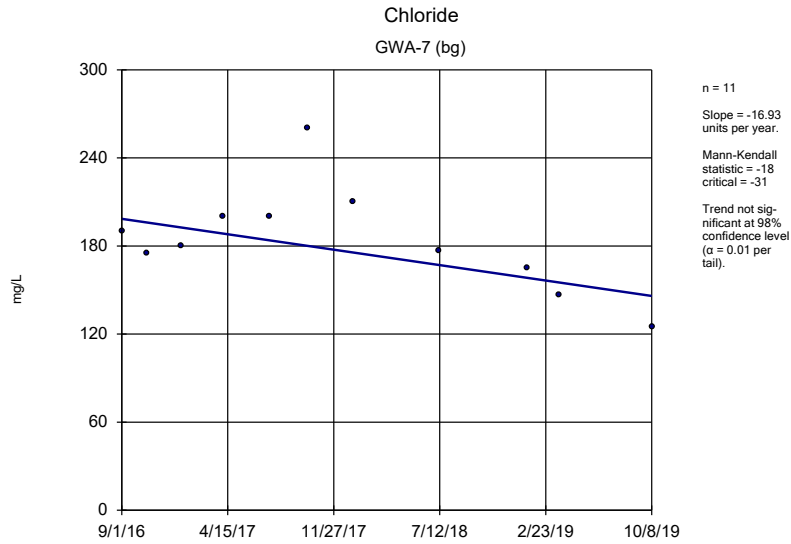
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium GWB-4R

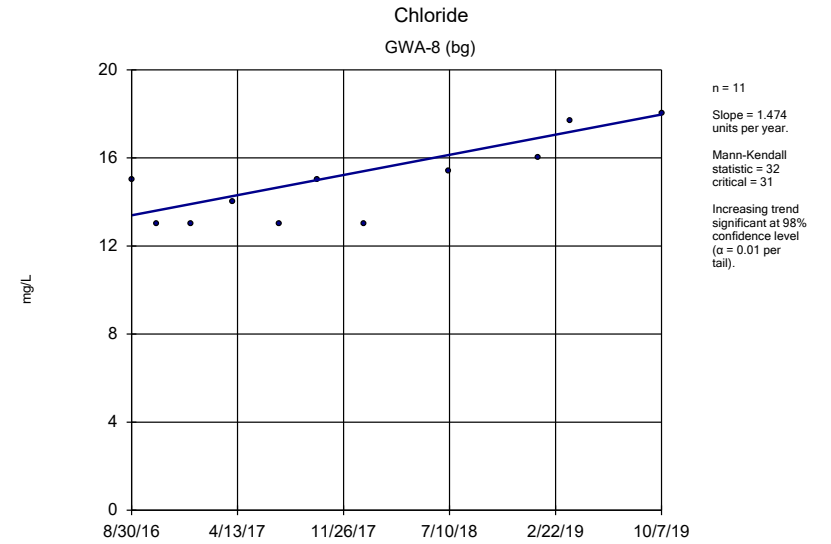


n = 11
 Slope = 6.187
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 31
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

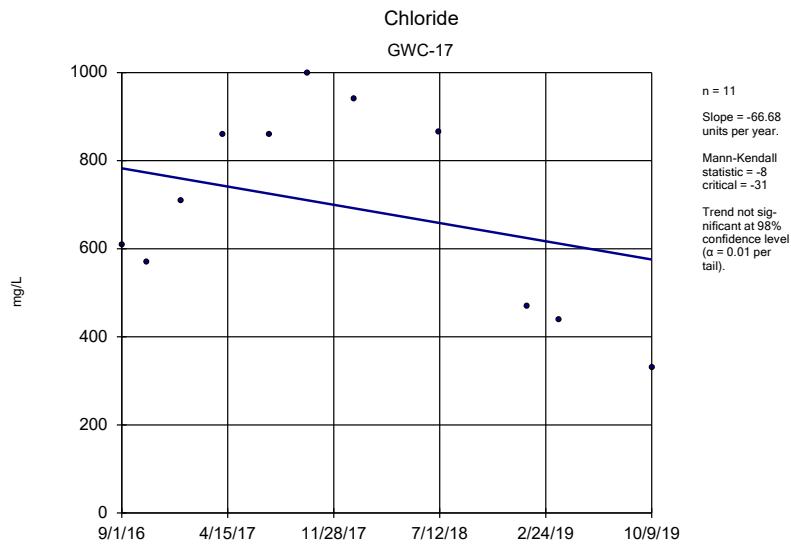
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road



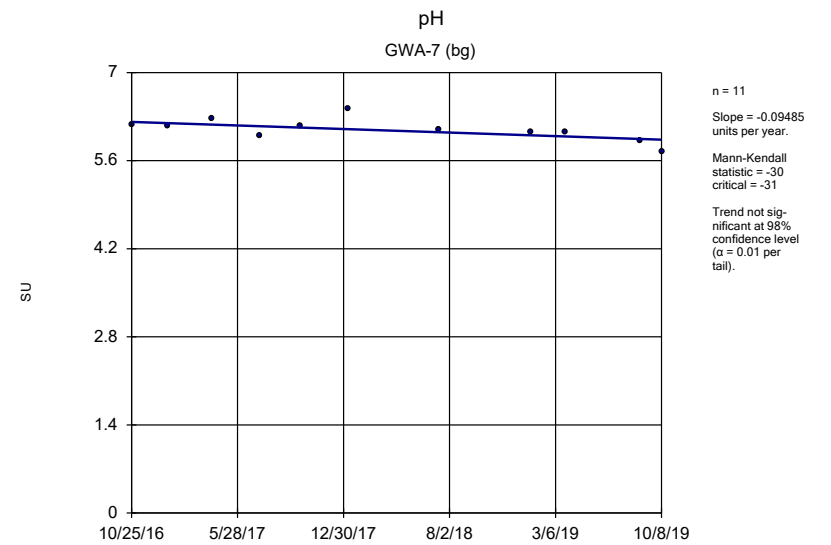
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Grumman Road Landfill Client: Southern Company Data: Grumman Road



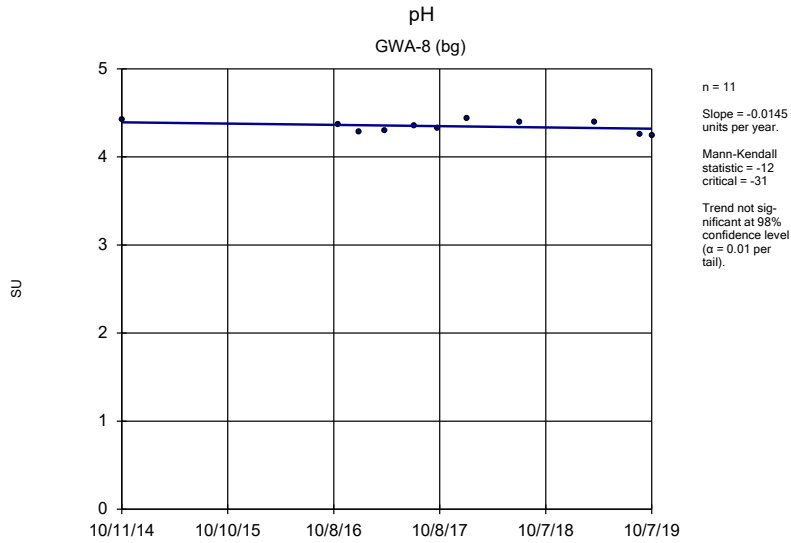
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Grumman Road Landfill Client: Southern Company Data: Grumman Road



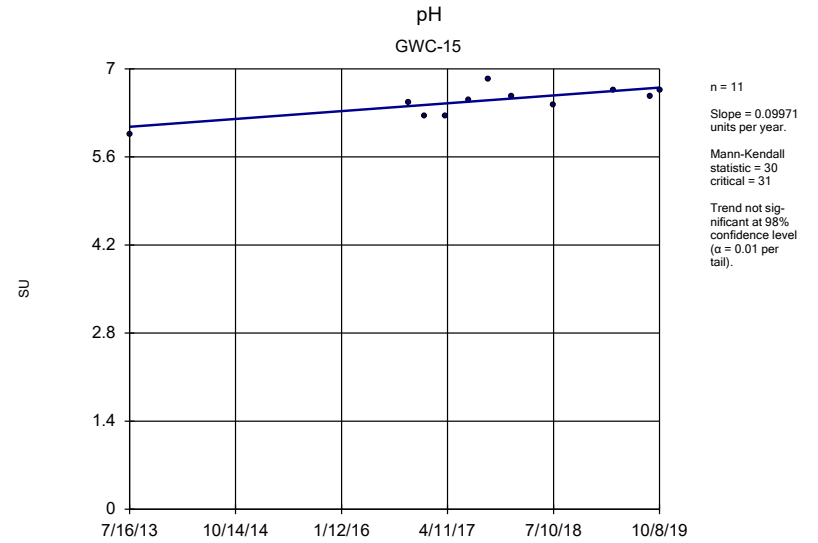
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Grumman Road Landfill Client: Southern Company Data: Grumman Road



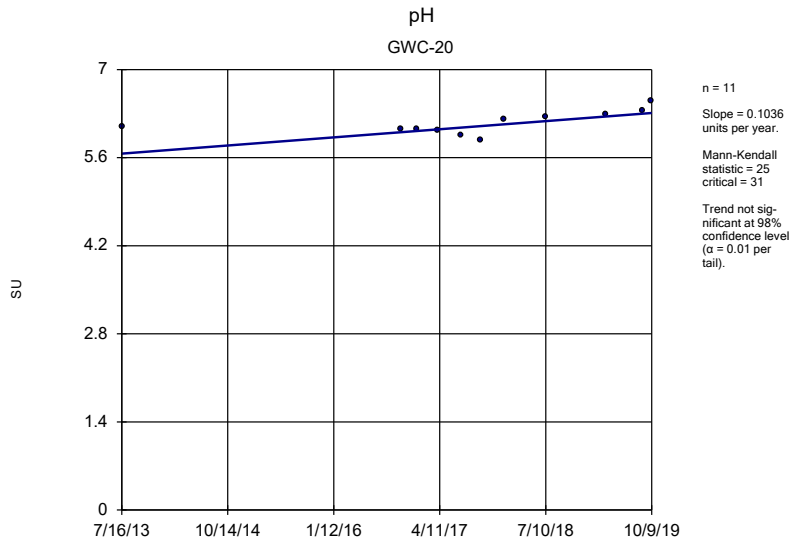
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Grumman Road Landfill Client: Southern Company Data: Grumman Road



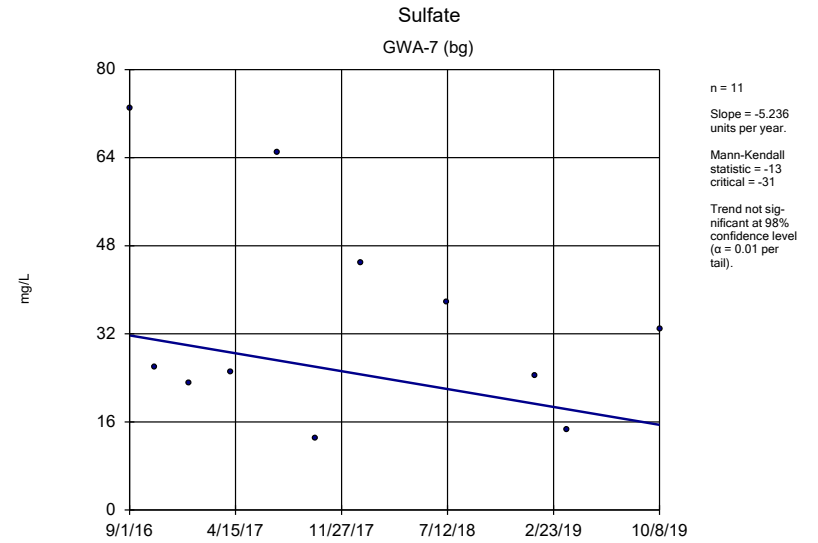
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

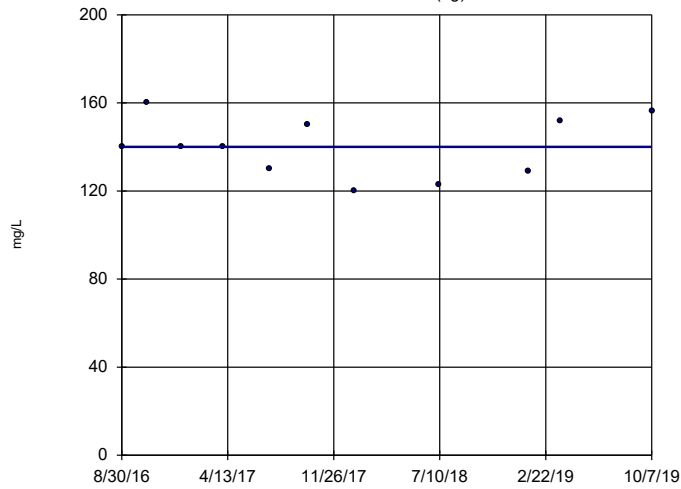


Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

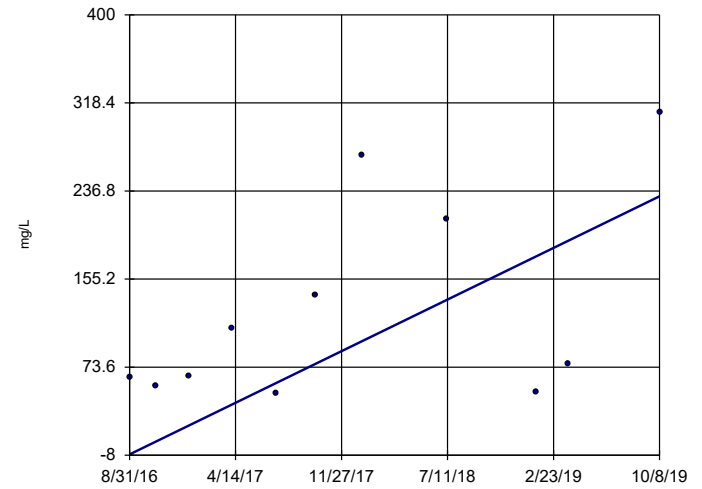
Sulfate GWA-8 (bg)



n = 11
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -31
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

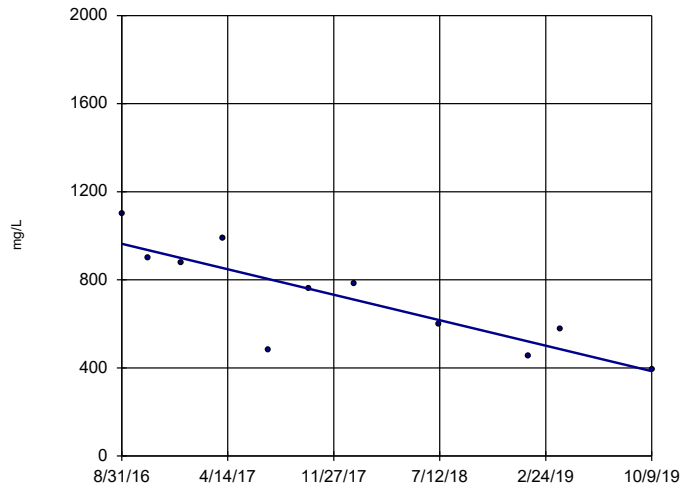
Sulfate GWC-11



n = 11
 Slope = 77.02
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 31
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

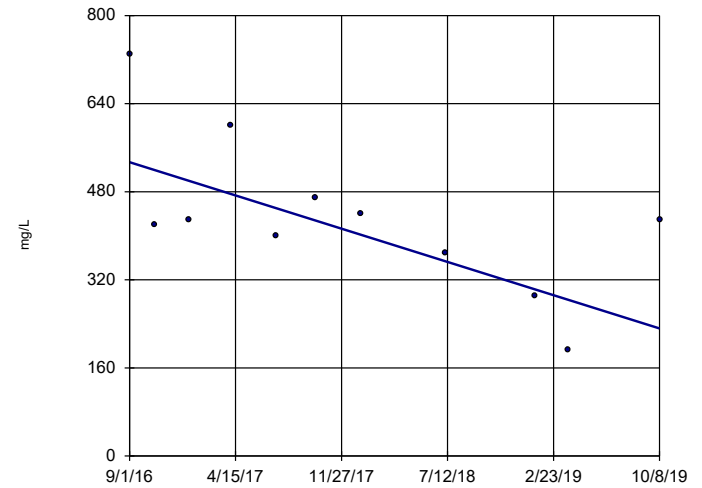
Sulfate GWC-12



n = 11
 Slope = -186.1
 units per year.
 Mann-Kendall
 statistic = -39
 critical = -31
 Decreasing trend
 significant at 98%
 confidence level
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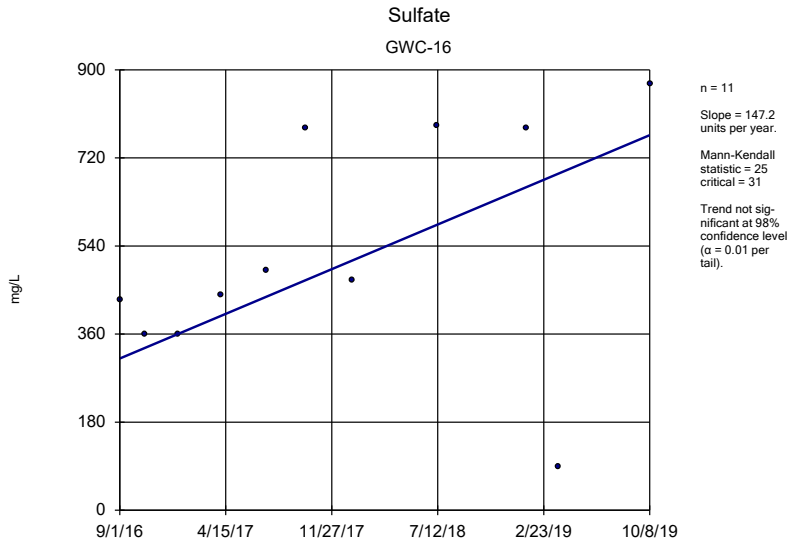
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sulfate GWC-14

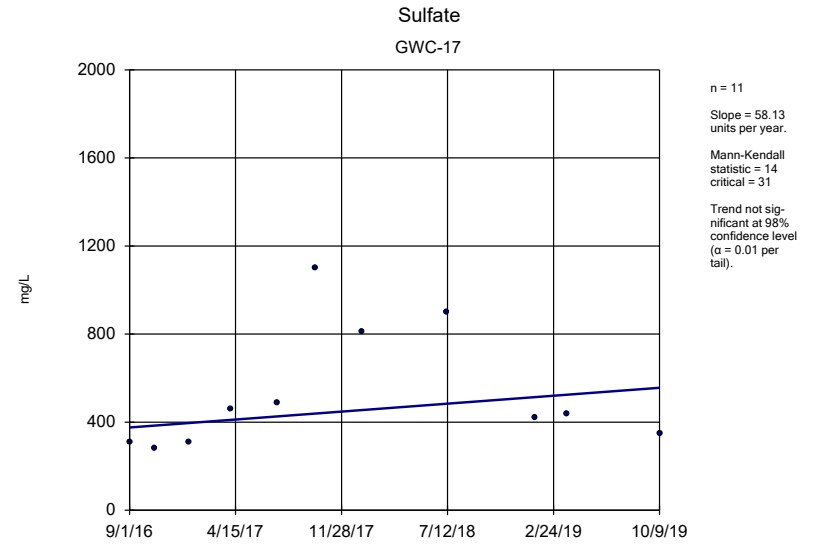


n = 11
 Slope = -97.38
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -31
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

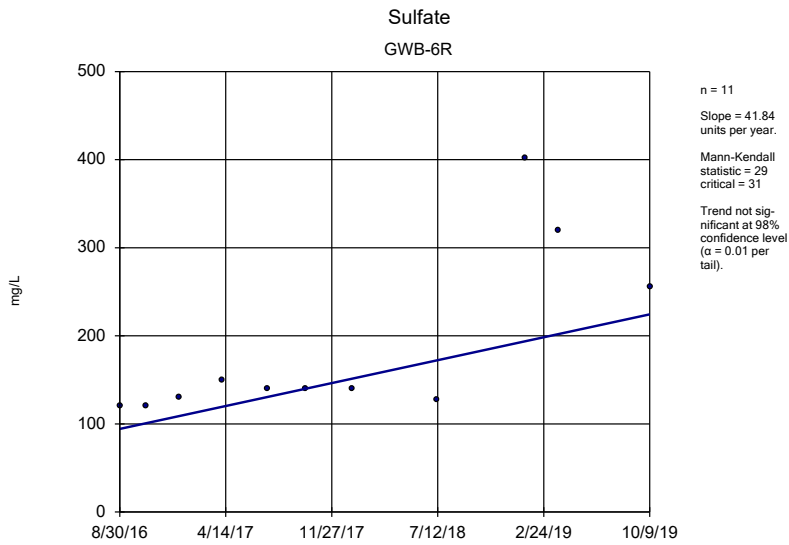
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road



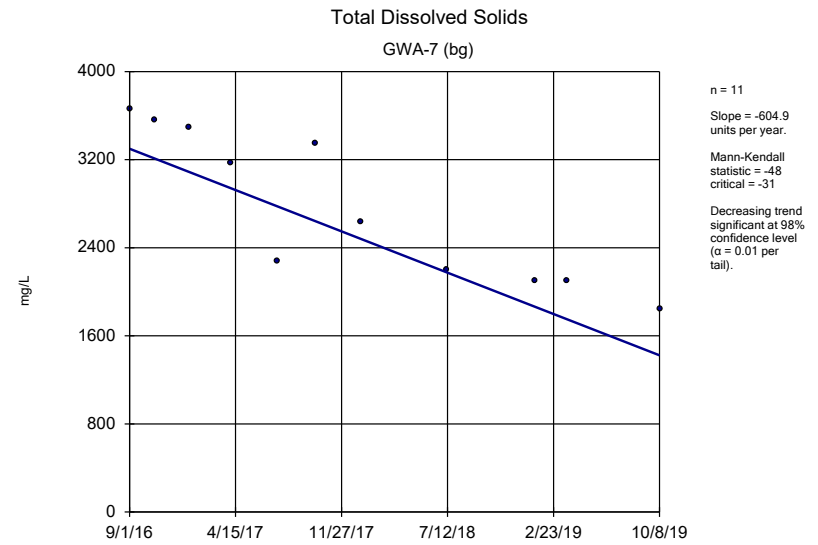
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Grumman Road Landfill Client: Southern Company Data: Grumman Road



Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

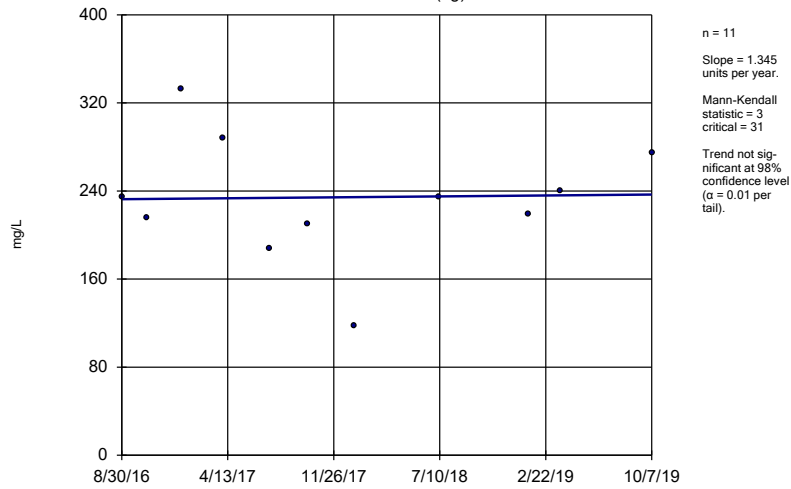


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Grumman Road Landfill Client: Southern Company Data: Grumman Road



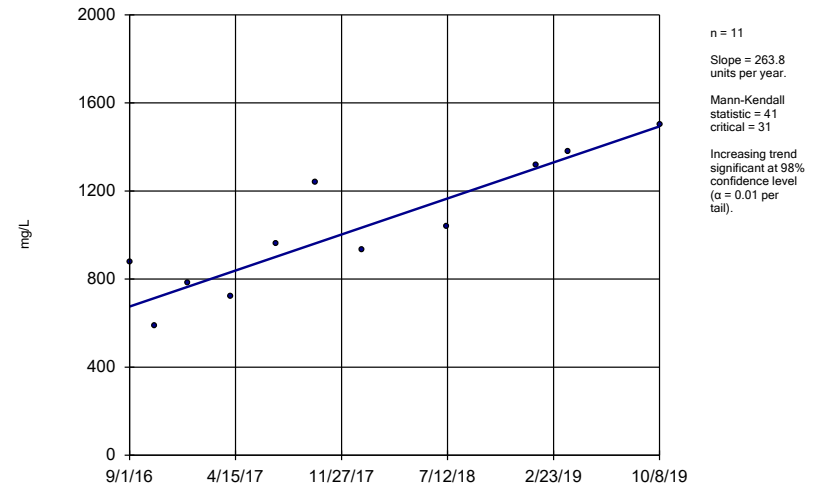
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids GWA-8 (bg)



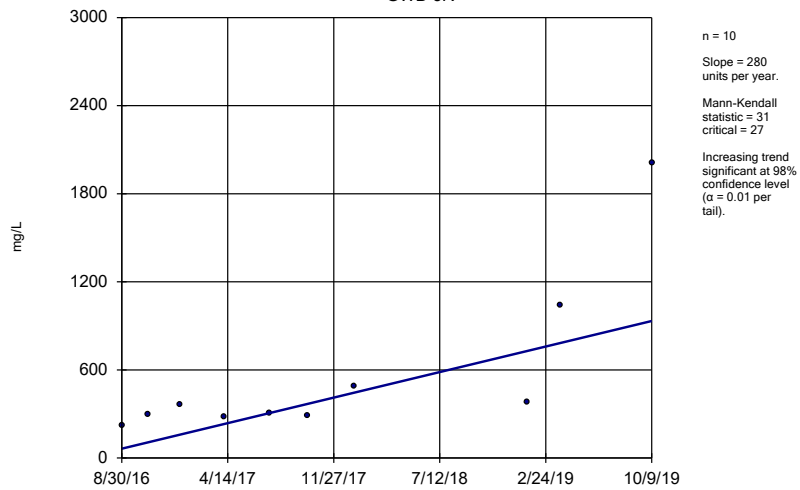
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids GWC-16



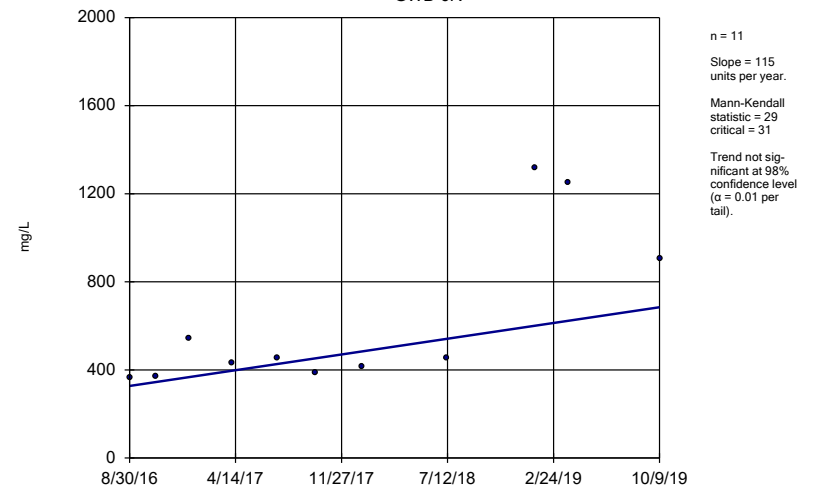
Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids GWB-5R



Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids GWB-6R



Sen's Slope Estimator Analysis Run 2/17/2020 4:14 PM View: Appendix III Trend
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

Constituent: Boron Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-16	GWB-6R
8/30/2016		0.117		1.41
9/1/2016	11.6		1.82	
10/24/2016		0.126		
10/25/2016	21.4		1.26	
10/26/2016				1.83
1/3/2017		0.124		
1/4/2017			1.46	
1/5/2017				3.07
1/6/2017	20.1			
4/3/2017		0.105		
4/5/2017			2	
4/6/2017	21.8			3.19
7/11/2017		0.136		
7/12/2017			2.95	3.06
7/13/2017	16.3			
10/2/2017		0.107		
10/3/2017			4.15	2.69
10/4/2017	21.5			
1/9/2018	13.9	0.123		2.81
1/10/2018			3.68	
7/9/2018		0.11		
7/10/2018			5.2	2.9
7/11/2018	11.7			
1/16/2019	9.3	0.13		7.7
1/17/2019			8.6	
3/25/2019	8.5	0.098		
3/26/2019			7.4	7.4
10/7/2019		0.12		
10/8/2019	6.4		8.4	
10/9/2019				6.3

Sen's Slope Estimator

Constituent: Calcium Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11
8/30/2016		23.8	29.4	
8/31/2016				18.8
9/1/2016	5.59			
10/24/2016		22.5		
10/25/2016	6.43		28.3	
10/26/2016				16.6
1/3/2017		22.1		
1/4/2017			33.4	17.6
1/6/2017	8.13			
4/3/2017		24.6 (J)		
4/4/2017			34.6	
4/6/2017	7.72			30.9
7/11/2017		23.5		17.7
7/12/2017			38	
7/13/2017	4.57			
10/2/2017		22.7		
10/3/2017			25.5	39.8
10/4/2017	6.41			
1/9/2018	4.68	23.2		
1/10/2018			36.5	
1/11/2018				65.6
7/9/2018		24.6 (J)		
7/10/2018			45.5	
7/11/2018	3.9			53
1/16/2019	4.3	27.7	46.5	
1/17/2019				19.8 (J)
3/25/2019	3.9	31.7		
3/26/2019			46.3	
3/27/2019				25.1
10/7/2019		31.6		
10/8/2019	3.5			69.2
10/9/2019			51.2	

Sen's Slope Estimator

Constituent: Calcium Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-14	GWC-15	GWC-16
8/31/2016	105			
9/1/2016		194	119	93.8
10/25/2016		100	106	94.1
10/26/2016	101			
1/4/2017	94.9			88.2
1/5/2017		107	115	
4/3/2017			131	
4/4/2017		153		
4/5/2017	92.5			106
7/10/2017	90.3			
7/11/2017		125	155	
7/12/2017				149
10/2/2017		126	137	
10/3/2017				217
10/4/2017	74.6			
1/9/2018		119	135	
1/10/2018				161
1/11/2018	78.1			
7/9/2018		123		
7/10/2018			129	205
7/11/2018	72.2			
1/16/2019		120		
1/17/2019	64.7		137	187
3/26/2019		84.2	124	204
3/27/2019	63.1			
10/8/2019		146	129	205
10/9/2019	54.2			

Sen's Slope Estimator

Constituent: Calcium Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-20	GWC-21	GWB-4R
9/1/2016	71.9	67.2	40.5	9.91
10/25/2016		50.1	3.91	
10/26/2016	80.3			8.56
1/4/2017		80.4	15.2	
1/5/2017	94.4			
1/6/2017				8.18
4/4/2017		108	32.3	8.12
4/5/2017	104			
7/11/2017		136		
7/12/2017				8
7/13/2017	124		8.92	
10/2/2017		105		
10/3/2017			7.88	
10/4/2017	136			12.5
1/9/2018			40.5	
1/10/2018		60.1		
1/11/2018	139			12.9
7/9/2018		75.9		
7/10/2018			29.8	
7/11/2018	122			8.6
1/16/2019	80.5			68.8
1/17/2019			27.6	
1/21/2019		60		
3/25/2019		74.8		55.6
3/26/2019	68.8		60.1	
10/8/2019			49.5	
10/9/2019	56.6	80.1		46.7

Sen's Slope Estimator

Constituent: Chloride, pH Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-17	GWA-7 (bg)
8/30/2016		15		
9/1/2016	190		610	
10/24/2016		13		
10/25/2016	175 (D)			6.17
10/26/2016			570	
1/3/2017		13		
1/5/2017			710	
1/6/2017	180			6.16
4/3/2017		14		
4/5/2017			860	
4/6/2017	200			6.26
7/11/2017		13		
7/13/2017	200		860	5.99
10/2/2017		15		
10/4/2017	260		1000	6.16
1/9/2018	210	13		6.43
1/11/2018			940	
7/9/2018		15.4		
7/11/2018	177		864	6.1
1/16/2019	165	16	469	6.05
3/25/2019	147	17.7		6.06
3/26/2019			439	
8/26/2019				5.91
10/7/2019		18		
10/8/2019	125			5.74
10/9/2019			330	

Sen's Slope Estimator

Constituent: pH, Sulfate Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWC-15	GWC-20	GWA-7 (bg)
7/16/2013		5.96	6.1	
10/11/2014	4.42			
9/1/2016				73
10/24/2016	4.36			
10/25/2016		6.46	6.06	26
1/3/2017	4.28			
1/4/2017			6.05	
1/5/2017		6.25		
1/6/2017				23
4/3/2017	4.29	6.25		
4/4/2017			6.03	
4/6/2017				25
7/11/2017	4.35	6.5	5.96	
7/13/2017				65
10/2/2017	4.32	6.83	5.88	
10/4/2017				13
1/9/2018	4.44	6.57		45
1/10/2018			6.21	
7/9/2018	4.4		6.24	
7/10/2018		6.42		
7/11/2018				37.7
1/16/2019				24.5
3/25/2019	4.4		6.28	14.7
3/26/2019		6.65		
8/26/2019	4.26			
8/27/2019		6.57		
8/28/2019			6.34	
10/7/2019	4.24			
10/8/2019		6.65		32.8
10/9/2019			6.5	

Sen's Slope Estimator

Constituent: Sulfate Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWC-11	GWC-12	GWC-14
8/30/2016	140			
8/31/2016		64	1100	
9/1/2016				730
10/24/2016	160			
10/25/2016				420
10/26/2016		56	900	
1/3/2017	140			
1/4/2017		65	880	
1/5/2017				430
4/3/2017	140			
4/4/2017				600
4/5/2017			990	
4/6/2017		110		
7/10/2017			480	
7/11/2017	130	49		400
10/2/2017	150			470
10/3/2017		140		
10/4/2017			760	
1/9/2018	120			440
1/11/2018		270	780	
7/9/2018	123			369
7/11/2018		211	598	
1/16/2019	129			291
1/17/2019		50.3	454	
3/25/2019	152			
3/26/2019				192
3/27/2019		76.8	579	
10/7/2019	156			
10/8/2019		310		428
10/9/2019			392	

Sen's Slope Estimator

Constituent: Sulfate, Total Dissolved Solids Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWB-6R	GWA-7 (bg)
8/30/2016			120	
9/1/2016	430	310		3660
10/25/2016	360			3560
10/26/2016		280	120	
1/4/2017	360			
1/5/2017		310	130	
1/6/2017				3490
4/5/2017	440	460		
4/6/2017			150	3170
7/12/2017	490		140	
7/13/2017		490		2280
10/3/2017	780		140	
10/4/2017		1100		3350
1/9/2018			140	2640
1/10/2018	470			
1/11/2018		810		
7/10/2018	787		128	
7/11/2018		902		2200
1/16/2019		422	402	2100
1/17/2019	780			
3/25/2019				2100
3/26/2019	87.9	439	319	
10/8/2019	872			1840
10/9/2019		346	255	

Sen's Slope Estimator

Constituent: Total Dissolved Solids Analysis Run 2/17/2020 4:15 PM View: Appendix III Trend

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWC-16	GWB-5R	GWB-6R
8/30/2016	234		224	365
9/1/2016		878		
10/24/2016	216			
10/25/2016		585		
10/26/2016			297	373
1/3/2017	333		366	
1/4/2017		783		
1/5/2017				543
4/3/2017	288			
4/5/2017		722		
4/6/2017			279	434
7/11/2017	188			
7/12/2017		962	308	454
10/2/2017	210			
10/3/2017		1240	288	389
1/9/2018	118			415
1/10/2018		935	493	
7/9/2018	235			
7/10/2018		1040		453
1/16/2019	219		382	1320
1/17/2019		1320		
3/25/2019	240			
3/26/2019		1380	1040	1250
10/7/2019	275			
10/8/2019		1500		
10/9/2019			2010	903

Appendix I, II, and IV Confidence Intervals (October 2019)

Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 1:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	104	94.23	n/a	0.004822	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0287	n/a	n/a	n/a	104	78.85	n/a	0.004822	NP Inter(NDs)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	101	0	n/a	0.005625	NP Inter(normal...)
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	28	53.57	n/a	0.2378	NP Inter(normal...)
Cadmium (mg/L)	n/a	0.005	n/a	n/a	n/a	27	92.59	n/a	0.2503	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	n/a	n/a	102	70.59	n/a	0.005343	NP Inter(normal...)
Cobalt (mg/L)	n/a	0.0102	n/a	n/a	n/a	28	60.71	n/a	0.2378	NP Inter(normal...)
Combined Radium 226 + 228 (pCi/L)	n/a	13.22	n/a	n/a	n/a	16	0	No	0.05	Inter
Fluoride (mg/L)	n/a	0.5117	n/a	n/a	n/a	16	12.5	No	0.05	Inter
Lead (mg/L)	n/a	0.013	n/a	n/a	n/a	102	80.39	n/a	0.005343	NP Inter(NDs)
Lithium (mg/L)	n/a	0.05	n/a	n/a	n/a	13	92.31	n/a	0.5133	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	16	81.25	n/a	0.4401	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	15	80	n/a	0.4633	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	n/a	n/a	102	84.31	n/a	0.005343	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	47	93.62	n/a	0.08974	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.425	n/a	n/a	n/a	101	66.34	n/a	0.005625	NP Inter(normal...)
Zinc (mg/L)	n/a	0.0853	n/a	n/a	n/a	96	27.08	n/a	0.007269	NP Inter(normal...)

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.003	<0.003
11/21/2000	<0.003	
1/20/2001	<0.003	<0.003
3/14/2001	<0.003	<0.003
7/16/2001	<0.003	<0.003
11/1/2001	<0.003	<0.003
4/25/2002	<0.003	<0.003
11/20/2002		<0.003
6/6/2003	<0.003	<0.003
12/12/2003	<0.003	<0.003
5/26/2004	<0.003	<0.003
12/7/2004	<0.003	<0.003
6/21/2005	<0.003	<0.003
12/12/2005	<0.003	<0.003
4/4/2006		<0.003
6/27/2006	<0.003	<0.003
8/30/2006		<0.003
12/4/2006	<0.003	<0.003
2/15/2007		<0.003
6/23/2007	<0.003	<0.003
9/11/2007		<0.003
12/11/2007	<0.003	<0.003
3/11/2008		<0.003
6/23/2008	<0.003	<0.003
11/3/2008		<0.003
12/4/2008	<0.003	<0.003
3/25/2009		<0.003
7/7/2009	<0.003	<0.003
9/14/2009		<0.003
12/20/2009	<0.003	<0.003
3/4/2010		<0.003
6/20/2010	<0.003	<0.003
9/14/2010		<0.003
1/7/2011	<0.003	<0.003
4/15/2011		<0.003
7/7/2011	<0.003	<0.003
9/25/2011		<0.003
1/17/2012	<0.003	<0.003
4/4/2012		<0.003
7/9/2012	<0.003	
7/10/2012		<0.003
10/9/2012		<0.003
1/18/2013	<0.003	<0.003
4/5/2013		<0.003
7/17/2013	<0.003	<0.003
10/11/2013		<0.003
1/13/2014	<0.003	
1/14/2014		<0.003
4/3/2014		<0.003
7/9/2014	0.0022 (J)	<0.003
10/24/2014		<0.003
1/13/2015	<0.003	

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.003
5/10/2015		<0.003
7/16/2015	0.0028 (J)	
7/17/2015		<0.003
10/6/2015		<0.003
1/18/2016	<0.003	<0.003
4/26/2016		<0.003
7/27/2016	<0.003	
7/28/2016		<0.003
8/30/2016		<0.003
9/1/2016	0.0017 (J)	
10/24/2016		<0.003
10/25/2016	<0.003	
1/3/2017		<0.003
1/6/2017	0.0009 (J)	
4/3/2017		<0.003
4/6/2017	<0.003	
7/11/2017		<0.003
7/13/2017	0.0013 (J)	
10/2/2017		<0.003
10/4/2017	0.0008 (J)	
1/9/2018	<0.003	<0.003
7/9/2018		<0.003

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.005	<0.005
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
11/20/2002		<0.005
6/6/2003	0.02	<0.005
12/12/2003	<0.005	<0.005
5/26/2004	<0.005	<0.005
12/7/2004	<0.005	<0.005
6/21/2005	<0.005	<0.005
12/12/2005	<0.005	<0.005
4/4/2006		<0.005
6/27/2006	<0.005	<0.005
8/30/2006		<0.005
12/4/2006	<0.005	<0.005
2/15/2007		<0.005
6/23/2007	<0.005	<0.005
9/11/2007		<0.005
12/11/2007	<0.005	<0.005
3/11/2008		<0.005
6/23/2008	<0.005	<0.005
11/3/2008		<0.005
12/4/2008	<0.005	<0.005
3/25/2009		<0.005
7/7/2009	<0.005	<0.005
9/14/2009		<0.005
12/20/2009	<0.005	<0.005
3/4/2010		<0.005
6/20/2010	<0.005	<0.005
9/14/2010		<0.005
1/7/2011	<0.005	<0.005
4/15/2011		<0.005
7/7/2011	<0.005	<0.005
9/25/2011		<0.005
1/17/2012	<0.005	<0.005
4/4/2012		<0.005
7/9/2012	0.0052	
7/10/2012		<0.005
10/9/2012		<0.005
1/18/2013	0.0087	<0.005
4/5/2013		<0.005
7/17/2013	0.0084	<0.005
10/11/2013		<0.005
1/13/2014	0.009	
1/14/2014		<0.005
4/3/2014		<0.005
7/9/2014	0.008	<0.005
10/24/2014		<0.005
1/13/2015	0.0077	

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.005
5/10/2015		<0.005
7/16/2015	0.0077	
7/17/2015		<0.005
10/6/2015		<0.005
1/18/2016	0.014	<0.005
4/26/2016		0.0011 (J)
7/27/2016	0.0111	
7/28/2016		<0.005
8/30/2016		<0.005
9/1/2016	0.0287	
10/24/2016		<0.005
10/25/2016	0.0069	
1/3/2017		<0.005
1/6/2017	0.0097	
4/3/2017		0.0006 (J)
4/6/2017	0.0104	
7/11/2017		0.0006 (J)
7/13/2017	0.0064	
10/2/2017		0.0006 (J)
10/4/2017	0.0078	
1/9/2018	0.0091 (J)	0.0009 (J)
7/9/2018		<0.005

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	0.11	
11/21/2000	0.12	
1/20/2001	0.11	
3/14/2001	0.11	0.14
7/16/2001	0.11	0.14
11/1/2001	0.11	0.14
4/25/2002	0.058	0.088
6/6/2003	0.19	0.14
12/12/2003	0.1	0.13
5/26/2004	0.084	0.09
12/7/2004	0.094	0.11
6/21/2005	0.089	0.084
12/12/2005	0.089	0.1
4/4/2006		0.089
6/27/2006	0.096	0.1
8/30/2006		0.12
12/4/2006	0.092	0.086
2/15/2007		0.088
6/23/2007	0.08	0.089
9/11/2007		0.092
12/11/2007	0.067	0.077
3/11/2008		0.082
6/23/2008	0.056	0.086
11/3/2008		0.088
12/4/2008	0.054	0.081
3/25/2009		0.069
7/7/2009	0.034	0.078
9/14/2009		0.079
12/20/2009	0.034	0.081
3/4/2010		0.065
6/20/2010	0.062	0.078
9/14/2010		0.076
1/7/2011	0.039	0.074
4/15/2011		0.065
7/7/2011	0.036	0.081
9/25/2011		0.078
1/17/2012	0.041	0.082
4/4/2012		0.0861
7/9/2012	0.15	
7/10/2012		0.082
10/9/2012		0.09
1/18/2013	0.15	0.083
4/5/2013		0.078
7/17/2013	0.13	0.083
10/11/2013		0.078
1/13/2014	0.16	
1/14/2014		0.081
4/3/2014		0.077
7/9/2014	0.11	0.073
10/24/2014		0.087
1/13/2015	0.083	
1/14/2015		0.079

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
5/10/2015		0.076
7/16/2015	0.094	
7/17/2015		0.061
10/6/2015		0.067
1/18/2016	0.22	0.068
4/26/2016		0.0596
7/27/2016	0.192	
7/28/2016		0.0701
8/30/2016		0.0687
10/24/2016		0.07
10/25/2016	0.173	
1/3/2017		0.061
1/6/2017	0.167	
4/3/2017		0.0612
4/6/2017	0.136	
7/11/2017		0.0624
7/13/2017	0.0891	
10/2/2017		0.0618
10/4/2017	0.113	
1/9/2018	0.0901	0.0574
7/9/2018		0.056
7/11/2018	0.065	

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.003	<0.003
11/21/2000	<0.003	
1/20/2001	<0.003	<0.003
3/14/2001	<0.003	<0.003
7/16/2001	<0.003	<0.003
11/1/2001	<0.003	<0.003
4/25/2002	<0.003	<0.003
8/30/2016		0.0002 (J)
9/1/2016	0.0017 (J)	
10/24/2016		<0.003
10/25/2016	0.0002 (J)	
1/3/2017		0.0002 (J)
1/6/2017	0.0003 (J)	
4/3/2017		0.0002 (J)
4/6/2017	0.0004 (J)	
7/11/2017		0.0002 (J)
7/13/2017	0.001 (J)	
10/2/2017		0.0002 (J)
10/4/2017	0.0002 (J)	
1/9/2018	<0.003	0.0002 (J)
7/9/2018		0.0002 (J)

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
8/30/2016		<0.005
9/1/2016	0.0007 (J)	
10/24/2016		<0.005
10/25/2016	<0.005	
1/3/2017		<0.005
1/6/2017	0.0001 (J)	
4/3/2017		<0.005
4/6/2017	<0.005	
7/11/2017		<0.005
7/13/2017	<0.005	
10/2/2017		<0.005
10/4/2017	<0.005	
1/9/2018	<0.005	<0.005
7/9/2018		<0.005
7/11/2018	<0.005	

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	<0.01
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
6/6/2003	0.037	0.014
12/12/2003	0.0044	0.011
5/26/2004	<0.01	<0.01
12/7/2004	<0.01	<0.01
6/21/2005	<0.01	<0.01
12/12/2005	<0.01	<0.01
4/4/2006		<0.01
6/27/2006	<0.01	<0.01
8/30/2006		<0.01
12/4/2006	0.0015	<0.01
2/15/2007		<0.01
6/23/2007	<0.01	<0.01
9/11/2007		<0.01
12/11/2007	0.0016	<0.01
3/11/2008		<0.01
6/23/2008	0.0019	<0.01
11/3/2008		<0.01
12/4/2008	<0.01	<0.01
3/25/2009		<0.01
7/7/2009	0.0037	<0.01
9/14/2009		<0.01
12/20/2009	0.0016	<0.01
3/4/2010		<0.01
6/20/2010	<0.01	<0.01
9/14/2010		<0.01
1/7/2011	0.0033	<0.01
4/15/2011		<0.01
7/7/2011	0.0044	<0.01
1/17/2012	0.0038	<0.01
4/4/2012		<0.01
7/9/2012	0.022	
7/10/2012		<0.01
10/9/2012		<0.01
1/18/2013	0.034	<0.01
4/5/2013		<0.01
7/17/2013	0.032	<0.01
10/11/2013		<0.01
1/13/2014	0.04	
1/14/2014		<0.01
4/3/2014		<0.01
7/9/2014	0.036	<0.01
10/24/2014		<0.01
1/13/2015	0.03	
1/14/2015		<0.01
5/10/2015		<0.01

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
7/16/2015	0.039	
7/17/2015		<0.01
10/6/2015		<0.01
1/18/2016	0.068	<0.01
4/26/2016		<0.01
7/27/2016	0.05	
7/28/2016		<0.01
8/30/2016		<0.01
10/24/2016		<0.01
10/25/2016	0.0519	
1/3/2017		<0.01
1/6/2017	0.0536	
4/3/2017		0.0004 (J)
4/6/2017	0.0447 (J)	
7/11/2017		0.0006 (J)
7/13/2017	0.0269	
10/2/2017		<0.01
10/4/2017	0.0378	
1/9/2018	0.0283 (J)	<0.01
7/9/2018		<0.01
7/11/2018	0.018 (J)	

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	<0.01
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
8/30/2016		<0.01
9/1/2016	0.0102	
10/24/2016		<0.01
10/25/2016	0.0037 (J)	
1/3/2017		<0.01
1/6/2017	0.0039 (J)	
4/3/2017		0.0005 (J)
4/6/2017	0.006 (J)	
7/11/2017		0.0005 (J)
7/13/2017	0.0037 (J)	
10/2/2017		0.0004 (J)
10/4/2017	0.0058 (J)	
1/9/2018	0.0053 (J)	0.0004 (J)
7/9/2018		<0.01

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	2.72	
9/1/2016		11
10/24/2016	2.96	
10/25/2016		10.5
1/3/2017	2.76	
1/6/2017		6.81
4/3/2017	1.36	
4/6/2017		8.93
7/11/2017	1.85	
7/13/2017		8.51
10/2/2017	1.9	
10/4/2017		3.85
1/9/2018	2.39	4.28
7/9/2018	1.49	
7/11/2018		5.99

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	0.1 (J)	
9/1/2016		<0.3
10/24/2016	0.18 (J)	
10/25/2016		0.07 (J)
1/3/2017	0.18 (J)	
1/6/2017		0.2 (J)
4/3/2017	0.12 (J)	
4/6/2017		0.05 (J)
7/11/2017	0.39	
7/13/2017		0.41
10/2/2017	0.12 (J)	
10/4/2017		0.04 (J)
1/9/2018	0.21 (J)	0.46
7/9/2018	0.04 (J)	
7/11/2018		<0.3

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.005	<0.005
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
11/20/2002		<0.005
12/12/2003	0.008	0.0095
5/26/2004	<0.005	<0.005
12/7/2004	<0.005	<0.005
6/21/2005	<0.005	<0.005
12/12/2005	<0.005	<0.005
4/4/2006		<0.005
6/27/2006	<0.005	<0.005
8/30/2006		<0.005
12/4/2006	<0.005	<0.005
2/15/2007		<0.005
6/23/2007	<0.005	<0.005
9/11/2007		<0.005
12/11/2007	<0.005	<0.005
3/11/2008		<0.005
6/23/2008	<0.005	<0.005
11/3/2008		<0.005
12/4/2008	<0.005	<0.005
3/25/2009		<0.005
7/7/2009	<0.005	<0.005
9/14/2009		<0.005
12/20/2009	<0.005	<0.005
3/4/2010		<0.005
6/20/2010	<0.005	<0.005
9/14/2010		<0.005
1/7/2011	<0.005	<0.005
4/15/2011		<0.005
7/7/2011	<0.005	<0.005
9/25/2011		<0.005
1/17/2012	<0.005	<0.005
4/4/2012		<0.005
7/9/2012	<0.005	
7/10/2012		<0.005
10/9/2012		<0.005
1/18/2013	<0.005	<0.005
4/5/2013		<0.005
7/17/2013	<0.005	<0.005
10/11/2013		<0.005
1/13/2014	0.013	
1/14/2014		<0.005
4/3/2014		<0.005
7/9/2014	0.0076 (J)	<0.005
10/24/2014		<0.005
1/13/2015	0.0057 (J)	
1/14/2015		<0.005

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
5/10/2015		<0.005
7/16/2015	0.009 (J)	
7/17/2015		<0.005
10/6/2015		<0.005
1/18/2016	0.0094 (J)	<0.005
4/26/2016		<0.005
7/27/2016	0.0058	
7/28/2016		<0.005
8/30/2016		<0.005
10/24/2016		<0.005
10/25/2016	0.0003 (J)	
1/3/2017		0.0001 (J)
1/6/2017	0.006	
4/3/2017		0.0002 (J)
4/6/2017	0.0109	
7/11/2017		0.0001 (J)
7/13/2017	0.007	
10/2/2017		0.0001 (J)
10/4/2017	0.0042 (J)	
1/9/2018	0.0098	0.0001 (J)
7/9/2018		<0.005
7/11/2018	0.0028 (J)	

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.05	
9/1/2016		<0.05
10/24/2016	<0.05	
10/25/2016		<0.05
1/3/2017	<0.05	
1/6/2017		<0.05
4/3/2017	<0.05	
7/11/2017	<0.05	
7/13/2017		<0.05
10/2/2017	<0.05	
10/4/2017		<0.05
1/9/2018	<0.05	
7/9/2018	0.001 (J)	

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.0005	
9/1/2016		0.00017 (J)
10/24/2016	<0.0005	
10/25/2016		<0.0005
1/3/2017	<0.0005	
1/6/2017		<0.0005
4/3/2017	<0.0005	
4/6/2017		4E-05 (J)
7/11/2017	<0.0005	
7/13/2017		<0.0005
10/2/2017	<0.0005	
10/4/2017		0.0001 (J)
1/9/2018	<0.0005	<0.0005
7/9/2018	<0.0005	
7/11/2018		<0.0005

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.01	
9/1/2016		0.0098 (J)
10/24/2016	<0.01	
10/25/2016		<0.01
1/3/2017	<0.01	
1/6/2017		<0.01
4/3/2017	<0.01	
4/6/2017		<0.01
7/11/2017	<0.01	
7/13/2017		0.0013 (J)
10/2/2017	<0.01	
10/4/2017		0.0013 (J)
1/9/2018	<0.01	<0.01
7/9/2018	<0.01	

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	<0.01
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
11/20/2002		<0.01
6/6/2003	<0.01	<0.01
12/12/2003	<0.01	<0.01
5/26/2004	<0.01	<0.01
12/7/2004	<0.01	<0.01
6/21/2005	<0.01	<0.01
12/12/2005	<0.01	<0.01
4/4/2006		<0.01
6/27/2006	<0.01	<0.01
8/30/2006		<0.01
12/4/2006	<0.01	<0.01
2/15/2007		<0.01
6/23/2007	<0.01	<0.01
9/11/2007		<0.01
12/11/2007	<0.01	<0.01
3/11/2008		<0.01
6/23/2008	<0.01	<0.01
11/3/2008		<0.01
12/4/2008	<0.01	<0.01
3/25/2009		<0.01
7/7/2009	<0.01	<0.01
9/14/2009		<0.01
12/20/2009	<0.01	<0.01
3/4/2010		<0.01
6/20/2010	<0.01	<0.01
9/14/2010		<0.01
1/7/2011	<0.01	<0.01
4/15/2011		<0.01
7/7/2011	<0.01	<0.01
9/25/2011		<0.01
1/17/2012	<0.01	<0.01
7/9/2012	<0.01	
7/10/2012		<0.01
10/9/2012		<0.01
1/18/2013	0.009	<0.01
4/5/2013		<0.01
7/17/2013	0.011	<0.01
10/11/2013		<0.01
1/13/2014	0.012	
1/14/2014		<0.01
4/3/2014		<0.01
7/9/2014	0.011	<0.01
10/24/2014		<0.01
1/13/2015	0.0092	
1/14/2015		<0.01

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
5/10/2015		<0.01
7/16/2015	0.014	
7/17/2015		<0.01
10/6/2015		<0.01
1/18/2016	0.023	<0.01
4/26/2016		<0.01
7/27/2016	0.0323	
7/28/2016		0.001 (J)
8/30/2016		<0.01
9/1/2016	0.0438	
10/24/2016		0.0013 (J)
10/25/2016	0.031	
1/3/2017		<0.01
1/6/2017	0.0324	
4/3/2017		<0.01
4/6/2017	0.0188 (J)	
7/11/2017		<0.01
7/13/2017	0.0118	
10/2/2017		<0.01
10/4/2017	0.0195	
1/9/2018		<0.01
7/9/2018		<0.01

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.001	<0.001
11/21/2000	<0.001	
1/20/2001	<0.001	<0.001
3/14/2001	<0.001	<0.001
7/16/2001	<0.001	<0.001
11/1/2001	<0.001	<0.001
4/25/2002	<0.001	<0.001
12/12/2003	<0.001	<0.001
5/26/2004	<0.001	<0.001
12/7/2004	<0.001	<0.001
6/21/2005	<0.001	<0.001
12/12/2005	<0.001	<0.001
4/4/2006		<0.001
6/27/2006	<0.001	<0.001
8/30/2006		<0.001
12/4/2006	<0.001	<0.001
2/15/2007		<0.001
6/23/2007	<0.001	<0.001
8/30/2016		<0.001
9/1/2016	0.0005 (J)	
10/24/2016		<0.001
10/25/2016	<0.001	
1/3/2017		<0.001
1/6/2017	<0.001	
4/3/2017		<0.001
4/6/2017	<0.001	
7/11/2017		5E-05 (J)
7/13/2017	<0.001	
10/2/2017		6E-05 (J)
10/4/2017	<0.001	
1/9/2018	<0.001	<0.001
7/9/2018		<0.001

Tolerance Limit

Constituent: Vanadium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	<0.01
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
11/20/2002		<0.01
6/6/2003	0.047	
12/12/2003	0.0086	
5/26/2004	<0.01	<0.01
12/7/2004	<0.01	<0.01
6/21/2005	<0.01	<0.01
12/12/2005	<0.01	<0.01
4/4/2006		<0.01
6/27/2006	<0.01	<0.01
8/30/2006		<0.01
12/4/2006	0.0027	<0.01
2/15/2007		<0.01
6/23/2007	0.0027	<0.01
9/11/2007		<0.01
12/11/2007	0.0033	<0.01
3/11/2008		<0.01
6/23/2008	0.0074	<0.01
11/3/2008		<0.01
12/4/2008	0.0084	<0.01
3/25/2009		<0.01
7/7/2009	0.023	<0.01
9/14/2009		<0.01
12/20/2009	0.007	<0.01
3/4/2010		<0.01
6/20/2010	0.0047	<0.01
9/14/2010		<0.01
1/7/2011	0.018	<0.01
4/15/2011		<0.01
7/7/2011	0.019	<0.01
9/25/2011		<0.01
1/17/2012	0.0298	<0.01
4/4/2012		<0.01
7/9/2012	0.14	
7/10/2012		<0.01
10/9/2012		<0.01
1/18/2013	0.21	<0.01
4/5/2013		<0.01
7/17/2013	0.18	<0.01
10/11/2013		<0.01
1/13/2014	0.24	
1/14/2014		<0.01
4/3/2014		0.0015 (J)
7/9/2014	0.22	0.0012 (J)
10/24/2014		<0.01
1/13/2015	0.19	

Tolerance Limit

Constituent: Vanadium (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.01
5/10/2015		<0.01
7/16/2015	0.23	
7/17/2015		<0.01
10/6/2015		0.0012 (J)
1/18/2016	0.41	0.00079 (J)
4/26/2016		<0.01
7/27/2016	0.397	
7/28/2016		<0.01
10/24/2016		<0.01
10/25/2016	0.425	
1/3/2017		<0.01
1/6/2017	0.41	
4/3/2017		<0.01
4/6/2017	0.297	
7/11/2017		<0.01
7/13/2017	0.194	
10/2/2017		<0.01
10/4/2017	0.316	
1/9/2018	0.194	0.0014 (J)
7/9/2018		<0.01
7/11/2018	0.15	

Tolerance Limit

Constituent: Zinc (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
5/26/2004	0.013	<0.01
12/7/2004	<0.01	<0.01
6/21/2005	<0.01	<0.01
12/12/2005	0.014	0.01
4/4/2006		<0.01
6/27/2006	0.01	0.0043
12/4/2006	0.0065	0.0053
2/15/2007		0.0045
6/23/2007	0.0049	0.0043
9/11/2007		0.004
12/11/2007	0.0043	0.0048
3/11/2008		0.0043
6/23/2008	0.0025	0.0037
11/3/2008		0.0032
12/4/2008	0.0025	0.0029
3/25/2009		0.0055
7/7/2009	<0.01	0.0028
9/14/2009		0.0027
12/20/2009	0.0031	0.0029
3/4/2010		0.0042
6/20/2010	<0.01	0.0027
9/14/2010		<0.01
1/7/2011	<0.01	0.0032
4/15/2011		<0.01
7/7/2011	0.0031	0.005
9/25/2011		0.0041
1/17/2012	0.004	0.0043
4/4/2012		<0.01
7/9/2012	0.0096	
7/10/2012		0.0028
10/9/2012		0.0033
1/18/2013	0.051	0.0038
4/5/2013		0.0026
7/17/2013	0.042	<0.01
10/11/2013		0.0046
1/13/2014	0.0025	
1/14/2014		0.0025
4/3/2014		0.0029
7/9/2014	0.064	0.002 (J)
10/24/2014		0.0031
1/13/2015	0.066	
1/14/2015		0.003
5/10/2015		0.0028
7/16/2015	0.036	
7/17/2015		0.0018 (J)

Tolerance Limit

Constituent: Zinc (mg/L) Analysis Run 3/19/2020 1:59 PM View: Upper Tolerance Limit
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)
10/6/2015		0.0018 (J)
1/18/2016	0.035	0.0028
4/26/2016		<0.01
7/27/2016	0.0529	
7/28/2016		0.0018 (J)
10/24/2016		0.0024 (J)
10/25/2016	0.0035 (J)	
1/3/2017		0.0035 (J)
1/6/2017	0.0235	
4/3/2017		0.0041 (J)
4/6/2017	0.0829	
7/11/2017		0.0029 (J)
7/13/2017	0.0853	
10/2/2017		0.0026 (J)
10/4/2017	0.0263	
1/9/2018	0.0665	0.0035 (J)
7/9/2018		0.0022 (J)
7/11/2018	0.02 (J)	

Confidence Interval Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/27/2020, 6:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWC-15	0.1181	0.05908	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08515	0.0587	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3917	0.277	0.0287	Yes	12	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-1	0.1959	0.0935	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1154	0.09148	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1941	0.09626	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.2759	0.0987	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.07306	0.0147	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes	10	0	No	0.011	NP (normality)

Confidence Interval All Results

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00046	0.006	No	12	58.33	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00045	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	9	100	No	0.002	NP (NDs)
Arsenic (mg/L)	GWC-1	0.003136	0.00173	0.0287	No	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0008	0.0287	No	12	75	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002896	0.001769	0.0287	No	12	8.333	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.1181	0.05908	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08515	0.0587	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.00082	0.0287	No	12	33.33	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.0006	0.0287	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3917	0.277	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005305	0.002777	0.0287	No	12	33.33	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	12	41.67	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.005	0.0287	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003151	0.001474	0.0287	No	12	8.333	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.0053	0.0009	0.0287	No	12	25	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	GWB-6R	0.004022	0.001096	0.0287	No	11	18.18	No	0.01	Param.
Barium (mg/L)	GWC-1	0.05777	0.05076	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-11	0.118	0.05167	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-12	0.01857	0.01624	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-13	0.02425	0.0185	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0245	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.04982	0.04008	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-16	0.118	0.04738	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GWC-17	0.1222	0.037	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.05451	0.04865	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GWC-20	0.1169	0.07591	2	No	12	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.07596	0.04659	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-22	0.1088	0.06162	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2903	0.203	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09795	0.07548	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1793	0.0849	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	12	0	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)

Confidence Interval All Results

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GWC-12	0.0009541	0.0005339	0.004	No	10	0	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	10	70	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	10	30	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-17	0.003346	0.001654	0.004	No	10	0	No	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.0003	0.004	No	11	81.82	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	10	40	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	10	0	No	0.011	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	10	40	No	0.011	NP (normality)
Beryllium (mg/L)	GWB-5R	0.0002798	0.0001104	0.004	No	9	0	No	0.01	Param.
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	9	100	No	0.002	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	10	80	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007567	0.0001406	0.005	No	10	10	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	10	40	No	0.011	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	10	30	No	0.011	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	10	60	No	0.011	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	9	100	No	0.002	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	9	100	No	0.002	NP (NDs)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	12	0	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	12	16.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	12	50	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.0006	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0006	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	12	50	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.0009	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01097	0.004078	0.1	No	12	0	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	12	25	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWB-6R	0.017	0.0014	0.1	No	12	0	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	10	90	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001506	0.0009741	0.0102	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	10	90	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-17	0.00718	0.00374	0.0102	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	11	63.64	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	10	50	No	0.011	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	10	10	No	0.011	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.002	0.0102	No	10	60	No	0.011	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.00038	0.0102	No	9	88.89	No	0.002	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.51	1.546	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	5.92	1.761	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.306	1.956	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.412	0.6307	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.337	0.7614	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.808	0.8966	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.064	1.607	13.22	No	10	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.574	2.696	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	0.9782	0.5158	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	2.946	1.342	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.867	0.9642	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.157	3.977	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.601	2.267	13.22	No	10	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	4.885	2.573	13.22	No	10	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.74	1.85	13.22	No	10	0	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.168	1.814	13.22	No	10	0	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	12	100	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9708	0.3519	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	12	75	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-14	0.3778	0.2355	4	No	12	50	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	12	41.67	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.566	0.7154	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.06	4	No	12	41.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	12	91.67	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	12	50	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3979	0.1129	4	No	12	0	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	12	50	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	12	25	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	GWC-1	0.005	0.0001	0.013	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.0003	0.0002	0.013	No	11	0	No	0.006	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000066	0.013	No	12	41.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00013	0.013	No	12	25	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	GWC-14	0.005	0.0001	0.013	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.013	No	12	50	No	0.01	NP (normality)

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Lead (mg/L)	GWC-16	0.005	0.0001	0.013	No	12	33.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.013	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.00008	0.013	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.00007	0.013	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.013	No	12	50	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001014	0.000289	0.013	No	12	0	ln(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.00009	0.013	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.007232	0.002716	0.013	No	11	18.18	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0001	0.013	No	12	33.33	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.013	No	11	36.36	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00098	0.03	No	10	60	No	0.011	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-17	0.007473	0.005267	0.03	No	10	0	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.03	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-9	0.002199	0.001801	0.03	No	9	0	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.03	No	10	0	No	0.011	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0024	0.03	No	9	22.22	No	0.002	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.03	No	9	100	No	0.002	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1959	0.0935	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.01	No	10	90	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.01	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.01	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.034	0.0022	0.01	No	9	0	No	0.002	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1154	0.09148	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1941	0.09626	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.004	0.01	No	10	80	No	0.011	NP (NDs)

Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/27/2020, 6:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.01	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2759	0.0987	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.07306	0.0147	0.01	Yes	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.01	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.01	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes	10	0	No	0.011	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.0012	0.01	No	9	88.89	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.0026	0.01	No	9	88.89	No	0.002	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	12	8.333	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.002	0.05	No	12	83.33	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004602	0.002265	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	12	50	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.005977	0.003056	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	12	50	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	12	66.67	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.02242	0.01275	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0014	0.05	No	12	75	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0033	0.05	No	12	75	No	0.01	NP (normality)
Selenium (mg/L)	GWB-6R	0.01	0.0016	0.05	No	10	60	No	0.011	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	10	60	No	0.011	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00014	0.002	No	10	30	No	0.011	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000076	0.002	No	10	50	No	0.011	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000086	0.002	No	10	70	No	0.011	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	9	100	No	0.002	NP (NDs)
Vanadium (mg/L)	GWC-1	0.01	0.0043	0.425	No	8	25	No	0.004	NP (Cohens/xfrm)
Vanadium (mg/L)	GWC-11	0.01	0.0019	0.425	No	8	25	No	0.004	NP (normality)
Vanadium (mg/L)	GWC-12	0.01014	0.002206	0.425	No	8	25	No	0.01	Param.
Vanadium (mg/L)	GWC-13	0.01	0.0016	0.425	No	8	50	No	0.004	NP (normality)
Vanadium (mg/L)	GWC-14	0.01883	0.007389	0.425	No	10	10	No	0.01	Param.
Vanadium (mg/L)	GWC-15	0.01	0.0021	0.425	No	10	40	No	0.011	NP (normality)
Vanadium (mg/L)	GWC-16	0.01	0.0025	0.425	No	10	30	No	0.011	NP (normality)
Vanadium (mg/L)	GWC-17	0.01	0.0024	0.425	No	8	37.5	No	0.004	NP (normality)
Vanadium (mg/L)	GWC-2	0.01	0.0024	0.425	No	8	87.5	No	0.004	NP (NDs)
Vanadium (mg/L)	GWC-20	0.01	0.0024	0.425	No	10	40	No	0.011	NP (normality)

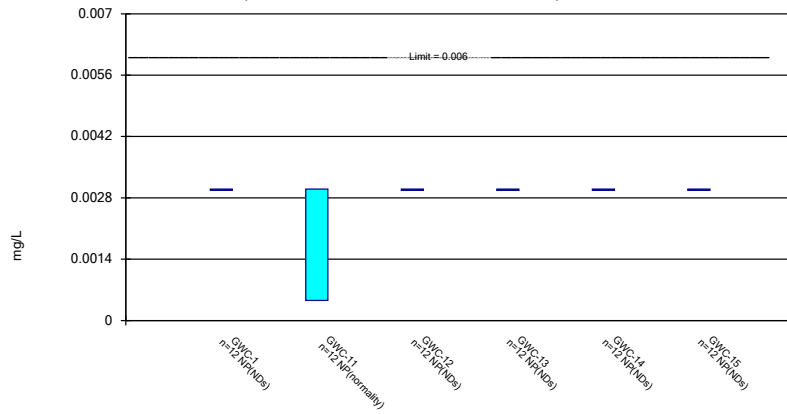
Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/27/2020, 6:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Vanadium (mg/L)	GWC-21	0.01	0.0019	0.425	No	8	25	No	0.004	NP (Cohens/xfrm)
Vanadium (mg/L)	GWC-22	0.01	0.0012	0.425	No	8	50	No	0.004	NP (normality)
Vanadium (mg/L)	GWC-9	0.01	0.0013	0.425	No	8	87.5	No	0.004	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.03888	0.006122	0.425	No	8	12.5	No	0.01	Param.
Vanadium (mg/L)	GWB-5R	0.01911	0.003636	0.425	No	8	12.5	x^(1/3)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.086	0.0069	0.425	No	8	0	No	0.004	NP (normality)
Zinc (mg/L)	GWC-1	0.01	0.0014	0.0853	No	8	62.5	No	0.004	NP (normality)
Zinc (mg/L)	GWC-11	0.01	0.0018	0.0853	No	8	62.5	No	0.004	NP (normality)
Zinc (mg/L)	GWC-12	0.004236	0.002327	0.0853	No	8	0	ln(x)	0.01	Param.
Zinc (mg/L)	GWC-13	0.053	0.0021	0.0853	No	8	0	No	0.004	NP (normality)
Zinc (mg/L)	GWC-14	0.01	0.0026	0.0853	No	10	70	No	0.011	NP (normality)
Zinc (mg/L)	GWC-15	0.01	0.01	0.0853	No	10	90	No	0.011	NP (NDs)
Zinc (mg/L)	GWC-16	0.01	0.002	0.0853	No	10	40	No	0.011	NP (normality)
Zinc (mg/L)	GWC-17	0.0158	0.007996	0.0853	No	8	0	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.01	0.0014	0.0853	No	8	50	No	0.004	NP (normality)
Zinc (mg/L)	GWC-20	0.01	0.0049	0.0853	No	10	80	No	0.011	NP (NDs)
Zinc (mg/L)	GWC-21	0.01	0.0015	0.0853	No	8	50	No	0.004	NP (normality)
Zinc (mg/L)	GWC-22	0.00947	0.00268	0.0853	No	8	12.5	No	0.01	Param.
Zinc (mg/L)	GWC-9	0.004797	0.002378	0.0853	No	8	0	No	0.01	Param.
Zinc (mg/L)	GWB-4R	0.01112	0.00386	0.0853	No	8	0	No	0.01	Param.
Zinc (mg/L)	GWB-5R	0.01	0.0022	0.0853	No	8	62.5	No	0.004	NP (normality)
Zinc (mg/L)	GWB-6R	0.01583	-0.001041	0.0853	No	6	16.67	No	0.01	Param.

Non-Parametric Confidence Interval

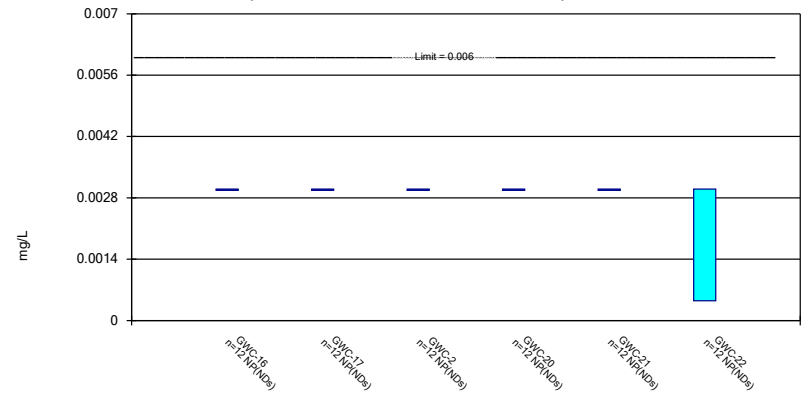
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Constituent: Antimony Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

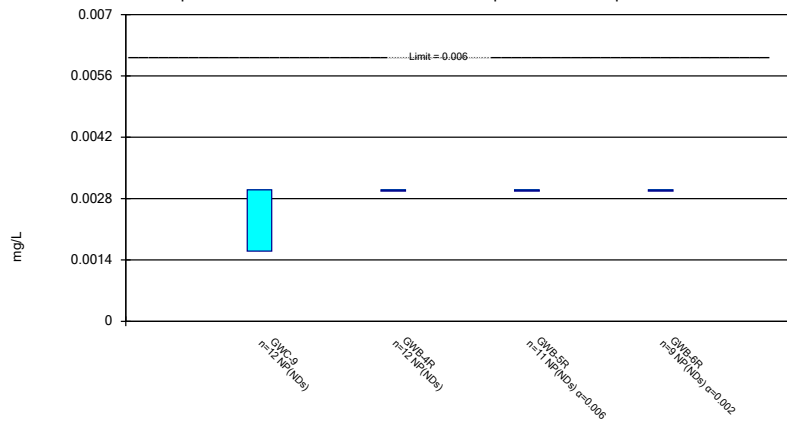
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Constituent: Antimony Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

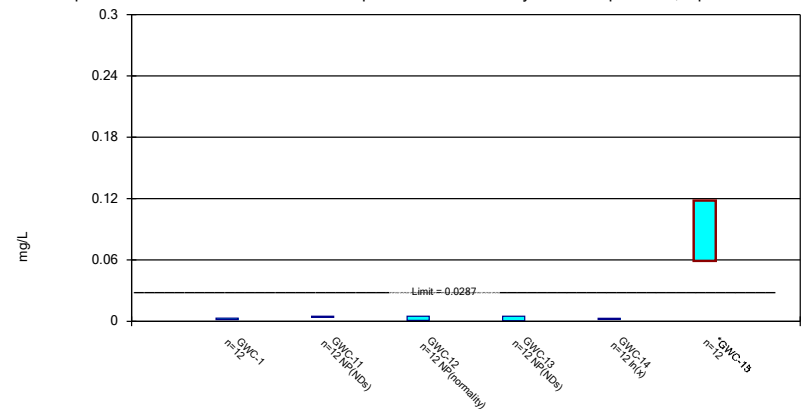
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Constituent: Antimony Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

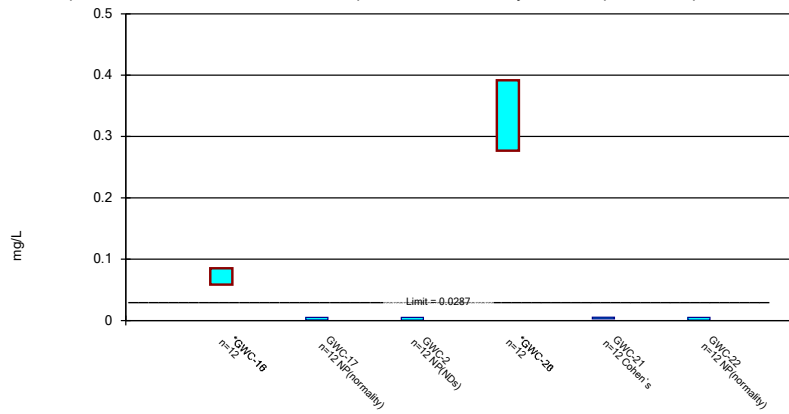
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Constituent: Arsenic Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

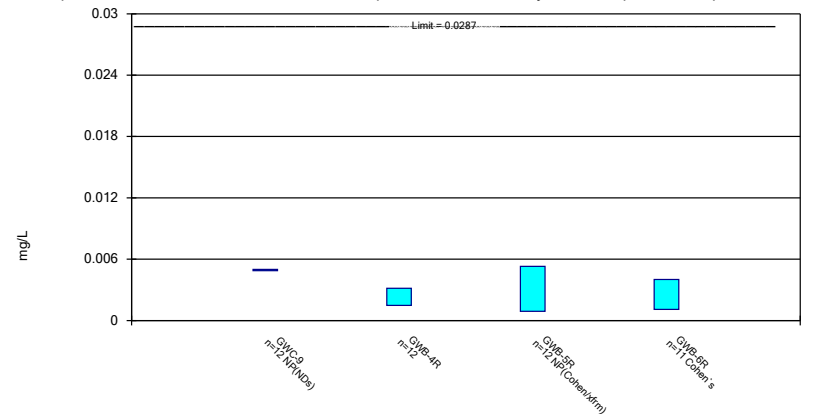
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Constituent: Arsenic Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

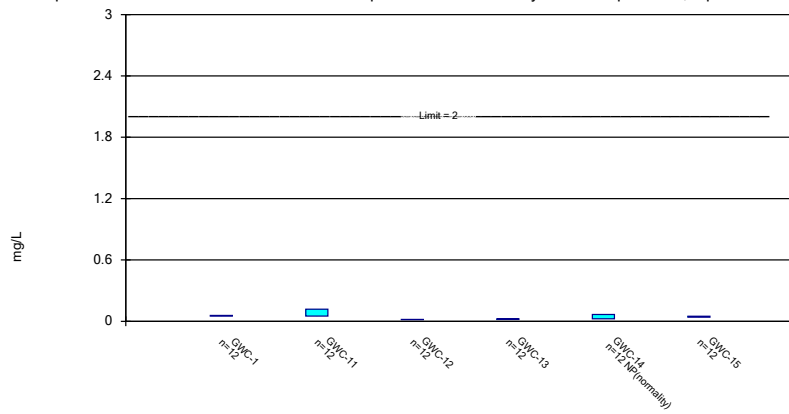
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Constituent: Arsenic Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

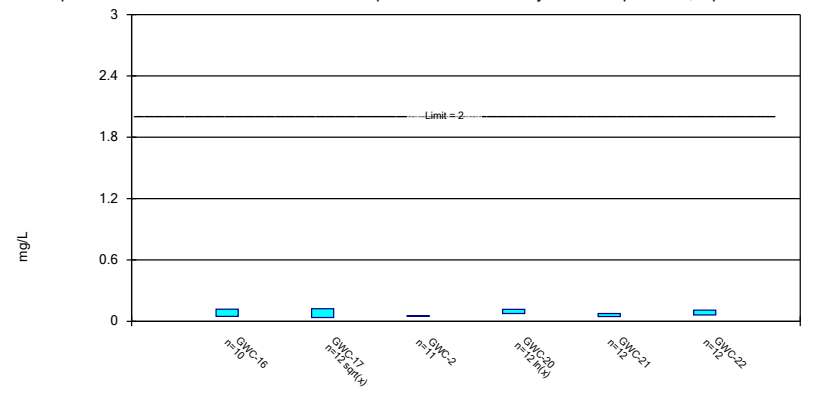
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Constituent: Barium Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

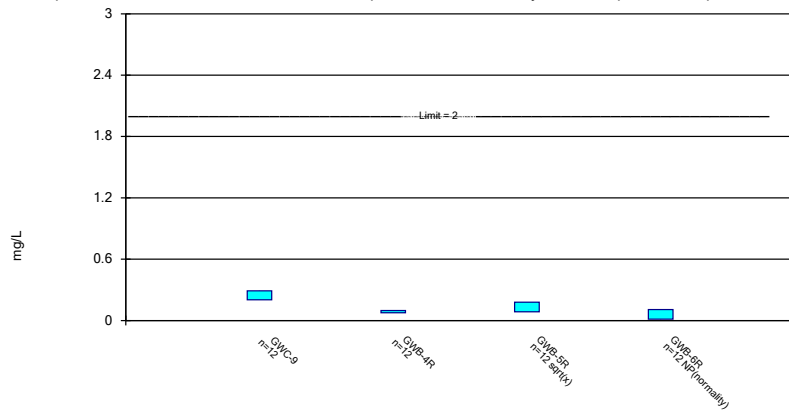
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Constituent: Barium Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

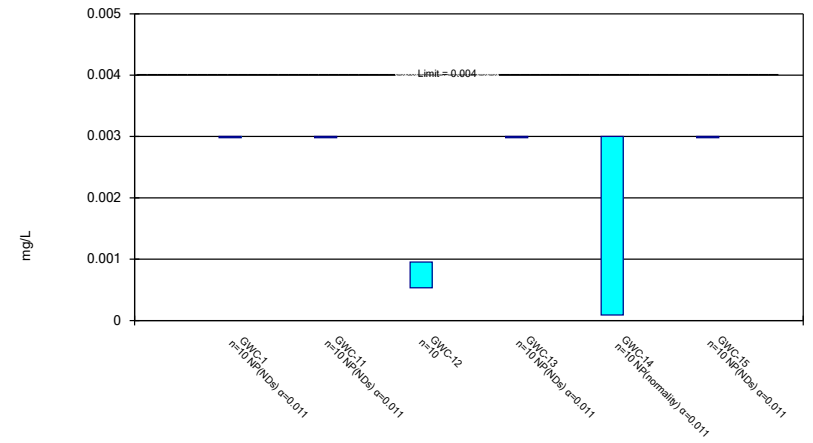
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Constituent: Barium Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

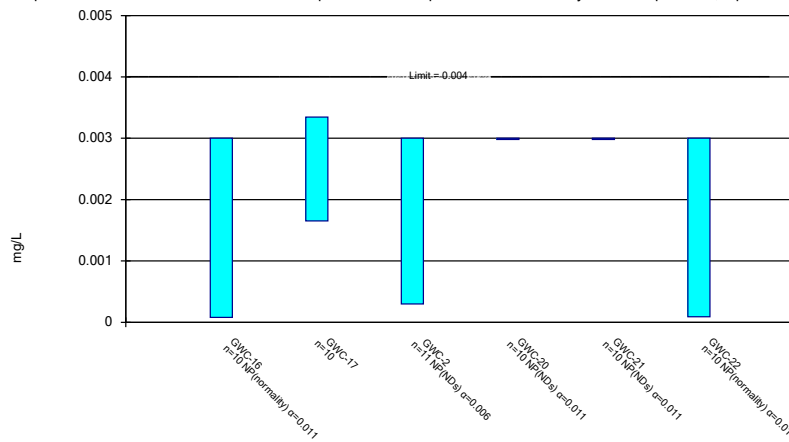
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Constituent: Beryllium Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

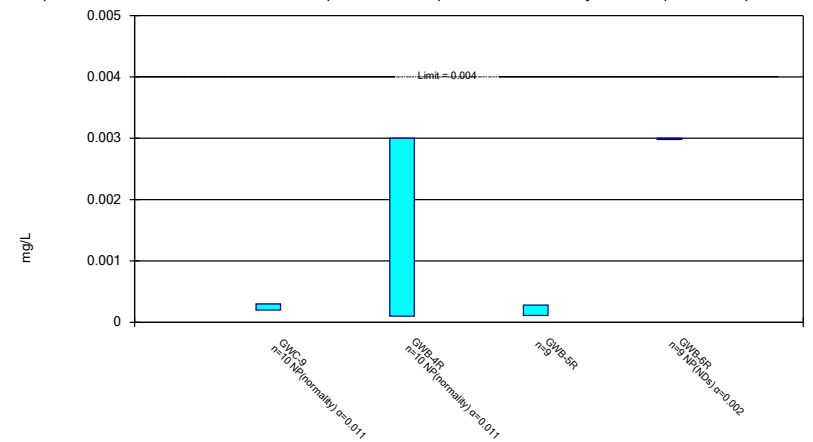
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

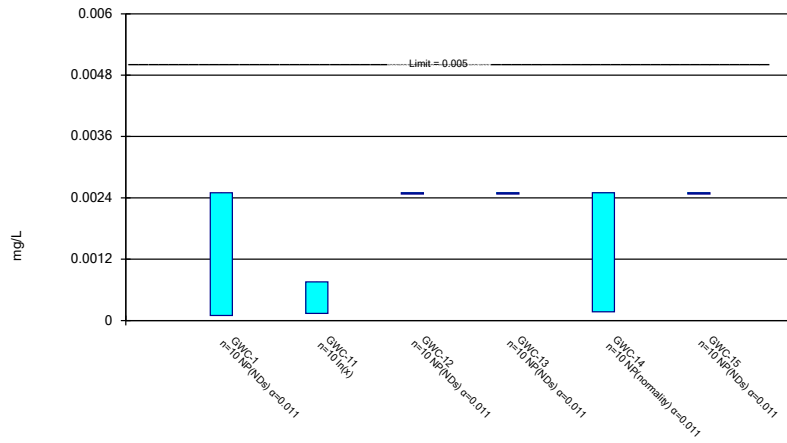
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Constituent: Beryllium Analysis Run 3/27/2020 6:13 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

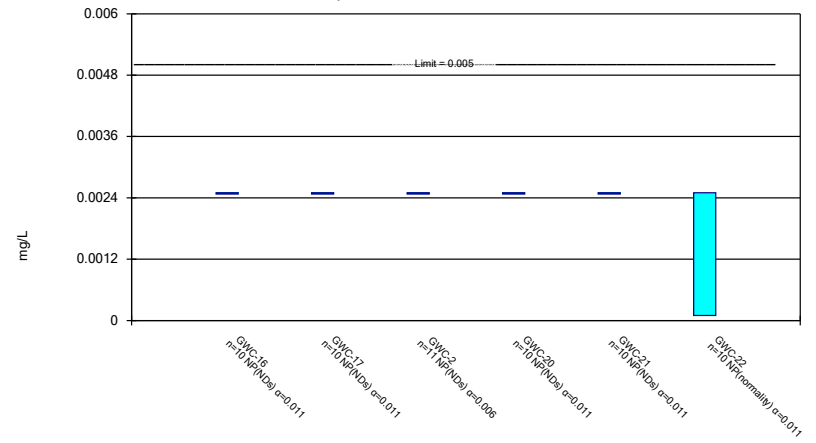
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Constituent: Cadmium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

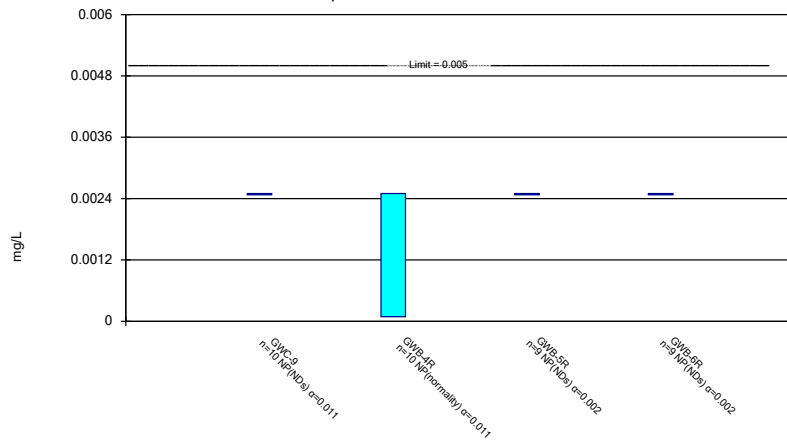
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

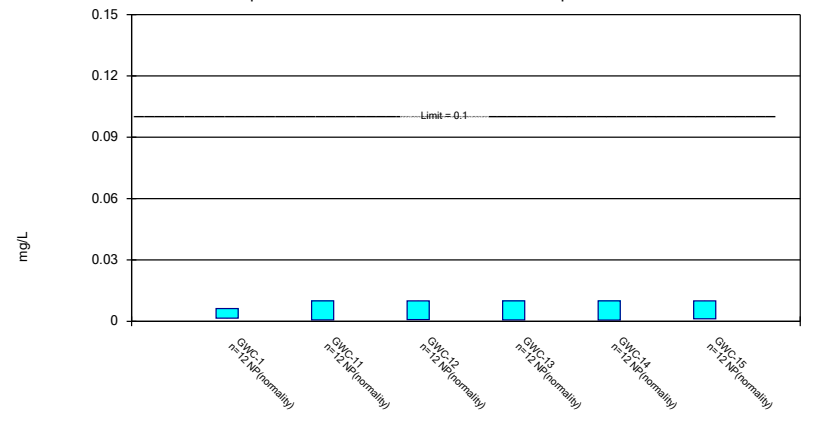
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

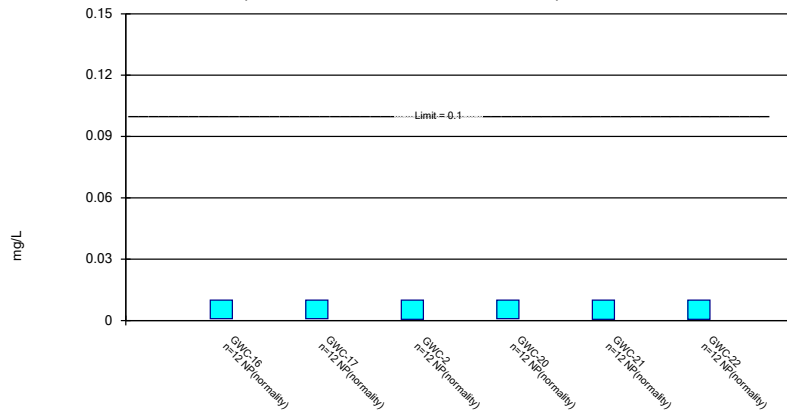
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Constituent: Chromium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

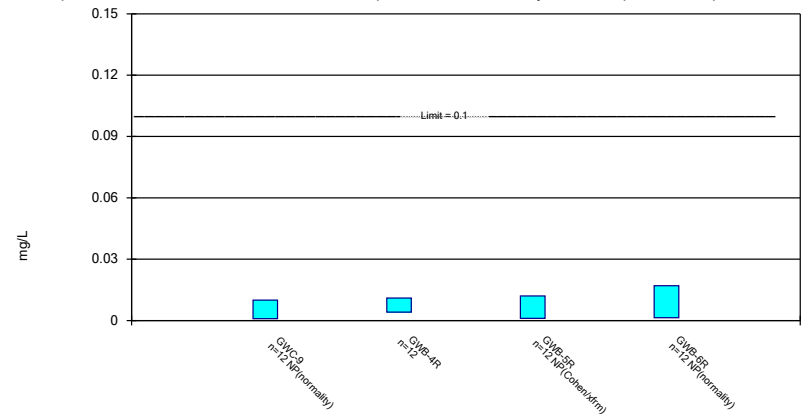
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

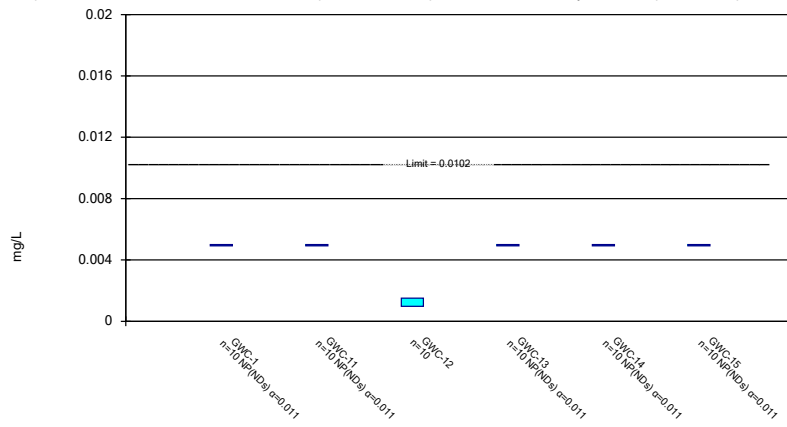
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

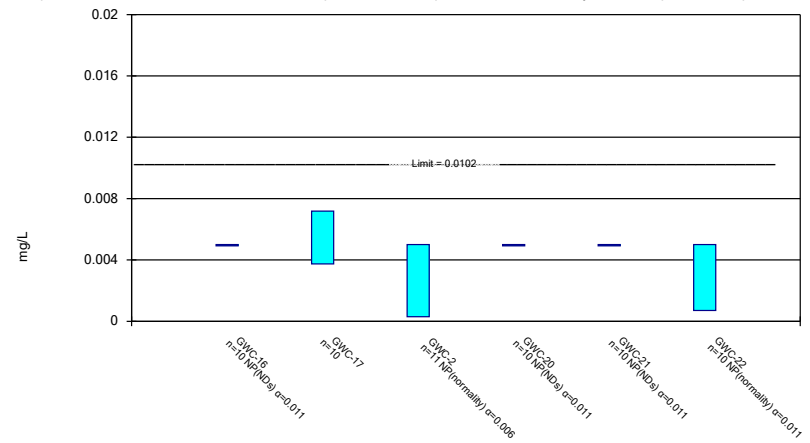
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

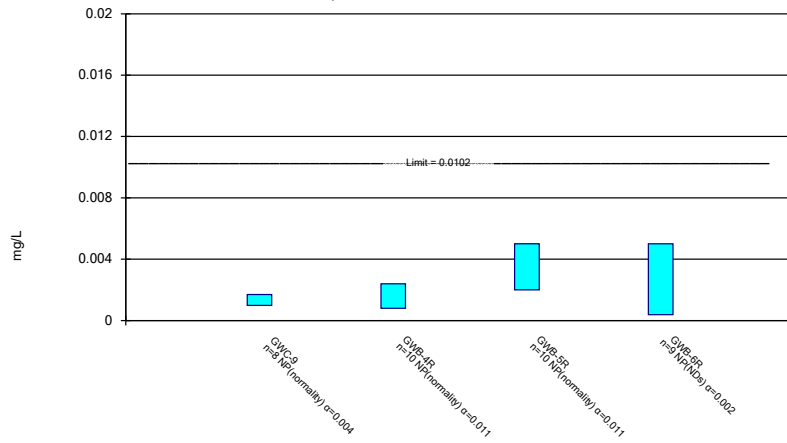
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

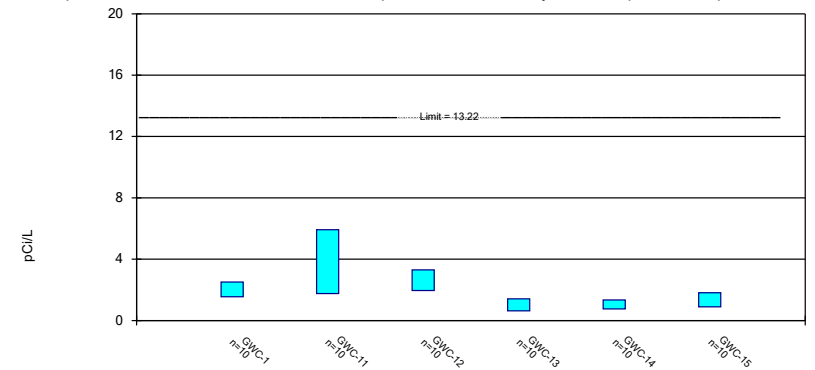
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

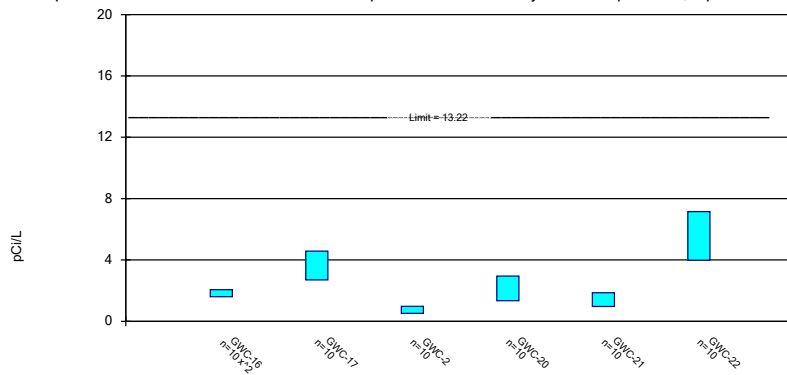
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

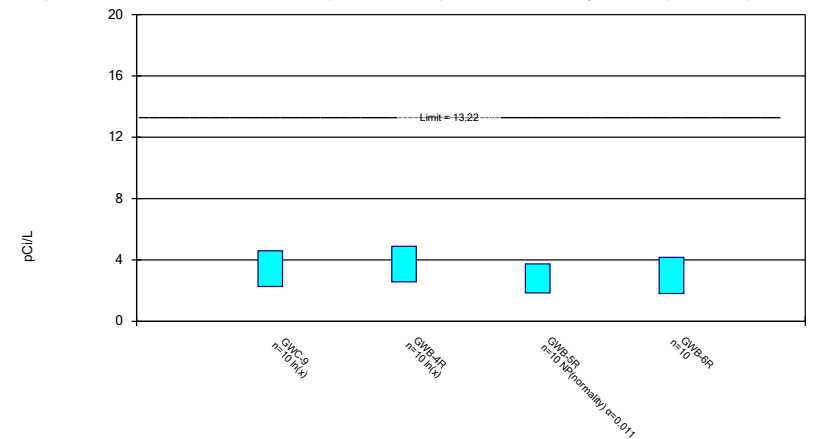
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

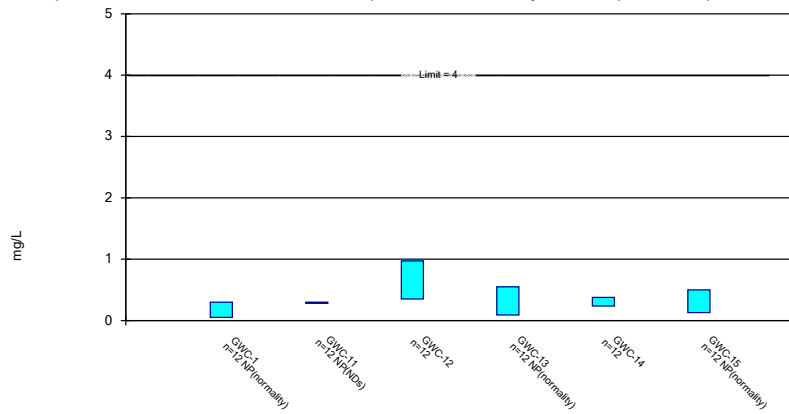
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

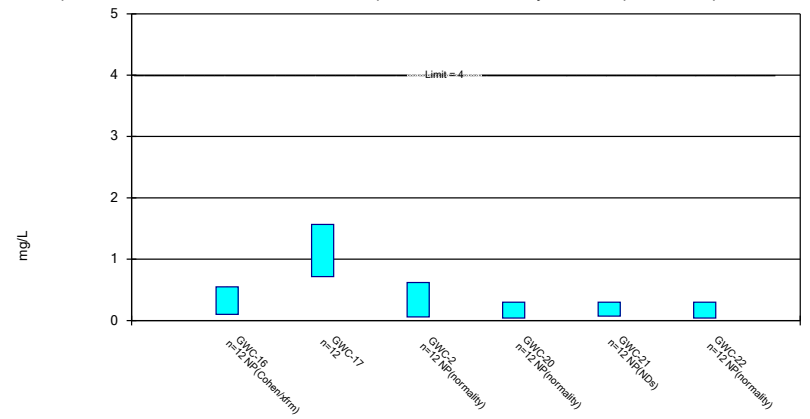
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

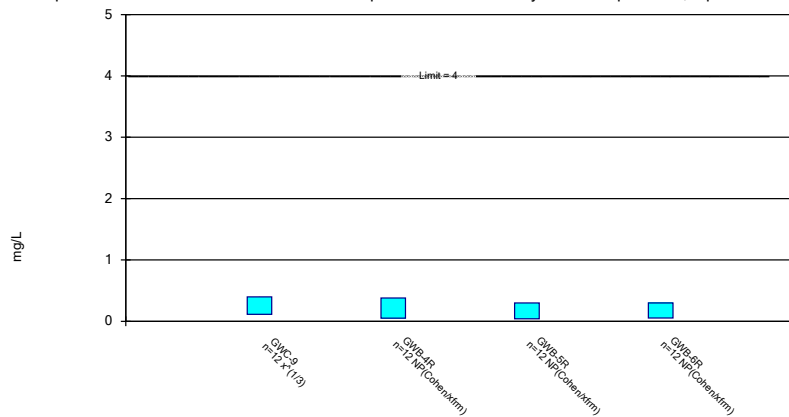
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

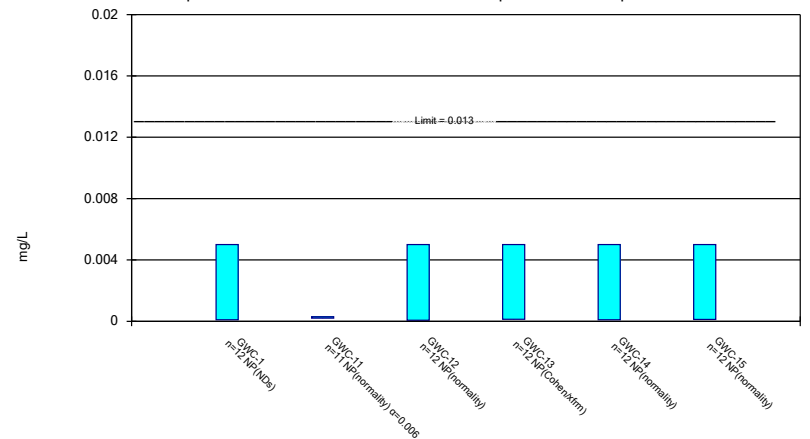
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

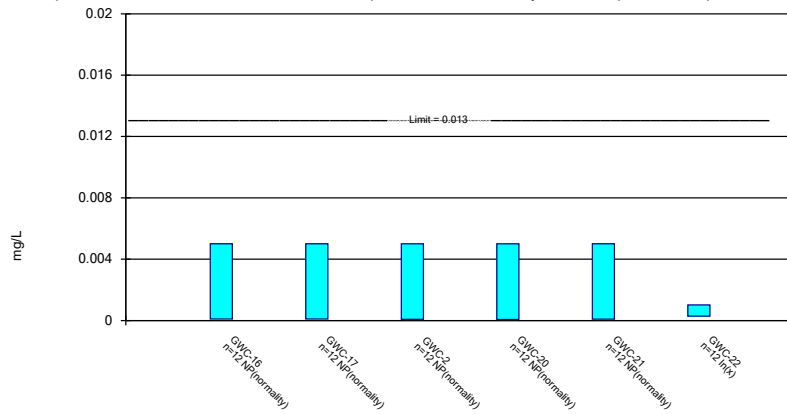
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

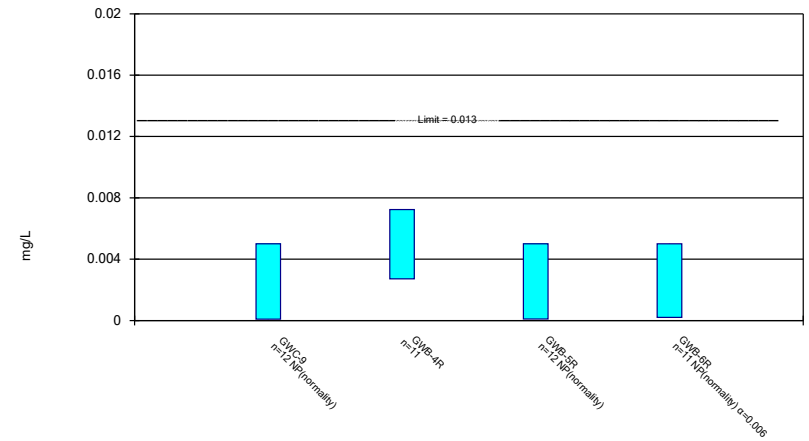
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

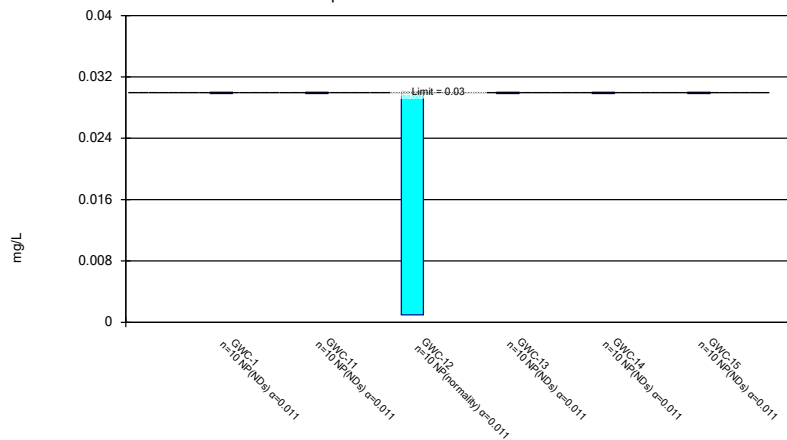
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

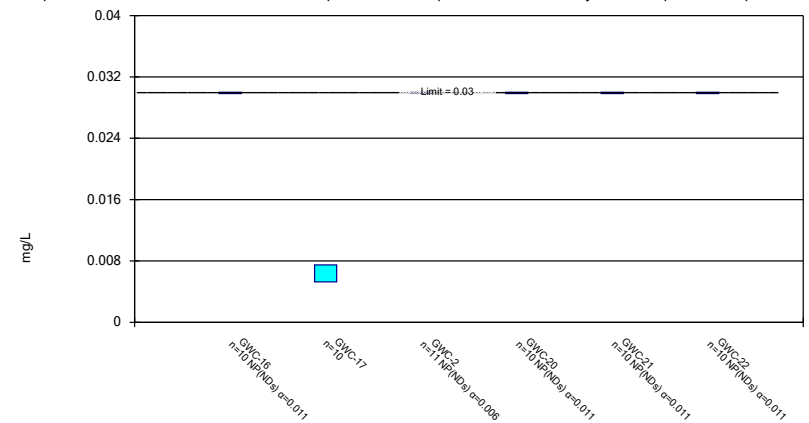
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

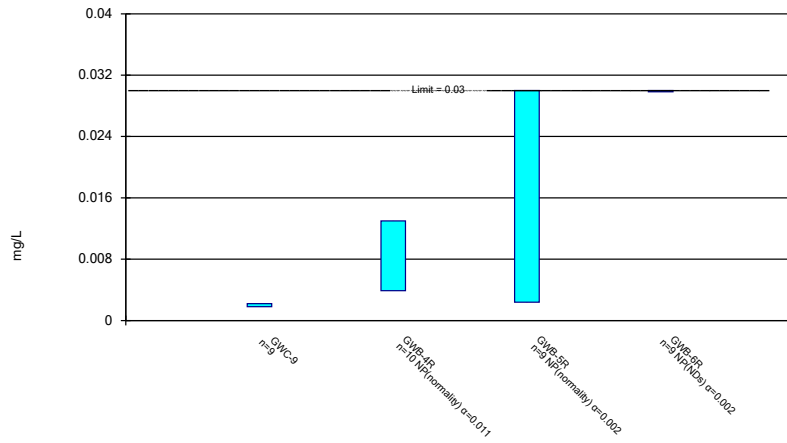
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

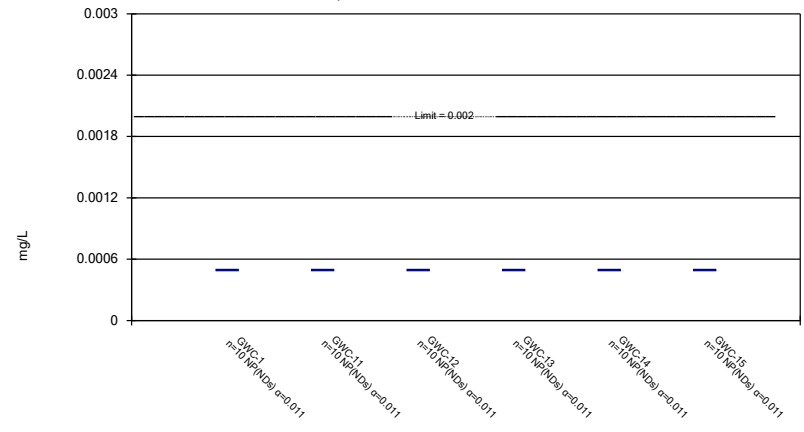
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

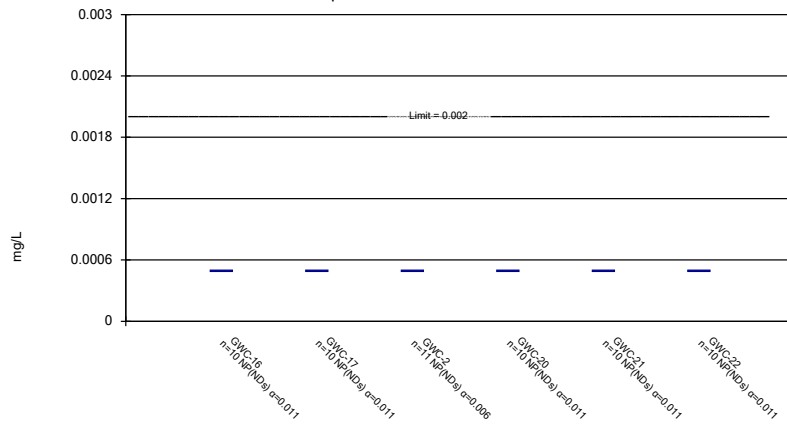
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

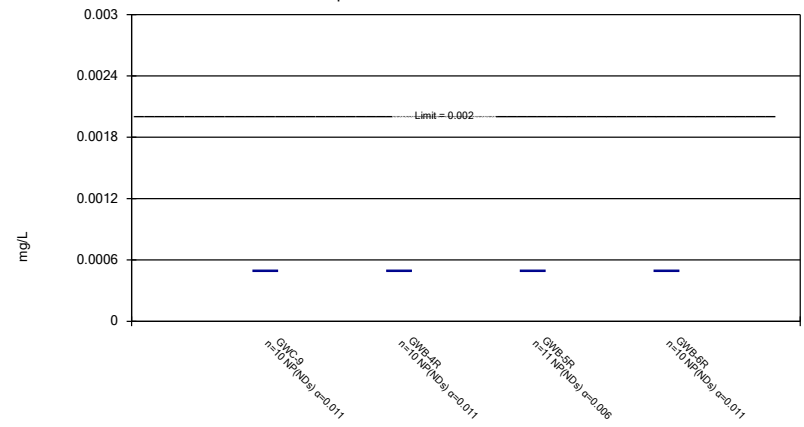
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

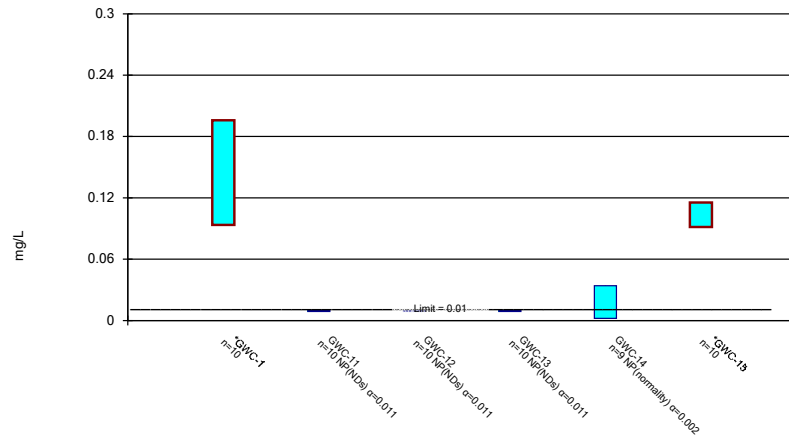
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

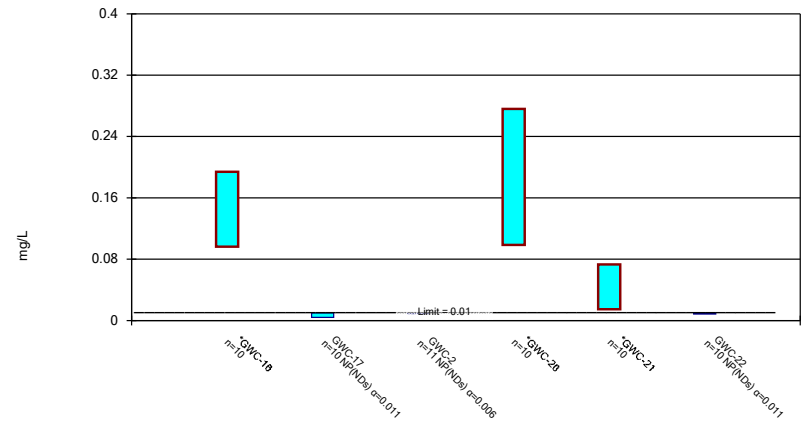
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

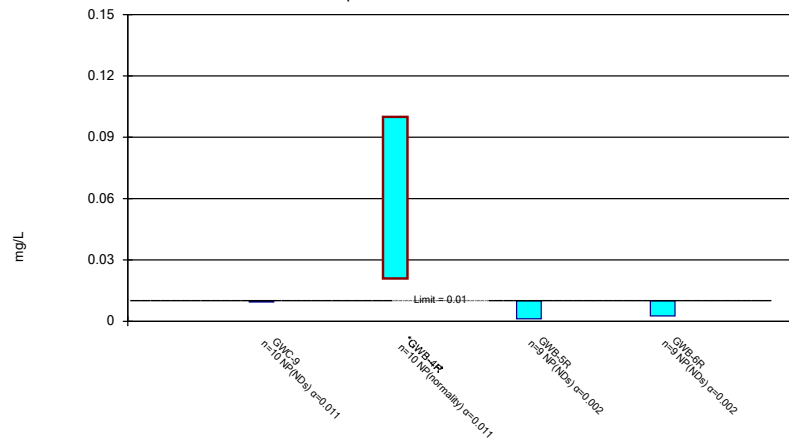
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

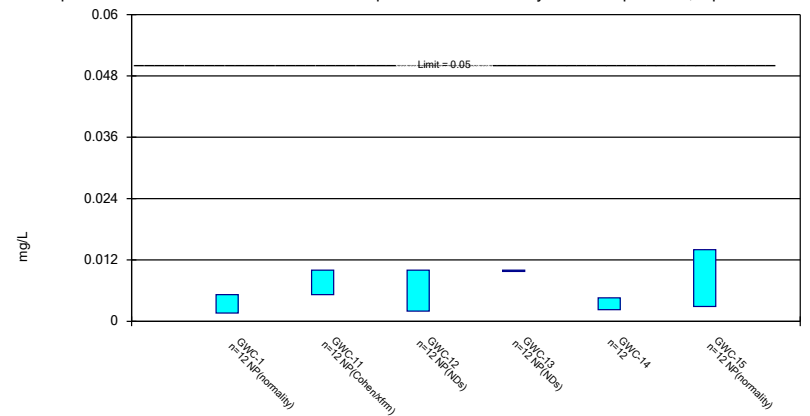
Compliance limit is exceeded.*



Constituent: Molybdenum Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

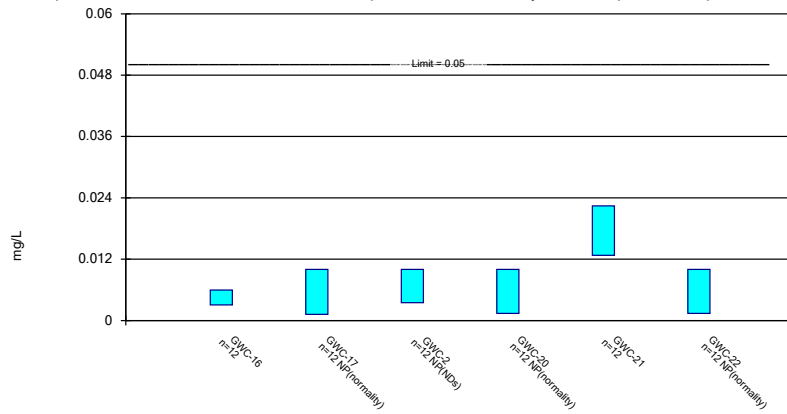
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/27/2020 6:14 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

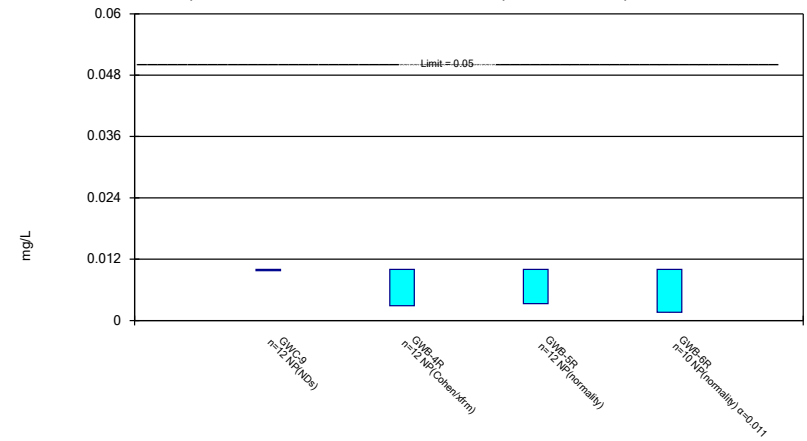
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

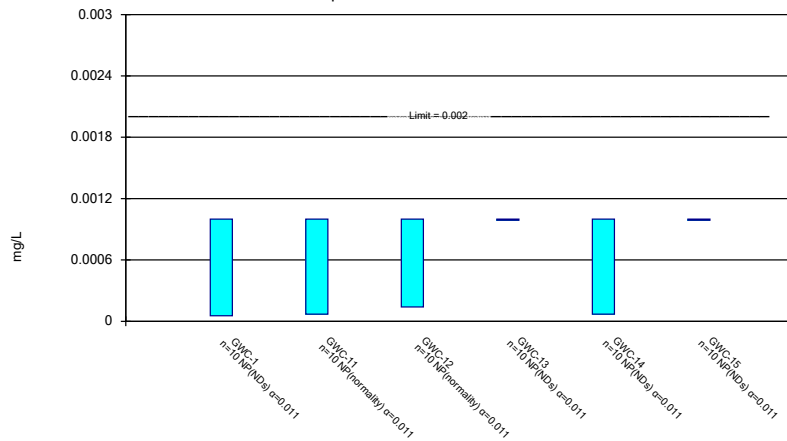
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

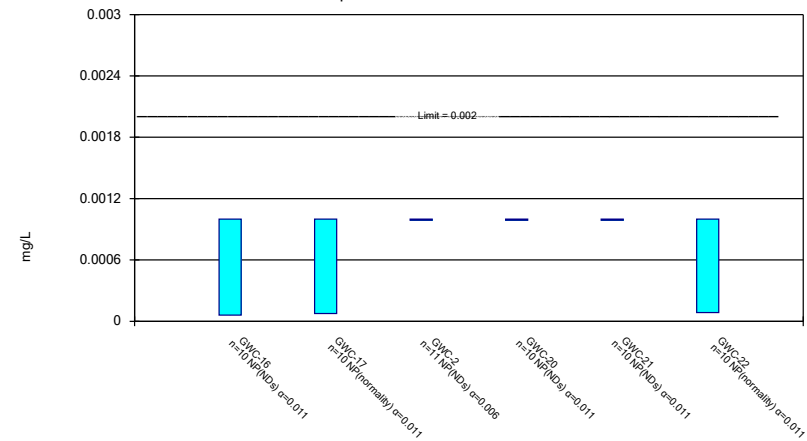
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

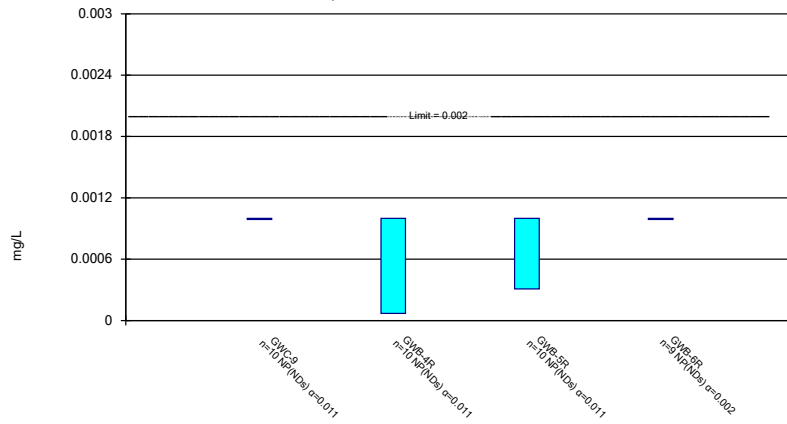
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

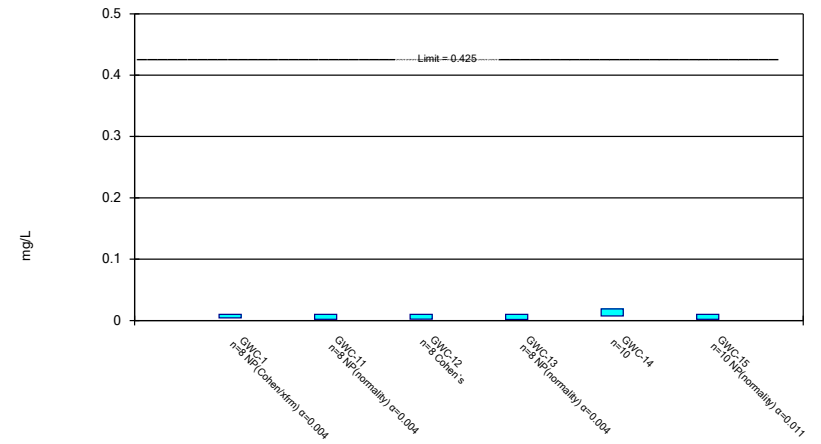
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

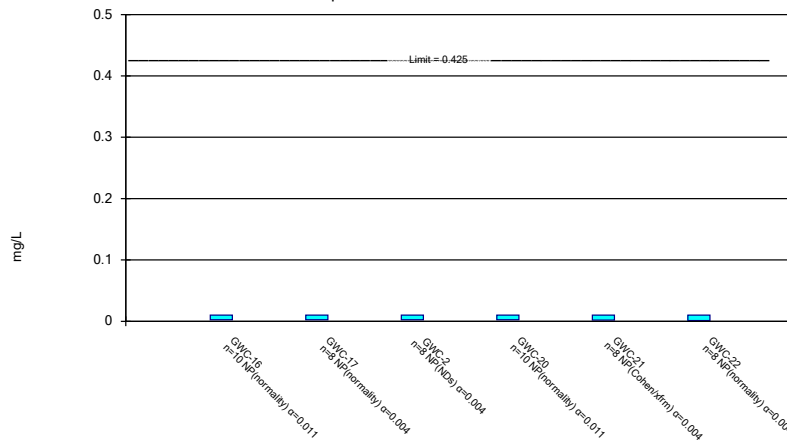
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

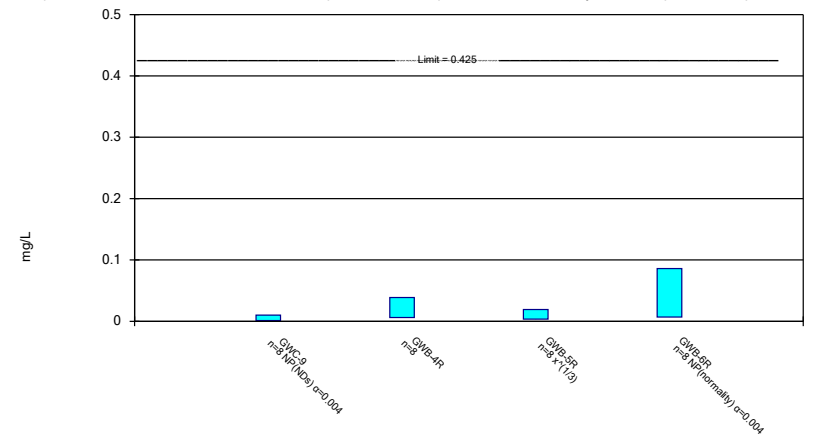
Compliance Limit is not exceeded.



Constituent: Vanadium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

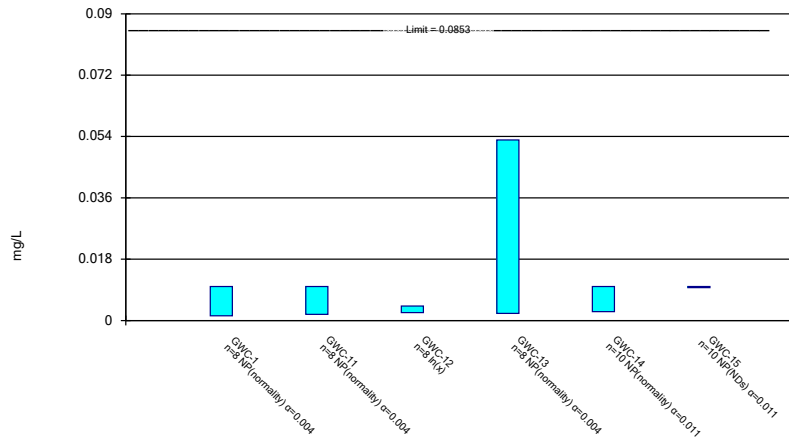
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Vanadium Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

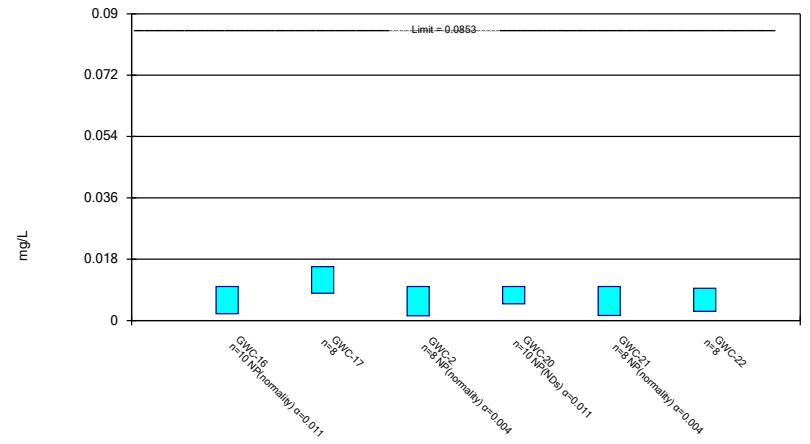
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

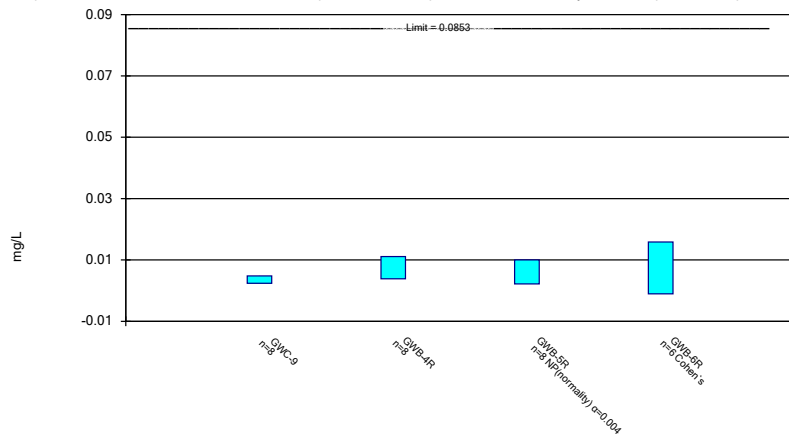
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

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 3/27/2020 6:15 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.003					
8/31/2016		<0.003	<0.003	<0.003		
9/1/2016					<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				<0.003	
4/5/2017			<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	<0.003	
1/17/2019		<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	<0.003	0.00033 (J)	<0.003	<0.003	<0.003	<0.003
10/8/2019		0.00046 (J)		<0.003	<0.003	<0.003
10/9/2019	<0.003		<0.003			
Mean	0.003	0.001999	0.003	0.003	0.003	0.003
Std. Dev.	0	0.001244	0	0	0	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.00046	0.003	0.003	0.003	0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.003	<0.003
8/31/2016	<0.003			
9/1/2016		<0.003		
10/26/2016		<0.003	<0.003	<0.003
10/27/2016	0.0016 (J)			
1/3/2017			<0.003	
1/5/2017				<0.003
1/6/2017	<0.003	<0.003		
4/4/2017		<0.003		
4/6/2017	<0.003		<0.003	<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003
10/3/2017			<0.003	<0.003
10/4/2017	<0.003	<0.003		
1/9/2018				<0.003
1/10/2018			<0.003	
1/11/2018	<0.003	<0.003		
7/10/2018			<0.003	<0.003
7/11/2018	<0.003	<0.003		
1/16/2019		<0.003	<0.003	
1/18/2019	<0.003			
3/25/2019		<0.003		
3/26/2019			<0.003	
3/27/2019	<0.003			
8/27/2019		<0.003		<0.003
8/28/2019	<0.003		0.00054 (J)	
10/9/2019	<0.003	<0.003		
Mean	0.002883	0.003	0.002776	0.003
Std. Dev.	0.0004041	0	0.0007417	0
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0016	0.003	0.003	0.003

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0023 (J)					
8/31/2016		<0.005	<0.005	<0.005		
9/1/2016					0.0024 (J)	0.0533
10/25/2016	0.0035 (J)				<0.005	0.0551
10/26/2016		<0.005	<0.005	<0.005		
1/4/2017	0.0018 (J)	<0.005	<0.005			
1/5/2017				<0.005	0.0024 (J)	0.0437
4/3/2017						0.0713
4/4/2017	0.0015 (J)				0.003 (J)	
4/5/2017			0.0006 (J)			
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	0.0015 (J)			<0.005		
10/2/2017					0.0026 (J)	0.0723
10/3/2017	0.0013 (J)	<0.005				
10/4/2017			0.0009 (J)	<0.005		
1/9/2018					0.0021 (J)	0.0731
1/10/2018	0.0023 (J)			0.0006 (J)		
1/11/2018		<0.005	<0.005			
7/9/2018					0.0019 (J)	
7/10/2018	0.0031 (J)					0.09
7/11/2018		<0.005	<0.005	<0.005		
1/16/2019	0.0023 (J)			<0.005	0.0016 (J)	
1/17/2019		<0.005	<0.005			0.13
3/26/2019	0.0032 (J)			0.00058 (J)	0.0023 (J)	0.1
3/27/2019		<0.005	<0.005			
8/27/2019	0.0022 (J)	<0.005	<0.005	<0.005	0.0017 (J)	0.17
10/8/2019		<0.005		<0.005	0.0017 (J)	0.13
10/9/2019	0.0042 (J)		<0.005			
Mean	0.002433	0.005	0.003942	0.004265	0.002383	0.08861
Std. Dev.	0.0008958	0	0.001916	0.001717	0.0009233	0.03763
Upper Lim.	0.003136	0.005	0.005	0.005	0.002896	0.1181
Lower Lim.	0.00173	0.005	0.0008	0.0006	0.001769	0.05908

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.0017 (J)
9/1/2016	0.0551	<0.005		0.215	0.0039 (J)	
10/25/2016	0.0466			0.307	<0.005	
10/26/2016		<0.005	<0.005			<0.005
1/4/2017	0.0444			0.311	<0.005	<0.005
1/5/2017		<0.005	<0.005			
4/4/2017			<0.005	0.317	0.0031 (J)	
4/5/2017	0.0591	0.0011 (J)				
4/6/2017						0.0006 (J)
7/11/2017				0.299		0.0012 (J)
7/12/2017	0.0776					
7/13/2017		0.0016 (J)	<0.005		<0.005	
10/2/2017				0.216		
10/3/2017	0.0813		<0.005		<0.005	
10/4/2017		0.0019 (J)				0.0025 (J)
1/9/2018					0.0033 (J)	
1/10/2018	0.085		0.0006 (J)	0.347		
1/11/2018		0.0015 (J)				0.0006 (J)
7/9/2018				0.37		
7/10/2018	0.067		<0.005		0.0027 (J)	
7/11/2018		0.00082 (J)				0.0011 (J)
1/16/2019		<0.005				
1/17/2019	0.079				0.0022 (J)	
1/18/2019						<0.005
1/21/2019			<0.005	0.44		
3/25/2019				0.41		
3/26/2019	0.089	0.0015 (J)			0.0045 (J)	
3/27/2019						<0.005
7/30/2019			0.00039 (J)			
8/27/2019			<0.005			0.00044 (J)
8/28/2019	0.091	0.0011 (J)		0.43	0.002 (J)	
10/8/2019	0.088				0.0028 (J)	
10/9/2019		0.0011 (J)	<0.005	0.35		<0.005
Mean	0.07193	0.002552	0.004249	0.3343	0.003708	0.002762
Std. Dev.	0.01686	0.00183	0.001754	0.07312	0.001164	0.002049
Upper Lim.	0.08515	0.005	0.005	0.3917	0.005305	0.005
Lower Lim.	0.0587	0.00082	0.0006	0.277	0.002777	0.0006

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
8/31/2016	<0.005			
9/1/2016		0.0033 (J)		
10/26/2016		0.0016 (J)	<0.005	<0.005
10/27/2016	<0.005			
1/3/2017			<0.005	
1/5/2017				0.0021 (J)
1/6/2017	<0.005	<0.005		
4/4/2017		0.0021 (J)		
4/6/2017	<0.005		0.0006 (J)	0.0011 (J)
7/12/2017	<0.005	0.0015 (J)	0.0009 (J)	0.0014 (J)
10/3/2017			0.001 (J)	0.0014 (J)
10/4/2017	<0.005	0.0018 (J)		
1/9/2018				0.0017 (J)
1/10/2018			0.0012 (J)	
1/11/2018	<0.005	0.0015 (J)		
7/10/2018			0.0016 (J)	0.00063 (J)
7/11/2018	<0.005	0.00095 (J)		
1/16/2019		0.0024 (J)	0.0011 (J)	
1/18/2019	<0.005			
3/25/2019		0.0029 (J)		
3/26/2019			0.0014 (J)	0.0029 (J)
3/27/2019	<0.005			
8/27/2019		0.0023 (J)		0.0035 (J)
8/28/2019	<0.005		0.0023 (J)	
10/9/2019	<0.005	0.0024 (J)	0.0053 (J)	0.0018 (J)
Mean	0.005	0.002312	0.002533	0.002412
Std. Dev.	0	0.001068	0.001924	0.001508
Upper Lim.	0.005	0.003151	0.0053	0.004022
Lower Lim.	0.005	0.001474	0.0009	0.001096

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0545					
8/31/2016		0.0565	0.019	0.0273		
9/1/2016					0.0346	0.0403
10/25/2016	0.0504				0.0248	0.0329
10/26/2016		0.0591	0.0197	0.0238		
1/4/2017	0.0534	0.0598	0.0174			
1/5/2017				0.0218	0.0245	0.0392
4/3/2017						0.0439
4/4/2017	0.0549				0.0342	
4/5/2017			0.0174			
4/6/2017		0.0813		0.0204		
7/10/2017			0.0172			
7/11/2017		0.0302			0.0276	0.051
7/12/2017	0.0614			0.0161		
10/2/2017					0.0274	0.047
10/3/2017	0.0436	0.103				
10/4/2017			0.0162	0.0185		
1/9/2018					0.0222	0.0431
1/10/2018	0.053			0.0166		
1/11/2018		0.166	0.018			
7/9/2018					0.026	
7/10/2018	0.059					0.047
7/11/2018		0.12	0.014	0.019		
1/16/2019	0.054			0.019	0.028	
1/17/2019		0.039	0.017			0.042
3/26/2019	0.055			0.026	0.034	0.047
3/27/2019		0.053	0.017			
8/27/2019	0.054	0.12	0.017	0.024	0.067	0.049
10/8/2019		0.13		0.024	0.085	0.057
10/9/2019	0.058		0.019			
Mean	0.05427	0.08483	0.01741	0.02138	0.03628	0.04495
Std. Dev.	0.004467	0.04225	0.001486	0.003661	0.01937	0.006208
Upper Lim.	0.05777	0.118	0.01857	0.02425	0.067	0.04982
Lower Lim.	0.05076	0.05167	0.01624	0.0185	0.0245	0.04008

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			0.0429			0.0693
9/1/2016	0.0445	0.203		0.0976	0.077	
10/25/2016	0.0464			0.0702	0.0217	
10/26/2016		0.177				0.0966
1/4/2017	0.0379			0.0999	0.0617	0.0975
1/5/2017		0.142	0.0526			
4/4/2017			0.0503	0.136	0.0761	
4/5/2017	0.0534	0.106				
4/6/2017						0.064
7/11/2017				0.145		0.0778
7/12/2017	0.0944					
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
1/9/2018					0.0704	
1/10/2018	0.0603		0.0527	0.0788		
1/11/2018		0.0412				0.0702
7/9/2018				0.087		
7/10/2018			0.054		0.061	
7/11/2018		0.049				0.12
1/16/2019		0.063				
1/17/2019	0.13				0.061	
1/18/2019						0.052
1/21/2019			0.05	0.069		
3/25/2019				0.085		
3/26/2019	0.14	0.025			0.084	
3/27/2019						0.057
7/30/2019			0.052			
8/27/2019			0.053			0.097
8/28/2019	0.09	0.026		0.078	0.063	
10/8/2019	0.13				0.079	
10/9/2019		0.032	0.05	0.078		0.065
Mean	0.08269	0.08264	0.05158	0.09771	0.06128	0.0852
Std. Dev.	0.03957	0.06072	0.003513	0.02896	0.01871	0.03005
Upper Lim.	0.118	0.1222	0.05451	0.1169	0.07596	0.1088
Lower Lim.	0.04738	0.037	0.04865	0.07591	0.04659	0.06162

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.135	0.106
8/31/2016	0.284			
9/1/2016		0.123		
10/26/2016		0.0863	0.103	0.107
10/27/2016	0.244			
1/3/2017			0.118	
1/5/2017				0.107
1/6/2017	0.305	0.0758		
4/4/2017		0.091		
4/6/2017	0.249		0.162	0.111
7/12/2017	0.256	0.0941	0.157	0.106
10/3/2017			0.127	0.105
10/4/2017	0.356	0.0994		
1/9/2018				0.0969
1/10/2018			0.158	
1/11/2018	0.226	0.088		
7/10/2018			0.31	0.087
7/11/2018	0.29	0.071		
1/16/2019		0.083	0.054	0.013 (J)
1/18/2019	0.21			
3/25/2019		0.077		
3/26/2019			0.057	0.012 (J)
3/27/2019	0.19			
8/27/2019		0.076		0.013
8/28/2019	0.17		0.1	
10/9/2019	0.18	0.076	0.13	0.014 (J)
Mean	0.2467	0.08672	0.1343	0.07316
Std. Dev.	0.05562	0.01432	0.0658	0.04485
Upper Lim.	0.2903	0.09795	0.1793	0.107
Lower Lim.	0.203	0.07548	0.0849	0.013

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.003					
8/31/2016		<0.003	0.0011 (J)	<0.003		
9/1/2016					0.0001 (J)	<0.003
10/25/2016	<0.003				<0.003	<0.003
10/26/2016		<0.003	0.0011 (J)	<0.003		
1/4/2017	<0.003	<0.003	0.0009 (J)			
1/5/2017				<0.003	<0.003	<0.003
4/3/2017						<0.003
4/4/2017	<0.003				9E-05 (J)	
4/5/2017			0.0008 (J)			
4/6/2017		<0.003		<0.003		
7/10/2017			0.0008 (J)			
7/11/2017		<0.003			<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			0.0006 (J)	<0.003		
1/9/2018					<0.003	<0.003
1/10/2018	<0.003			<0.003		
1/11/2018		<0.003	0.0006 (J)			
7/9/2018					6.2E-05 (J)	
7/10/2018	<0.003					<0.003
7/11/2018		<0.003	0.00061 (J)	5.8E-05 (J)		
8/27/2019	<0.003	<0.003	0.00047 (J)	<0.003	<0.003	<0.003
10/8/2019		<0.003		<0.003	<0.003	<0.003
10/9/2019	<0.003		0.00046 (J)			
Mean	0.003	0.003	0.000744	0.002706	0.002125	0.003
Std. Dev.	0	0	0.0002355	0.0009303	0.001409	0
Upper Lim.	0.003	0.003	0.0009541	0.003	0.003	0.003
Lower Lim.	0.003	0.003	0.0005339	0.003	9E-05	0.003

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.003			0.0002 (J)
9/1/2016	0.0001 (J)	0.0014 (J)		<0.003	<0.003	
10/25/2016	<0.003			<0.003	<0.003	
10/26/2016		0.0016 (J)	0.0003 (J)			0.0002 (J)
1/4/2017	9E-05 (J)			<0.003	<0.003	0.0001 (J)
1/5/2017		0.0019 (J)	<0.003			
4/4/2017			9E-05 (J)	<0.003	<0.003	
4/5/2017	9E-05 (J)	0.0024 (J)				
4/6/2017						<0.003
7/11/2017				<0.003		<0.003
7/12/2017	<0.003					
7/13/2017		0.0034	<0.003		<0.003	
10/2/2017				<0.003		
10/3/2017	<0.003		<0.003		<0.003	
10/4/2017		0.0037				0.0001 (J)
1/9/2018					<0.003	
1/10/2018	0.0001 (J)		<0.003	<0.003		
1/11/2018		0.0033				<0.003
7/9/2018				<0.003		
7/10/2018	6E-05 (J)		<0.003		<0.003	
7/11/2018		0.0038				7E-05 (J)
7/30/2019			<0.003			
8/27/2019			<0.003			9E-05 (J)
8/28/2019	8E-05 (J)	0.0017 (J)		<0.003	<0.003	
10/8/2019	9.8E-05 (J)				<0.003	
10/9/2019		0.0018 (J)	<0.003	<0.003		<0.003
Mean	0.0009618	0.0025	0.00249	0.003	0.003	0.001276
Std. Dev.	0.001407	0.0009487	0.001136	0	0	0.001484
Upper Lim.	0.003	0.003346	0.003	0.003	0.003	0.003
Lower Lim.	8E-05	0.001654	0.0003	0.003	0.003	9E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.0002 (J)	<0.003
8/31/2016	0.0003 (J)			
9/1/2016		0.0004 (J)		
10/26/2016		0.0001 (J)	0.0001 (J)	<0.003
10/27/2016	0.0003 (J)			
1/3/2017			0.0001 (J)	
1/5/2017				<0.003
1/6/2017	0.0002 (J)	0.0001 (J)		
4/4/2017		0.0001 (J)		
4/6/2017	0.0003 (J)		0.0003 (J)	<0.003
7/12/2017	0.0003 (J)	<0.003	0.0002 (J)	<0.003
10/3/2017			0.0002 (J)	<0.003
10/4/2017	0.0002 (J)	0.0001 (J)		
1/9/2018				<0.003
1/10/2018			0.0003 (J)	
1/11/2018	0.0003 (J)	0.0001 (J)		
7/10/2018			0.00028 (J)	<0.003
7/11/2018	0.0003 (J)	<0.003		
8/27/2019		<0.003		<0.003
8/28/2019	0.00022 (J)		7.6E-05 (J)	
10/9/2019	0.00023 (J)	<0.003		
Mean	0.000265	0.00129	0.0001951	0.003
Std. Dev.	4.601E-05	0.001475	8.772E-05	0
Upper Lim.	0.0003	0.003	0.0002798	0.003
Lower Lim.	0.0002	0.0001	0.0001104	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.0025					
8/31/2016		0.0002 (J)	<0.0025	<0.0025		
9/1/2016					0.0001 (J)	<0.0025
10/25/2016	<0.0025				0.0002 (J)	<0.0025
10/26/2016		0.0001 (J)	<0.0025	<0.0025		
1/4/2017	0.0001 (J)	0.0001 (J)	<0.0025			
1/5/2017				<0.0025	0.0002 (J)	<0.0025
4/3/2017						<0.0025
4/4/2017	7E-05 (J)				0.0002 (J)	
4/5/2017			<0.0025			
4/6/2017		0.0002 (J)		<0.0025		
7/10/2017			<0.0025			
7/11/2017		<0.0025			0.0002 (J)	<0.0025
7/12/2017	<0.0025			<0.0025		
10/2/2017					<0.0025	<0.0025
10/3/2017	<0.0025	0.0003 (J)				
10/4/2017			<0.0025	<0.0025		
1/9/2018					<0.0025	<0.0025
1/10/2018	<0.0025			<0.0025		
1/11/2018		0.0006 (J)	<0.0025			
7/9/2018					0.00017 (J)	
7/10/2018	<0.0025					<0.0025
7/11/2018		0.0004 (J)	<0.0025	<0.0025		
8/27/2019	<0.0025	0.00044 (J)	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2019		0.00043 (J)		<0.0025	<0.0025	<0.0025
10/9/2019	<0.0025		<0.0025			
Mean	0.002017	0.000527	0.0025	0.0025	0.001107	0.0025
Std. Dev.	0.001018	0.0007119	0	0	0.001199	0
Upper Lim.	0.0025	0.0007567	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0001	0.0001406	0.0025	0.0025	0.00017	0.0025

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.0025	<0.0025
8/31/2016	<0.0025			
9/1/2016		0.0002 (J)		
10/26/2016		<0.0025	<0.0025	<0.0025
10/27/2016	<0.0025			
1/3/2017			<0.0025	
1/5/2017				<0.0025
1/6/2017	<0.0025	9E-05 (J)		
4/4/2017		9E-05 (J)		
4/6/2017	<0.0025		<0.0025	<0.0025
7/12/2017	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2017			<0.0025	<0.0025
10/4/2017	<0.0025	<0.0025		
1/9/2018				<0.0025
1/10/2018			<0.0025	
1/11/2018	<0.0025	0.0002 (J)		
7/10/2018			<0.0025	<0.0025
7/11/2018	<0.0025	<0.0025		
8/27/2019		<0.0025		<0.0025
8/28/2019	<0.0025		<0.0025	
10/9/2019	<0.0025	<0.0025		
Mean	0.0025	0.001558	0.0025	0.0025
Std. Dev.	0	0.001217	0	0
Upper Lim.	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	9E-05	0.0025	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0015 (J)					
8/31/2016		0.001 (J)	0.0012 (J)	0.0011 (J)		
9/1/2016					0.0015 (J)	0.0011 (J)
10/25/2016	0.0018 (J)				<0.01	<0.01
10/26/2016		<0.01	0.0012 (J)	<0.01		
1/4/2017	0.0021 (J)	<0.01	0.0012 (J)			
1/5/2017				<0.01	0.001 (J)	<0.01
4/3/2017						0.0015 (J)
4/4/2017	0.002 (J)				0.001 (J)	
4/5/2017			0.0013 (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	0.0021 (J)			0.0007 (J)		
10/2/2017					0.0009 (J)	0.0013 (J)
10/3/2017	0.0014 (J)	0.0007 (J)				
10/4/2017			0.0011 (J)	0.0008 (J)		
1/9/2018					0.0006 (J)	0.0012 (J)
1/10/2018	0.0017 (J)			0.0007 (J)		
1/11/2018		0.0098 (J)	0.001 (J)			
7/9/2018					<0.01	
7/10/2018	0.0021 (J)					<0.01
7/11/2018		<0.01	<0.01	0.0019 (J)		
1/16/2019	0.0021 (J)			<0.01	<0.01	
1/17/2019		<0.01	0.0028 (J)			<0.01
3/26/2019	0.0018 (J)			<0.01	<0.01	<0.01
3/27/2019		<0.01	<0.01			
8/27/2019	0.0062 (J)	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)
10/8/2019		0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)
10/9/2019	0.0019 (J)		0.00081 (J)			
Mean	0.002225	0.005386	0.002738	0.005525	0.003944	0.004975
Std. Dev.	0.001274	0.004786	0.00343	0.004684	0.004479	0.004439
Upper Lim.	0.0062	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0007	0.00085	0.0007	0.0006	0.0012

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			<0.01
9/1/2016	0.0011 (J)	0.0011 (J)		<0.01	<0.01	
10/25/2016	<0.01			<0.01	<0.01	
10/26/2016		<0.01	0.001 (J)			<0.01
1/4/2017	<0.01			<0.01	<0.01	<0.01
1/5/2017		0.0012 (J)	<0.01			
4/4/2017			0.0008 (J)	0.0011 (J)	0.0008 (J)	
4/5/2017	0.001 (J)	0.0015 (J)				
4/6/2017						0.0006 (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	0.0009 (J)		<0.01		0.0005 (J)	
10/4/2017		0.0055 (J)				0.0006 (J)
1/9/2018					0.0007 (J)	
1/10/2018	0.0007 (J)		<0.01	0.0008 (J)		
1/11/2018		0.0009 (J)				<0.01
7/9/2018				<0.01		
7/10/2018	<0.01		<0.01		<0.01	
7/11/2018		<0.01				<0.01
1/16/2019		<0.01				
1/17/2019	0.01 (J)				0.01	
1/18/2019						<0.01
1/21/2019			<0.01	<0.01		
3/25/2019				<0.01		
3/26/2019	<0.01	<0.01			<0.01	
3/27/2019						<0.01
7/30/2019			0.00065 (J)			
8/27/2019			<0.01			0.00057 (J)
8/28/2019	0.0011 (J)	0.0013 (J)		0.00089 (J)	0.00087 (J)	
10/8/2019	0.00099 (J)				0.00065 (J)	
10/9/2019		0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)
Mean	0.004741	0.004459	0.006128	0.005474	0.005343	0.006082
Std. Dev.	0.004644	0.004276	0.004786	0.004728	0.004865	0.004842
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0009	0.0009	0.0006	0.00089	0.0006	0.00057

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	0.0013 (J)
8/31/2016	0.0024 (J)			
9/1/2016		0.015		
10/26/2016		0.0106	<0.01	0.0014 (J)
10/27/2016	<0.01			
1/3/2017			0.001 (J)	
1/5/2017				0.002 (J)
1/6/2017	<0.01	0.0098 (J)		
4/4/2017		0.0101		
4/6/2017	0.0019 (J)		0.0013 (J)	0.0034 (J)
7/12/2017	0.0011 (J)	0.0096 (J)	0.0011 (J)	0.0024 (J)
10/3/2017			0.0012 (J)	0.0022 (J)
10/4/2017	0.0011 (J)	0.0097 (J)		
1/9/2018				0.0019 (J)
1/10/2018			0.0016 (J)	
1/11/2018	0.001 (J)	0.0109		
7/10/2018			0.0055 (J)	0.0023 (J)
7/11/2018	<0.01	0.0055 (J)		
1/16/2019		0.0024 (J)	<0.01	0.018 (J)
1/18/2019	<0.01			
3/25/2019		0.002 (J)		
3/26/2019			0.072	0.017 (J)
3/27/2019	<0.01			
8/27/2019		0.0027 (J)		0.0097 (J)
8/28/2019	0.00089 (J)		0.0071 (J)	
10/9/2019	0.0009 (J)	0.002 (J)	0.012 (J)	0.011 (J)
Mean	0.004941	0.007525	0.01107	0.00605
Std. Dev.	0.004487	0.004393	0.01965	0.006235
Upper Lim.	0.01	0.01097	0.012	0.017
Lower Lim.	0.0009	0.004078	0.0011	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.005					
8/31/2016		<0.005	0.0018 (J)	<0.005		
9/1/2016					<0.005	<0.005
10/25/2016	<0.005				<0.005	<0.005
10/26/2016		<0.005	0.0016 (J)	<0.005		
1/4/2017	<0.005	<0.005	0.0014 (J)			
1/5/2017				<0.005	<0.005	<0.005
4/3/2017						<0.005
4/4/2017	<0.005				<0.005	
4/5/2017			0.0013 (J)			
4/6/2017		<0.005		<0.005		
7/10/2017			0.0013 (J)			
7/11/2017		<0.005			0.0003 (J)	<0.005
7/12/2017	<0.005			<0.005		
10/2/2017					<0.005	<0.005
10/3/2017	<0.005	<0.005				
10/4/2017			0.0011 (J)	<0.005		
1/9/2018					<0.005	<0.005
1/10/2018	<0.005			<0.005		
1/11/2018		0.0003 (J)	0.0011 (J)			
7/9/2018					<0.005	
7/10/2018	<0.005					<0.005
7/11/2018		<0.005	0.00096 (J)	<0.005		
8/27/2019	<0.005	<0.005	0.0009 (J)	<0.005	<0.005	<0.005
10/8/2019		<0.005		<0.005	<0.005	<0.005
10/9/2019	<0.005		0.00094 (J)			
Mean	0.005	0.00453	0.00124	0.005	0.00453	0.005
Std. Dev.	0	0.001486	0.000298	0	0.001486	0
Upper Lim.	0.005	0.005	0.001506	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.0009741	0.005	0.005	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.001 (J)
9/1/2016	<0.005	0.0046 (J)		<0.005	<0.005	
10/25/2016	<0.005			<0.005	<0.005	
10/26/2016		0.0046 (J)	0.0011 (J)			0.0009 (J)
1/4/2017	<0.005			<0.005	<0.005	0.0007 (J)
1/5/2017		0.0062 (J)	<0.005			
4/4/2017			<0.005	<0.005	<0.005	
4/5/2017	<0.005	0.007 (J)				
4/6/2017						<0.005
7/11/2017				<0.005		<0.005
7/12/2017	<0.005					
7/13/2017		0.0077 (J)	0.0003 (J)		<0.005	
10/2/2017				<0.005		
10/3/2017	<0.005		0.0003 (J)		<0.005	
10/4/2017		0.0073 (J)				0.0007 (J)
1/9/2018					<0.005	
1/10/2018	<0.005		<0.005	<0.005		
1/11/2018		0.0061 (J)				<0.005
7/9/2018				<0.005		
7/10/2018	<0.005		<0.005		<0.005	
7/11/2018		0.0064 (J)				<0.005
7/30/2019			0.00032 (J)			
8/27/2019			<0.005			0.00077 (J)
8/28/2019	<0.005	0.0023 (J)		<0.005	<0.005	
10/8/2019	<0.005				<0.005	
10/9/2019		0.0024 (J)	<0.005	<0.005		<0.005
Mean	0.005	0.00546	0.003365	0.005	0.005	0.002907
Std. Dev.	0	0.001928	0.002278	0	0	0.002208
Upper Lim.	0.005	0.00718	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00374	0.0003	0.005	0.005	0.0007

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
9/1/2016		0.0024 (J)		
10/26/2016		0.0011 (J)	<0.005	<0.005
10/27/2016	0.0017 (J)			
1/3/2017			<0.005	
1/5/2017				<0.005
1/6/2017	0.0017 (J)	0.001 (J)		
4/4/2017		0.001 (J)		
4/6/2017	0.0017 (J)		<0.005	<0.005
7/12/2017	0.0016 (J)	0.0008 (J)	<0.005	<0.005
10/3/2017			<0.005	<0.005
10/4/2017		0.001 (J)		
1/9/2018				<0.005
1/10/2018			0.0004 (J)	
1/11/2018	0.0017 (J)	0.0008 (J)		
7/10/2018			0.002 (J)	<0.005
7/11/2018	0.0017 (J)	<0.005		
8/27/2019		0.0011 (J)		0.00038 (J)
8/28/2019	0.00099 (J)		0.0024 (J)	
10/9/2019	0.00099 (J)	0.0015 (J)	0.0037 (J)	
Mean	0.00151	0.00157	0.00385	0.004487
Std. Dev.	0.0003228	0.001294	0.001679	0.00154
Upper Lim.	0.0017	0.0024	0.005	0.005
Lower Lim.	0.00099	0.0008	0.002	0.00038

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	2.36					
8/31/2016		2.2	2.61	1.23		
9/1/2016					1.28	2.45
10/25/2016	2.02				1.54	1.04 (U)
10/26/2016		1.96	3.28	0.641 (U)		
1/4/2017	2.1	1.88	3.77			
1/5/2017				0.657 (U)	0.715 (U)	1.36
4/3/2017						0.697 (U)
4/4/2017	1.39 (U)				0.699 (U)	
4/5/2017			3.25			
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	1.63			0.414 (U)		
10/2/2017					0.855 (U)	1.52
10/3/2017	1.84	4.73				
10/4/2017			1.68	1.33		
1/9/2018					0.861 (U)	1.17
1/10/2018	2.11			1.21		
1/11/2018		7.49	2.94			
7/9/2018					0.693 (U)	
7/10/2018	1.29					1.26
7/11/2018		5.88	2.03	1.4 (U)		
8/27/2019	2.41	5.09	2.09	1.27	1.32	1.75
10/8/2019		6.39		1.62	1.41	1.52
10/9/2019	3.13		3.11			
Mean	2.028	3.84	2.631	1.021	1.049	1.352
Std. Dev.	0.5404	2.331	0.7567	0.4376	0.3227	0.5106
Upper Lim.	2.51	5.92	3.306	1.412	1.337	1.808
Lower Lim.	1.546	1.761	1.956	0.6307	0.7614	0.8966

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			1.01			5.96
9/1/2016	1.99	5.19		2.21	1.05	
10/25/2016	1.98			1.51 (U)	1.2	
10/26/2016		4.25	0.725 (U)			7.42
1/4/2017	1.72			2.56	2.11	6.07
1/5/2017		3.55	0.735 (U)			
4/4/2017			0.87 (U)	1.77	2.02	
4/5/2017	1.72	4.39				
4/6/2017						3
7/11/2017				2.76		4.2
7/12/2017	1.11					
7/13/2017		2.44	0.42 (U)		0.576 (U)	
10/2/2017				4.15		
10/3/2017	2.13		0.995 (U)		0.86	
10/4/2017		4.95				7.16
1/9/2018					1.43	
1/10/2018	1.74		0.698 (U)	1.96		
1/11/2018		3.53				3.57
7/9/2018				1.11		
7/10/2018	1.97		1.01		1.63	
7/11/2018		3.13				7.57
8/27/2019			0.787 (U)			7.04
8/28/2019	2.04	2.01		1.13 (U)	1.4 (U)	
10/8/2019	1.89				1.88	
10/9/2019		2.91	0.22 (U)	2.28		3.68
Mean	1.829	3.635	0.747	2.144	1.416	5.567
Std. Dev.	0.2898	1.052	0.2591	0.8989	0.5059	1.782
Upper Lim.	2.064	4.574	0.9782	2.946	1.867	7.157
Lower Lim.	1.607	2.696	0.5158	1.342	0.9642	3.977

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			1.81	2.19
8/31/2016	3.3			
9/1/2016		5.27		
10/26/2016		2.32	2.03	2.67
10/27/2016	2.7			
1/3/2017			1.85	
1/5/2017				3.74
1/6/2017	4.45	5.1		
4/4/2017		5		
4/6/2017	3.1		2.66	2.36
7/12/2017	2.73	2.69	2.1	1.54
10/3/2017			2	3.63
10/4/2017	8.16	4.82		
1/9/2018				2.07
1/10/2018			2.55	
1/11/2018	2.31	4.48		
7/10/2018			3.14	1.63
7/11/2018	3.31	2.69		
8/27/2019		2.97		4.63
8/28/2019	1.91		3.74	
10/9/2019	3.09	2.17	7.23	5.45
Mean	3.506	3.751	2.911	2.991
Std. Dev.	1.77	1.281	1.639	1.319
Upper Lim.	4.601	4.885	3.74	4.168
Lower Lim.	2.267	2.573	1.85	1.814

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.22 (J)					
8/31/2016		<0.3	0.7	<0.3		
9/1/2016					0.25 (J)	<0.3
10/25/2016	<0.3				0.43	0.5
10/26/2016		<0.3	0.91	0.55		
1/4/2017	0.18 (J)	<0.3	0.51			
1/5/2017				0.09 (J)	0.21 (J)	0.22 (J)
4/3/2017						<0.3
4/4/2017	<0.3				0.45	
4/5/2017			0.71			
4/6/2017		<0.3		<0.3		
7/10/2017			0.88			
7/11/2017		<0.3			0.41	0.06 (J)
7/12/2017	0.04 (J)			<0.3		
10/2/2017					<0.3	<0.3
10/3/2017	<0.3	<0.3				
10/4/2017			0.37	<0.3		
1/9/2018					<0.3	<0.3
1/10/2018	<0.3			<0.3		
1/11/2018		<0.3	1.4			
7/9/2018					<0.3	
7/10/2018	<0.3					0.15 (J)
7/11/2018		<0.3	0.62	<0.3		
1/16/2019	<0.3			<0.3	<0.3	
1/17/2019		<0.3	1.2			<0.3
3/26/2019	0.051 (J)			0.052 (J)	0.13 (J)	0.13 (J)
3/27/2019		<0.3	0.036 (J)			
8/27/2019	<0.3	<0.3	0.3	<0.3	<0.3	<0.3
10/8/2019		<0.3		<0.3	<0.3	<0.3
10/9/2019	<0.3		<0.3			
Mean	0.2409	0.3	0.6613	0.2827	0.3067	0.2633
Std. Dev.	0.09932	0	0.3944	0.1223	0.09069	0.1125
Upper Lim.	0.3	0.3	0.9708	0.55	0.3778	0.5
Lower Lim.	0.051	0.3	0.3519	0.09	0.2355	0.13

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			0.07 (J)			0.04 (J)
9/1/2016	0.55	0.68		<0.3	<0.3	
10/25/2016	0.36			<0.3	<0.3	
10/26/2016		0.68	0.62			0.12 (J)
1/4/2017	0.1 (J)			0.04 (J)	<0.3	0.06 (J)
1/5/2017		0.73	0.17 (J)			
4/4/2017			0.08 (J)	0.02 (J)	<0.3	
4/5/2017	0.2 (J)	1.6				
4/6/2017						<0.3
7/11/2017				0.14 (J)		0.03 (J)
7/12/2017	0.04 (J)					
7/13/2017		1.7	0.06 (J)		<0.3	
10/2/2017				<0.3		
10/3/2017	0.86		0.06 (J)		<0.3	
10/4/2017		1.8				0.12 (J)
1/9/2018					<0.3	
1/10/2018	<0.3		<0.3	<0.3		
1/11/2018		1.5				<0.3
7/9/2018				<0.3		
7/10/2018	<0.3		<0.3		<0.3	
7/11/2018		1.8				<0.3
1/16/2019		1.4				
1/17/2019	<0.3				<0.3	
1/18/2019						<0.3
1/21/2019			<0.3	<0.3		
3/25/2019				0.043 (J)		
3/26/2019	0.11 (J)	0.89			0.071 (J)	
3/27/2019						<0.3
7/30/2019			0.083 (J)			
8/27/2019			<0.3			0.1
8/28/2019	<0.3	0.61		<0.3	<0.3	
10/8/2019	<0.3				<0.3	
10/9/2019		<0.3	<0.3	<0.3		<0.3
Mean	0.31	1.141	0.2203	0.2203	0.2809	0.1892
Std. Dev.	0.22	0.5422	0.1669	0.1211	0.06611	0.1189
Upper Lim.	0.55	1.566	0.62	0.3	0.3	0.3
Lower Lim.	0.1	0.7154	0.06	0.04	0.071	0.04

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.04 (J)	0.09 (J)
8/31/2016	0.55			
9/1/2016		<0.3		
10/26/2016		0.05 (J)	0.05 (J)	0.24 (J)
10/27/2016	0.26 (J)			
1/3/2017			0.08 (J)	
1/5/2017				0.11 (J)
1/6/2017	0.25 (J)	0.08 (J)		
4/4/2017		<0.3		
4/6/2017	0.16 (J)		0.006 (J)	0.3
7/12/2017	0.2 (J)	0.38	0.05 (J)	0.15 (J)
10/3/2017			0.11 (J)	0.11 (J)
10/4/2017	0.22 (J)	<0.3		
1/9/2018				<0.3
1/10/2018			<0.3	
1/11/2018	0.98	<0.3		
7/10/2018			0.2 (J)	<0.3
7/11/2018	0.14 (J)	<0.3		
1/16/2019		1.2	<0.3	0.053 (J)
1/18/2019	0.24 (J)			
3/25/2019		0.064 (J)		
3/26/2019			<0.3	0.046 (J)
3/27/2019	0.13 (J)			
8/27/2019		0.031 (J)		0.13 (J)
8/28/2019	0.088 (J)		0.097 (J)	
10/9/2019	0.068 (J)	<0.3	<0.3	<0.3
Mean	0.2738	0.3004	0.1528	0.1774
Std. Dev.	0.2547	0.3097	0.1185	0.1029
Upper Lim.	0.3979	0.38	0.3	0.3
Lower Lim.	0.1129	0.05	0.04	0.053

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.005					
8/31/2016		0.0002 (J)	0.0001 (J)	<0.005		
9/1/2016					<0.005	<0.005
10/25/2016	<0.005				<0.005	<0.005
10/26/2016		0.0001 (J)	0.0001 (J)	<0.005		
1/4/2017	<0.005	0.0002 (J)	<0.005			
1/5/2017				0.0002 (J)	<0.005	<0.005
4/3/2017						0.0003 (J)
4/4/2017	<0.005				0.0001 (J)	
4/5/2017			0.0003 (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	<0.005			0.0005 (J)		
10/2/2017					0.0001 (J)	0.0002 (J)
10/3/2017	<0.005	0.0003 (J)				
10/4/2017			0.0001 (J)	0.0007 (J)		
1/9/2018					<0.005	0.0002 (J)
1/10/2018	0.0001 (J)			0.0009 (J)		
1/11/2018		0.0003 (J)	0.0002 (J)			
7/9/2018					<0.005	
7/10/2018	<0.005					<0.005
7/11/2018			<0.005	0.0015 (J)		
1/16/2019	<0.005			0.00061 (J)	<0.005	
1/17/2019		0.00028 (J)	<0.005			<0.005
3/26/2019	<0.005			<0.005	<0.005	<0.005
3/27/2019		0.00029 (J)	<0.005			
8/27/2019	<0.005	0.00021 (J)	<0.005	0.0001 (J)	0.00051 (J)	0.00033 (J)
10/8/2019		0.00028 (J)		0.00013 (J)	<0.005	0.00012 (J)
10/9/2019	<0.005		6.6E-05 (J)			
Mean	0.004592	0.0002418	0.00218	0.001678	0.003399	0.002604
Std. Dev.	0.001415	6.462E-05	0.00249	0.002038	0.002367	0.002503
Upper Lim.	0.005	0.0003	0.005	0.005	0.005	0.005
Lower Lim.	0.0001	0.0002	6.6E-05	0.00013	0.0001	0.00012

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.0003 (J)
9/1/2016	<0.005	<0.005		<0.005	<0.005	
10/25/2016	0.0002 (J)			0.0001 (J)	<0.005	
10/26/2016		<0.005	<0.005			0.0003 (J)
1/4/2017	0.0001 (J)			<0.005	<0.005	0.0003 (J)
1/5/2017		<0.005	<0.005			
4/4/2017			0.0002 (J)	7E-05 (J)	9E-05 (J)	
4/5/2017	0.0002 (J)	0.0009 (J)				
4/6/2017						0.0003 (J)
7/11/2017				<0.005		0.0002 (J)
7/12/2017	0.0001 (J)					
7/13/2017		<0.005	0.0003 (J)		7E-05 (J)	
10/2/2017				<0.005		
10/3/2017	0.0001 (J)		<0.005		0.0001 (J)	
10/4/2017		0.0001 (J)				0.0008 (J)
1/9/2018					9E-05 (J)	
1/10/2018	0.0002 (J)		8E-05 (J)	0.0002 (J)		
1/11/2018		0.0001 (J)				0.0009 (J)
7/9/2018				<0.005		
7/10/2018	<0.005		<0.005		<0.005	
7/11/2018		<0.005				0.001 (J)
1/16/2019		<0.005				
1/17/2019	<0.005				<0.005	
1/18/2019						0.0012 (J)
1/21/2019			<0.005	<0.005		
3/25/2019				<0.005		
3/26/2019	<0.005	<0.005			<0.005	
3/27/2019						0.00047 (J)
7/30/2019			0.0002 (J)			
8/27/2019			<0.005			0.003 (J)
8/28/2019	0.0001 (J)	<0.005		6.5E-05 (J)	0.00018 (J)	
10/8/2019	0.0001 (J)				0.00016 (J)	
10/9/2019		0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)
Mean	0.001758	0.003437	0.002987	0.002968	0.002557	0.0007575
Std. Dev.	0.002394	0.002317	0.002488	0.002512	0.002551	0.0007821
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.001014
Lower Lim.	0.0001	0.0001	8E-05	7E-05	9E-05	0.000289

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
8/31/2016	0.0007 (J)			
10/26/2016		0.0057	0.0002 (J)	<0.005
10/27/2016	<0.005			
1/3/2017			0.0001 (J)	
1/5/2017				0.0003 (J)
1/6/2017	<0.005	0.0053		
4/4/2017		0.0092		
4/6/2017	0.0001 (J)		0.0003 (J)	0.0002 (J)
7/12/2017	<0.005	0.006	0.0002 (J)	0.0002 (J)
10/3/2017			0.0002 (J)	0.0001 (J)
10/4/2017	9E-05 (J)	0.0057		
1/9/2018				0.0003 (J)
1/10/2018			0.0003 (J)	
1/11/2018	0.0002 (J)	0.0085		
7/10/2018			<0.005	<0.005
7/11/2018	<0.005	0.0029 (J)		
1/16/2019		<0.005	<0.005	<0.005
1/18/2019	<0.005			
3/25/2019		<0.005		
3/26/2019			<0.005	
3/27/2019	<0.005			
8/27/2019		0.001 (J)		0.0011 (J)
8/28/2019	6.1E-05 (J)		0.0011 (J)	
10/9/2019	<0.005	0.00041 (J)	0.0025 (J)	0.00033 (J)
Mean	0.003013	0.004974	0.002075	0.002048
Std. Dev.	0.002461	0.00271	0.002258	0.002355
Upper Lim.	0.005	0.007232	0.005	0.005
Lower Lim.	9E-05	0.002716	0.0001	0.0002

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.03					
8/31/2016		<0.03	<0.03	<0.03		
9/1/2016					<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				<0.03	
4/5/2017			0.0012 (J)			
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	<0.03	0.00094 (J)	<0.03	<0.03	<0.03
10/8/2019		<0.03		<0.03	<0.03	<0.03
10/9/2019	<0.03		0.0011 (J)			
Mean	0.03	0.03	0.01842	0.03	0.03	0.03
Std. Dev.	0	0	0.01495	0	0	0
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.03	0.03	0.00098	0.03	0.03	0.03

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.03			<0.03
9/1/2016	<0.03	0.0066 (J)		<0.03	<0.03	
10/25/2016	<0.03			<0.03	<0.03	
10/26/2016		0.0065 (J)	<0.03			<0.03
1/4/2017	<0.03			<0.03	<0.03	<0.03
1/5/2017		0.0062 (J)	<0.03			
4/4/2017			<0.03	<0.03	<0.03	
4/5/2017	<0.03	0.007 (J)				
4/6/2017						<0.03
7/11/2017				<0.03		<0.03
7/12/2017	<0.03					
7/13/2017		0.0069 (J)	<0.03		<0.03	
10/2/2017				<0.03		
10/3/2017	<0.03		<0.03		<0.03	
10/4/2017		0.0082 (J)				<0.03
1/9/2018					<0.03	
1/10/2018	<0.03		<0.03	<0.03		
1/11/2018		0.0061 (J)				<0.03
7/9/2018				<0.03		
7/10/2018	<0.03		<0.03		<0.03	
7/11/2018		0.0075 (J)				<0.03
7/30/2019			<0.03			
8/27/2019			<0.03			<0.03
8/28/2019	<0.03	0.0041 (J)		<0.03	<0.03	
10/8/2019	<0.03				<0.03	
10/9/2019		0.0046 (J)	<0.03	<0.03		<0.03
Mean	0.03	0.00637	0.03	0.03	0.03	0.03
Std. Dev.	0	0.001237	0	0	0	0
Upper Lim.	0.03	0.007473	0.03	0.03	0.03	0.03
Lower Lim.	0.03	0.005267	0.03	0.03	0.03	0.03

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.0042 (J)	<0.03
9/1/2016		0.0092 (J)		
10/26/2016		0.0046 (J)	<0.03	<0.03
10/27/2016	0.0023 (J)			
1/3/2017			0.0024 (J)	
1/5/2017				<0.03
1/6/2017	0.0021 (J)	0.0042 (J)		
4/4/2017		0.0056 (J)		
4/6/2017	0.0021 (J)		0.0051 (J)	<0.03
7/12/2017	0.0017 (J)	0.0035 (J)	0.0031 (J)	<0.03
10/3/2017			0.0027 (J)	<0.03
10/4/2017	0.0021 (J)	0.0041 (J)		
1/9/2018				<0.03
1/10/2018			0.0041 (J)	
1/11/2018	0.0022 (J)	0.0052 (J)		
7/10/2018			0.005 (J)	<0.03
7/11/2018	0.0019 (J)	0.0039 (J)		
8/27/2019		0.013 (J)		<0.03
8/28/2019	0.0018 (J)		<0.03	
10/9/2019	0.0018 (J)	0.013 (J)		
Mean	0.002	0.00663	0.009622	0.03
Std. Dev.	0.0002062	0.00372	0.01159	0
Upper Lim.	0.002199	0.013	0.03	0.03
Lower Lim.	0.001801	0.0039	0.0024	0.03

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.0005	<0.0005
8/31/2016	<0.0005			
9/1/2016		<0.0005		
10/26/2016		<0.0005	<0.0005	<0.0005
10/27/2016	<0.0005			
1/3/2017			<0.0005	
1/5/2017				<0.0005
1/6/2017	<0.0005	<0.0005		
4/4/2017		<0.0005		
4/6/2017	<0.0005		<0.0005	<0.0005
7/12/2017	<0.0005	<0.0005	<0.0005	<0.0005
10/3/2017			<0.0005	<0.0005
10/4/2017	5E-05 (J)	<0.0005		
1/9/2018				<0.0005
1/10/2018			<0.0005	
1/11/2018	<0.0005	<0.0005		
7/10/2018			<0.0005	<0.0005
7/11/2018	<0.0005	<0.0005		
1/16/2019		4.9E-05 (J)	<0.0005	4.3E-05 (J)
1/18/2019	<0.0005			
8/27/2019		<0.0005		<0.0005
8/28/2019	<0.0005		<0.0005	
10/9/2019			<0.0005	
Mean	0.000455	0.0004549	0.0005	0.0004543
Std. Dev.	0.0001423	0.0001426	0	0.0001445
Upper Lim.	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0005	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.175					
8/31/2016		<0.01	<0.01	<0.01		
9/1/2016					0.0027 (J)	0.132
10/25/2016	0.242				0.0028 (J)	0.117
10/26/2016		<0.01	<0.01	<0.01		
1/4/2017	0.167	<0.01	<0.01			
1/5/2017				<0.01	0.0022 (J)	0.109
4/3/2017						0.0994
4/4/2017	0.172				0.0022 (J)	
4/5/2017			<0.01			
4/6/2017		<0.01		<0.01		
7/10/2017			<0.01			
7/11/2017		<0.01			0.0024 (J)	0.0938
7/12/2017	0.182			<0.01		
10/2/2017					0.0025 (J)	0.103
10/3/2017	0.162	<0.01				
10/4/2017			<0.01	<0.01		
1/9/2018					0.0038 (J)	0.106
1/10/2018	0.117			<0.01		
1/11/2018		0.0018 (J)	<0.01			
7/10/2018	0.11					0.088
7/11/2018		<0.01	<0.01	<0.01		
8/27/2019	0.06	<0.01	<0.01	<0.01	0.028	0.095
10/8/2019		<0.01		<0.01	0.034	0.091
10/9/2019	0.06		<0.01			
Mean	0.1447	0.00918	0.01	0.01	0.008956	0.1034
Std. Dev.	0.05739	0.002593	0	0	0.0126	0.01338
Upper Lim.	0.1959	0.01	0.01	0.01	0.034	0.1154
Lower Lim.	0.0935	0.01	0.01	0.01	0.0022	0.09148

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			<0.01
9/1/2016	0.08	<0.01		0.296	0.0686	
10/25/2016	0.08			0.395	0.0018 (J)	
10/26/2016		<0.01	<0.01			<0.01
1/4/2017	0.0786			0.229	0.0222	<0.01
1/5/2017		<0.01	<0.01			
4/4/2017			<0.01	0.147	0.0476	
4/5/2017	0.113	<0.01				
4/6/2017						<0.01
7/11/2017				0.136		<0.01
7/12/2017	0.178					
7/13/2017		<0.01	<0.01		0.0105	
10/2/2017				0.13		
10/3/2017	0.201		<0.01		0.0031 (J)	
10/4/2017		<0.01				<0.01
1/9/2018					0.09	
1/10/2018	0.161		<0.01	0.229		
1/11/2018		<0.01				<0.01
7/9/2018				0.13		
7/10/2018	0.14		<0.01		0.047	
7/11/2018		<0.01				<0.01
7/30/2019			<0.01			
8/27/2019			<0.01			<0.01
8/28/2019	0.22	0.004 (J)		0.11	0.07	
10/8/2019	0.2				0.078	
10/9/2019		0.0036 (J)	<0.01	0.071		<0.01
Mean	0.1452	0.00876	0.01	0.1873	0.04388	0.01
Std. Dev.	0.05481	0.002616	0	0.09931	0.0327	0
Upper Lim.	0.1941	0.01	0.01	0.2759	0.07306	0.01
Lower Lim.	0.09626	0.004	0.01	0.0987	0.0147	0.01

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	<0.01
8/31/2016	<0.01			
9/1/2016		0.035		
10/26/2016		0.0267	<0.01	<0.01
10/27/2016	<0.01			
1/3/2017			<0.01	
1/5/2017				<0.01
1/6/2017	<0.01	0.0278		
4/4/2017		0.0265		
4/6/2017	<0.01		<0.01	<0.01
7/12/2017	<0.01	0.0209	<0.01	<0.01
10/3/2017			<0.01	<0.01
10/4/2017	<0.01	0.0181		
1/9/2018				<0.01
1/10/2018			<0.01	
1/11/2018	<0.01	0.0237		
7/10/2018			<0.01	<0.01
7/11/2018	<0.01	0.024		
8/27/2019		0.1		0.0026 (J)
8/28/2019	<0.01		0.0012 (J)	
10/9/2019	<0.01	0.1		
Mean	0.01	0.04027	0.009022	0.009178
Std. Dev.	0	0.0318	0.002933	0.002467
Upper Lim.	0.01	0.1	0.01	0.01
Lower Lim.	0.01	0.0209	0.0012	0.0026

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.002 (J)					
8/31/2016		0.0084 (J)	0.0019 (J)	<0.01		
9/1/2016					0.0056 (J)	<0.01
10/25/2016	0.0022 (J)				0.0023 (J)	<0.01
10/26/2016		0.0052 (J)	0.002 (J)	<0.01		
1/4/2017	0.0016 (J)	0.0062 (J)	<0.01			
1/5/2017				<0.01	0.0038 (J)	<0.01
4/3/2017						<0.01
4/4/2017	0.0052 (J)				0.0064 (J)	
4/5/2017			<0.01			
4/6/2017		0.0195		<0.01		
7/10/2017			<0.01			
7/11/2017		<0.01			0.0044 (J)	<0.01
7/12/2017	0.0024 (J)			<0.01		
10/2/2017					0.004 (J)	<0.01
10/3/2017	<0.01	0.0079 (J)				
10/4/2017			<0.01	<0.01		
1/9/2018					0.0019 (J)	0.0019 (J)
1/10/2018	0.0018 (J)			<0.01		
1/11/2018		0.0054 (J)	<0.01			
7/9/2018					0.0029 (J)	
7/10/2018	0.0026 (J)					0.0086 (J)
7/11/2018		0.0022 (J)	<0.01	<0.01		
1/16/2019	0.0018 (J)			<0.01	0.0016 (J)	
1/17/2019		<0.01	<0.01			0.0029 (J)
3/26/2019	0.0023 (J)			<0.01	0.0022 (J)	0.0074 (J)
3/27/2019		0.01 (J)	<0.01			
8/27/2019	0.0016 (J)	<0.01	<0.01	<0.01	0.0035 (J)	0.0092 (J)
10/8/2019		<0.01		<0.01	0.0026 (J)	0.014
10/9/2019	0.0024 (J)		<0.01			
Mean	0.002992	0.008733	0.008658	0.01	0.003433	0.008667
Std. Dev.	0.002405	0.004237	0.003134	0	0.001489	0.003304
Upper Lim.	0.0052	0.01	0.01	0.01	0.004602	0.014
Lower Lim.	0.0016	0.0052	0.002	0.01	0.002265	0.0029

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			0.0014 (J)
9/1/2016	0.0052 (J)	0.0012 (J)		<0.01	0.0297	
10/25/2016	0.0085 (J)			0.0014 (J)	0.0095 (J)	
10/26/2016		0.0013 (J)	0.0035 (J)			0.001 (J)
1/4/2017	0.0048 (J)			0.0014 (J)	0.022	<0.01
1/5/2017		0.0012 (J)	<0.01			
4/4/2017			<0.01	<0.01	0.0236	
4/5/2017	0.0068 (J)	<0.01				
4/6/2017						<0.01
7/11/2017				<0.01		<0.01
7/12/2017	0.0048 (J)					
7/13/2017		0.0018 (J)	<0.01		0.013	
10/2/2017				<0.01		
10/3/2017	0.0051 (J)		<0.01		0.01 (J)	
10/4/2017		0.0042 (J)				0.0023 (J)
1/9/2018					0.0162	
1/10/2018	0.0018 (J)		<0.01	<0.01		
1/11/2018		<0.01				<0.01
7/9/2018				<0.01		
7/10/2018	0.0045 (J)		<0.01		0.016	
7/11/2018		0.0016 (J)				<0.01
1/16/2019		<0.01				
1/17/2019	0.0031 (J)				0.011	
1/18/2019						<0.01
1/21/2019			<0.01	0.0014 (J)		
3/25/2019				<0.01		
3/26/2019	0.0033 (J)	<0.01			0.022	
3/27/2019						<0.01
7/30/2019			<0.01			
8/27/2019			<0.01			<0.01
8/28/2019	0.004 (J)	<0.01		0.0014 (J)	0.019	
10/8/2019	0.0023 (J)				0.019	
10/9/2019		<0.01	<0.01	<0.01		<0.01
Mean	0.004517	0.005942	0.009458	0.007133	0.01758	0.007892
Std. Dev.	0.001861	0.00431	0.001876	0.004234	0.006162	0.003825
Upper Lim.	0.005977	0.01	0.01	0.01	0.02242	0.01
Lower Lim.	0.003056	0.0012	0.0035	0.0014	0.01275	0.0014

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	<0.01
8/31/2016	<0.01			
9/1/2016		0.0067 (J)		
10/26/2016		0.0042 (J)	<0.01	<0.01
10/27/2016	<0.01			
1/3/2017			<0.01	
1/5/2017				0.0014 (J)
1/6/2017	<0.01	0.0042 (J)		
4/4/2017		0.0043 (J)		
4/6/2017	<0.01		<0.01	<0.01
7/12/2017	<0.01	0.0033 (J)	<0.01	<0.01
10/3/2017			<0.01	<0.01
10/4/2017	<0.01	0.0038 (J)		
1/9/2018				<0.01
1/10/2018			<0.01	
1/11/2018	<0.01	0.0029 (J)		
7/10/2018			0.0018 (J)	0.0016 (J)
7/11/2018	<0.01	0.0015 (J)		
1/16/2019		<0.01	<0.01	
1/18/2019	<0.01			
3/25/2019		<0.01		
3/26/2019			<0.01	0.05 (J)
3/27/2019	<0.01			
8/27/2019		<0.01		0.0033 (J)
8/28/2019	<0.01		0.0033 (J)	
10/9/2019	<0.01	<0.01	0.0073 (J)	
Mean	0.01	0.005908	0.008533	0.01163
Std. Dev.	0	0.003244	0.002917	0.014
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.0029	0.0033	0.0016

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001	<0.001		
9/1/2016					<0.001	<0.001
10/25/2016	<0.001				<0.001	<0.001
10/26/2016		<0.001	0.0003 (J)	<0.001		
1/4/2017	<0.001	<0.001	<0.001			
1/5/2017				<0.001	<0.001	<0.001
4/3/2017						<0.001
4/4/2017	5E-05 (J)				7E-05 (J)	
4/5/2017			0.0002 (J)			
4/6/2017		6E-05 (J)		<0.001		
7/10/2017			0.0002 (J)			
7/11/2017		<0.001			6E-05 (J)	<0.001
7/12/2017	<0.001			<0.001		
10/2/2017					<0.001	<0.001
10/3/2017	<0.001	7E-05 (J)				
10/4/2017			0.0002 (J)	<0.001		
1/9/2018					<0.001	<0.001
1/10/2018	<0.001			<0.001		
1/11/2018		0.0001 (J)	0.0002 (J)			
7/9/2018					<0.001	
7/10/2018	<0.001					<0.001
7/11/2018		<0.001	<0.001	<0.001		
8/27/2019	<0.001	<0.001	0.00011 (J)	<0.001	<0.001	<0.001
10/8/2019		9.8E-05 (J)		<0.001	<0.001	<0.001
10/9/2019	5.4E-05 (J)		0.00014 (J)			
Mean	0.0008104	0.0006328	0.000435	0.001	0.000813	0.001
Std. Dev.	0.0003997	0.0004742	0.0003929	0	0.0003942	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.4E-05	7E-05	0.00014	0.001	7E-05	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.001			<0.001
9/1/2016	<0.001	<0.001		<0.001	<0.001	
10/25/2016	<0.001			<0.001	<0.001	
10/26/2016		<0.001	<0.001			<0.001
1/4/2017	<0.001			<0.001	<0.001	<0.001
1/5/2017		<0.001	<0.001			
4/4/2017			<0.001	<0.001	5E-05 (J)	
4/5/2017	6E-05 (J)	0.0001 (J)				
4/6/2017						<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		<0.001	
10/4/2017		0.0001 (J)				0.0001 (J)
1/9/2018					<0.001	
1/10/2018	5E-05 (J)		<0.001	<0.001		
1/11/2018		0.0001 (J)				6E-05 (J)
7/9/2018				<0.001		
7/10/2018	<0.001		<0.001		<0.001	
7/11/2018		<0.001				<0.001
7/30/2019			0.00011 (J)			
8/27/2019			<0.001			8.6E-05 (J)
8/28/2019	<0.001	6.6E-05 (J)		<0.001	<0.001	
10/8/2019	<0.001				<0.001	
10/9/2019		7.6E-05 (J)	<0.001	<0.001		<0.001
Mean	0.000811	0.0005442	0.0009191	0.001	0.000905	0.0007246
Std. Dev.	0.0003985	0.0004806	0.0002683	0	0.0003004	0.0004435
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6E-05	7.6E-05	0.001	0.001	0.001	8.6E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.001	<0.001
8/31/2016	<0.001			
9/1/2016		<0.001		
10/26/2016		<0.001	<0.001	<0.001
10/27/2016	<0.001			
1/3/2017			<0.001	
1/5/2017				<0.001
1/6/2017	<0.001	<0.001		
4/4/2017		7E-05 (J)		
4/6/2017	<0.001		<0.001	<0.001
7/12/2017	<0.001	<0.001	<0.001	<0.001
10/3/2017			<0.001	<0.001
10/4/2017	<0.001	<0.001		
1/9/2018				<0.001
1/10/2018			<0.001	
1/11/2018	<0.001	7E-05 (J)		
7/10/2018			<0.001	<0.001
7/11/2018	<0.001	<0.001		
8/27/2019		<0.001		<0.001
8/28/2019	<0.001		5.7E-05 (J)	
10/9/2019	<0.001	<0.001	0.00031 (J)	
Mean	0.001	0.000814	0.0008367	0.001
Std. Dev.	0	0.0003921	0.0003494	0
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.001	7E-05	0.00031	0.001

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
10/25/2016					0.0206	<0.01
1/4/2017	<0.01	<0.01	<0.01			
1/5/2017				<0.01	0.0172	<0.01
4/3/2017						0.002 (J)
4/4/2017	0.0061 (J)				0.0235	
4/5/2017			0.0039 (J)			
4/6/2017		0.0025 (J)		<0.01		
7/10/2017			0.0062 (J)			
7/11/2017		0.0027 (J)			0.0136	0.0022 (J)
7/12/2017	0.0067 (J)			0.0016 (J)		
10/2/2017					0.0175	0.0022 (J)
1/9/2018					0.0103	0.0021 (J)
1/10/2018	0.0056 (J)			0.0019 (J)		
1/11/2018		0.0019 (J)	0.0025 (J)			
7/9/2018					0.0078 (J)	
7/10/2018	0.0056 (J)					0.0025 (J)
7/11/2018		0.0021 (J)	0.0059 (J)	0.0097 (J)		
1/16/2019	0.0043 (J)			<0.01	0.0043 (J)	
1/17/2019		0.0021 (J)	<0.01			<0.01
3/26/2019	0.0051 (J)			0.0029 (J)	0.0063 (J)	0.0026 (J)
3/27/2019		0.0023 (J)	0.0049 (J)			
10/8/2019		<0.01		<0.01	<0.01	<0.01
10/9/2019	<0.01		0.0021 (J)			
Mean	0.006675	0.0042	0.005687	0.007012	0.01311	0.00536
Std. Dev.	0.002167	0.003588	0.003032	0.004058	0.006412	0.003997
Upper Lim.	0.01	0.01	0.01014	0.01	0.01883	0.01
Lower Lim.	0.0043	0.0019	0.002206	0.0016	0.007389	0.0021

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
10/25/2016	<0.01			<0.01		
1/4/2017	<0.01			<0.01	<0.01	<0.01
1/5/2017		<0.01	<0.01			
4/4/2017			<0.01	0.0024 (J)	0.003 (J)	
4/5/2017	0.0033 (J)	0.0029 (J)				
4/6/2017						<0.01
7/11/2017				0.003 (J)		0.0016 (J)
7/12/2017	0.0037 (J)					
7/13/2017		0.0037 (J)	<0.01		0.0019 (J)	
10/2/2017				0.0028 (J)		
10/3/2017	0.0036 (J)					
1/9/2018					0.0046 (J)	
1/10/2018	0.0029 (J)		<0.01	0.0026 (J)		
1/11/2018		0.0026 (J)				0.0012 (J)
7/9/2018				<0.01		
7/10/2018	0.0025 (J)		<0.01		0.0031 (J)	
7/11/2018		0.0032 (J)				0.0025 (J)
1/16/2019		<0.01				
1/17/2019	0.0021 (J)				0.0022 (J)	
1/18/2019						<0.01
1/21/2019			0.0024 (J)	0.0031 (J)		
3/25/2019				0.0024 (J)		
3/26/2019	0.0038 (J)	0.0024 (J)			0.0041 (J)	
3/27/2019						0.002 (J)
7/30/2019			<0.01			
10/8/2019	<0.01				<0.01	
10/9/2019		<0.01	<0.01	<0.01		<0.01
Mean	0.00519	0.0056	0.00905	0.00563	0.004862	0.005912
Std. Dev.	0.003361	0.003664	0.002687	0.003768	0.003292	0.004385
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0025	0.0024	0.0024	0.0024	0.0019	0.0012

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
1/3/2017			<0.01	
1/5/2017				0.0077 (J)
1/6/2017	<0.01	0.0341		
4/4/2017		0.0371		
4/6/2017	<0.01		0.0063 (J)	0.0069 (J)
7/12/2017	0.0013 (J)	0.0399	0.0064 (J)	0.0098 (J)
1/9/2018				0.0086 (J)
1/10/2018			0.0077 (J)	
1/11/2018	<0.01	0.0327		
7/10/2018			0.016	0.0098 (J)
7/11/2018	<0.01	0.02		
1/16/2019		0.0022 (J)	0.0033 (J)	0.077
1/18/2019	<0.01			
3/25/2019		0.004 (J)		
3/26/2019			0.0058 (J)	0.086
3/27/2019	<0.01			
10/9/2019	<0.01	<0.01	0.033 (J)	0.018 (J)
Mean	0.008912	0.0225	0.01106	0.02798
Std. Dev.	0.003076	0.01545	0.009639	0.0333
Upper Lim.	0.01	0.03888	0.01911	0.086
Lower Lim.	0.0013	0.006122	0.003636	0.0069

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
10/25/2016					<0.01	<0.01
1/4/2017	<0.01	<0.01	0.0025 (J)			
1/5/2017				0.0021 (J)	<0.01	<0.01
4/3/2017						<0.01
4/4/2017	<0.01				<0.01	
4/5/2017			0.0026 (J)			
4/6/2017		0.004 (J)		0.0027 (J)		
7/10/2017			0.0023 (J)			
7/11/2017		<0.01			<0.01	<0.01
7/12/2017	<0.01			0.0043 (J)		
10/2/2017					0.0026 (J)	<0.01
1/9/2018					0.0018 (J)	<0.01
1/10/2018	0.0014 (J)			0.0021 (J)		
1/11/2018		0.0018 (J)	0.0031 (J)			
7/9/2018					<0.01	
7/10/2018	0.0021 (J)					<0.01
7/11/2018		<0.01	0.0036 (J)	0.0039 (J)		
1/16/2019	<0.01			0.047	<0.01	
1/17/2019		<0.01	0.0032 (J)			<0.01
3/26/2019	<0.01			0.03	<0.01	<0.01
3/27/2019		<0.01	0.0031 (J)			
10/8/2019		0.0061 (J)		0.053	0.0052 (J)	0.0051 (J)
10/9/2019	0.0057 (J)		0.0057 (J)			
Mean	0.0074	0.007737	0.003263	0.01814	0.00796	0.00951
Std. Dev.	0.003794	0.003327	0.001073	0.02183	0.00339	0.00155
Upper Lim.	0.01	0.01	0.004236	0.053	0.01	0.01
Lower Lim.	0.0014	0.0018	0.002327	0.0021	0.0026	0.01

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
10/25/2016	<0.01			<0.01		
1/4/2017	0.0025 (J)			<0.01	<0.01	0.006 (J)
1/5/2017		0.016	<0.01			
4/4/2017			0.0015 (J)	<0.01	0.0015 (J)	
4/5/2017	0.0025 (J)	0.0175				
4/6/2017						0.0031 (J)
7/11/2017				<0.01		0.0029 (J)
7/12/2017	0.002 (J)					
7/13/2017		0.0126	0.0014 (J)		0.002 (J)	
10/2/2017				<0.01		
10/3/2017	<0.01					
1/9/2018					0.0016 (J)	
1/10/2018	0.0016 (J)		<0.01	0.0034 (J)		
1/11/2018		0.012				0.0106
7/9/2018				<0.01		
7/10/2018	0.0031 (J)		<0.01		<0.01	
7/11/2018		0.011				0.0057 (J)
1/16/2019		0.0094 (J)				
1/17/2019	<0.01				<0.01	
1/18/2019						0.0024 (J)
1/21/2019			<0.01	<0.01		
3/25/2019				<0.01		
3/26/2019	<0.01	0.0057 (J)			<0.01	
3/27/2019						<0.01
7/30/2019			0.0067 (J)			
10/8/2019	0.01				0.0071 (J)	
10/9/2019		0.011	0.005 (J)	0.0049 (J)		0.0079 (J)
Mean	0.00617	0.0119	0.006825	0.00883	0.006525	0.006075
Std. Dev.	0.004055	0.003684	0.003807	0.002492	0.004116	0.003203
Upper Lim.	0.01	0.0158	0.01	0.01	0.01	0.00947
Lower Lim.	0.002	0.007996	0.0014	0.0049	0.0015	0.00268

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 3/27/2020 6:17 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
1/3/2017			<0.01	
1/5/2017				<0.01
1/6/2017	0.0026 (J)	0.0104		
4/4/2017		0.0132		
4/6/2017	0.0047 (J)		0.0023 (J)	0.0032 (J)
7/12/2017	0.003 (J)	0.0046 (J)	<0.01	0.002 (J)
1/9/2018				0.0036 (J)
1/10/2018			0.0022 (J)	
1/11/2018	0.0046 (J)	0.0095 (J)		
7/10/2018			<0.01	0.0055 (J)
7/11/2018	0.0033 (J)	0.0028 (J)		
1/16/2019		0.0052 (J)	<0.01	
1/18/2019	0.0025 (J)			
3/25/2019		0.0078 (J)		
3/26/2019			<0.01	
3/27/2019	0.0026 (J)			
10/9/2019	0.0054 (J)	0.0064 (J)	0.0081 (J)	0.016 (J)
Mean	0.003588	0.007488	0.007825	0.006717
Std. Dev.	0.001141	0.003422	0.003503	0.005344
Upper Lim.	0.004797	0.01112	0.01	0.01583
Lower Lim.	0.002378	0.00386	0.0022	-0.001041

Confidence Interval Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWC-15	0.1181	0.05908	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08515	0.0587	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3917	0.277	0.0287	Yes	12	0	No	0.01	Param.

Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00046	0.006	No	12	58.33	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00045	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	9	100	No	0.002	NP (NDs)
Arsenic (mg/L)	GWC-1	0.003136	0.00173	0.0287	No	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0008	0.0287	No	12	75	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002896	0.001769	0.0287	No	12	8.333	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-15	0.1181	0.05908	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08515	0.0587	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.00082	0.0287	No	12	33.33	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.0006	0.0287	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3917	0.277	0.0287	Yes	12	0	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005305	0.002777	0.0287	No	12	33.33	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	12	41.67	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.005	0.0287	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003151	0.001474	0.0287	No	12	8.333	No	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.0053	0.0009	0.0287	No	12	25	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	GWB-6R	0.004022	0.001096	0.0287	No	11	18.18	No	0.01	Param.
Barium (mg/L)	GWC-1	0.05777	0.05076	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-11	0.118	0.05167	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-12	0.01857	0.01624	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-13	0.02425	0.0185	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0245	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.04982	0.04008	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-16	0.118	0.04738	2	No	10	0	No	0.01	Param.
Barium (mg/L)	GWC-17	0.1222	0.037	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.05451	0.04865	2	No	11	0	No	0.01	Param.
Barium (mg/L)	GWC-20	0.1169	0.07591	2	No	12	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-21	0.07596	0.04659	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-22	0.1088	0.06162	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2903	0.203	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09795	0.07548	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1793	0.0849	2	No	12	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	12	0	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)

Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GWC-12	0.0009541	0.0005339	0.004	No	10	0	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	10	90	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	10	70	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	10	30	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-17	0.003346	0.001654	0.004	No	10	0	No	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.0003	0.004	No	11	81.82	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	10	100	No	0.011	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	10	40	No	0.011	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	10	0	No	0.011	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	10	40	No	0.011	NP (normality)
Beryllium (mg/L)	GWB-5R	0.0002798	0.0001104	0.004	No	9	0	No	0.01	Param.
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	9	100	No	0.002	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	10	80	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007567	0.0001406	0.005	No	10	10	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	10	40	No	0.011	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	10	30	No	0.011	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	10	100	No	0.011	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	10	60	No	0.011	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	9	100	No	0.002	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	9	100	No	0.002	NP (NDs)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	12	0	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	12	16.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	12	50	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.0006	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	12	33.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.0006	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	12	50	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.0009	0.1	No	12	41.67	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01097	0.004078	0.1	No	12	0	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	12	25	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWB-6R	0.017	0.0014	0.1	No	12	0	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	10	90	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001506	0.0009741	0.0102	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)

Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	10	90	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-17	0.00718	0.00374	0.0102	No	10	0	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	11	63.64	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	10	100	No	0.011	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	10	50	No	0.011	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	10	10	No	0.011	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.002	0.0102	No	10	60	No	0.011	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.00038	0.0102	No	9	88.89	No	0.002	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.51	1.546	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	5.92	1.761	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.306	1.956	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.412	0.6307	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.337	0.7614	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.808	0.8966	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.064	1.607	13.22	No	10	0	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.574	2.696	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	0.9782	0.5158	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	2.946	1.342	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.867	0.9642	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.157	3.977	13.22	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.601	2.267	13.22	No	10	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	4.885	2.573	13.22	No	10	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.74	1.85	13.22	No	10	0	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.168	1.814	13.22	No	10	0	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	12	100	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9708	0.3519	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	12	75	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-14	0.3778	0.2355	4	No	12	50	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	12	41.67	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.566	0.7154	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.06	4	No	12	41.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	12	91.67	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	12	50	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3979	0.1129	4	No	12	0	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	12	50	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	12	25	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	GWC-1	0.005	0.0001	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.0003	0.0002	0.015	No	11	0	No	0.006	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000066	0.015	No	12	41.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00013	0.015	No	12	25	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	GWC-14	0.005	0.0001	0.015	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.015	No	12	50	No	0.01	NP (normality)

Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GWC-16	0.005	0.0001	0.015	No	12	33.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.015	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.00008	0.015	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.00007	0.015	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.015	No	12	50	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001014	0.000289	0.015	No	12	0	ln(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.00009	0.015	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.007232	0.002716	0.015	No	11	18.18	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0001	0.015	No	12	33.33	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.015	No	11	36.36	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00098	0.04	No	10	60	No	0.011	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-17	0.007473	0.005267	0.04	No	10	0	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.04	No	11	100	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-9	0.002199	0.001801	0.04	No	9	0	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.04	No	10	0	No	0.011	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0024	0.04	No	9	22.22	No	0.002	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.04	No	9	100	No	0.002	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	100	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	100	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	90	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1959	0.0935	0.1	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.1	No	10	90	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.034	0.0022	0.1	No	9	0	No	0.002	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1154	0.09148	0.1	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.1941	0.09626	0.1	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.004	0.1	No	10	80	No	0.011	NP (NDs)

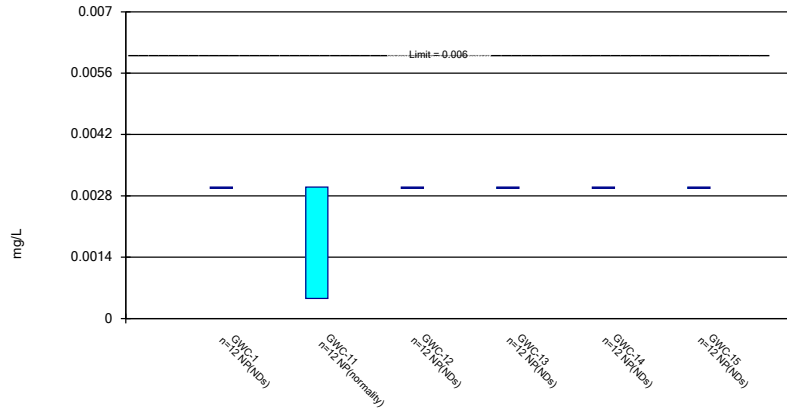
Confidence Interval All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 3/19/2020, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.1	No	11	100	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2759	0.0987	0.1	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.07306	0.0147	0.1	No	10	0	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.1	No	10	100	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.1	No	10	0	No	0.011	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.0012	0.1	No	9	88.89	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.0026	0.1	No	9	88.89	No	0.002	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	12	8.333	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.002	0.05	No	12	83.33	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004602	0.002265	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	12	50	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.005977	0.003056	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	12	50	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	12	66.67	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.02242	0.01275	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0014	0.05	No	12	75	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	12	33.33	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0033	0.05	No	12	75	No	0.01	NP (normality)
Selenium (mg/L)	GWB-6R	0.01	0.0016	0.05	No	10	60	No	0.011	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	10	60	No	0.011	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00014	0.002	No	10	30	No	0.011	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000076	0.002	No	10	50	No	0.011	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	10	90	No	0.011	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000086	0.002	No	10	70	No	0.011	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	10	100	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	10	80	No	0.011	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	9	100	No	0.002	NP (NDs)

Non-Parametric Confidence Interval

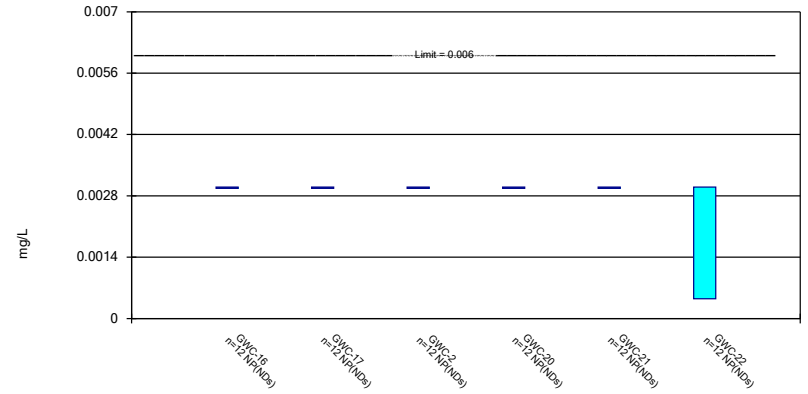
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

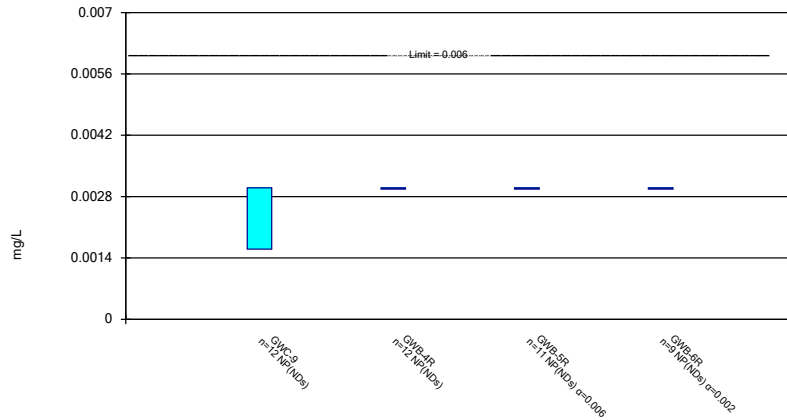
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

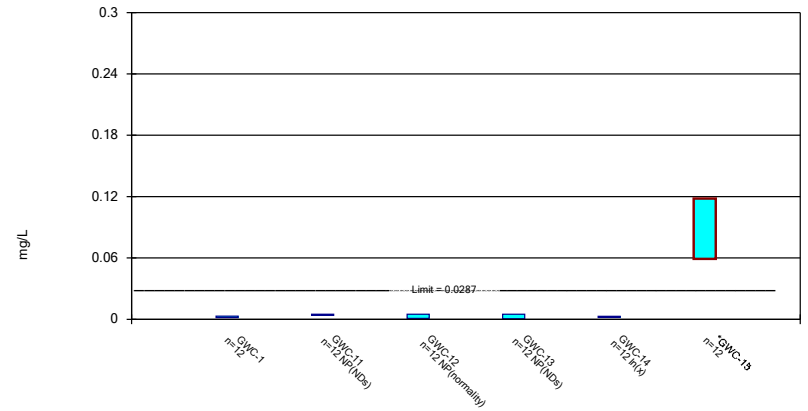
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

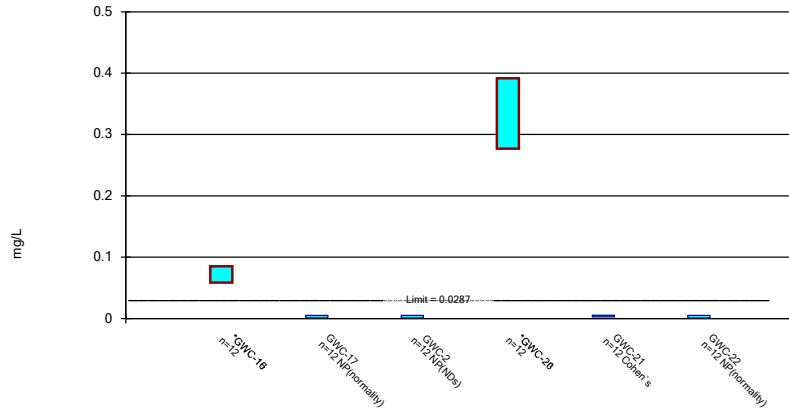
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

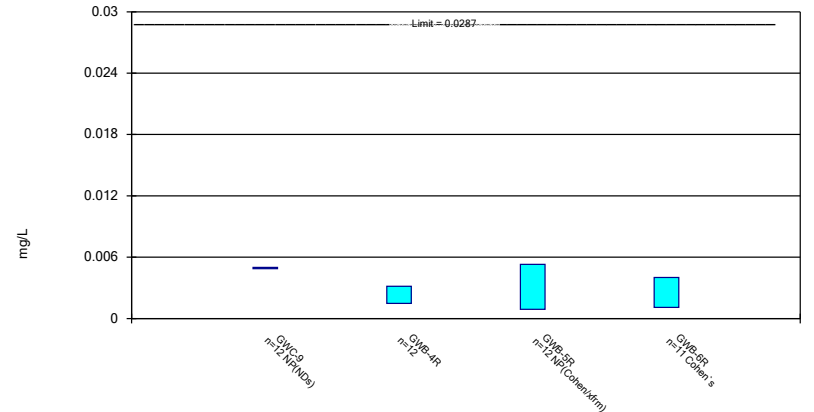
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

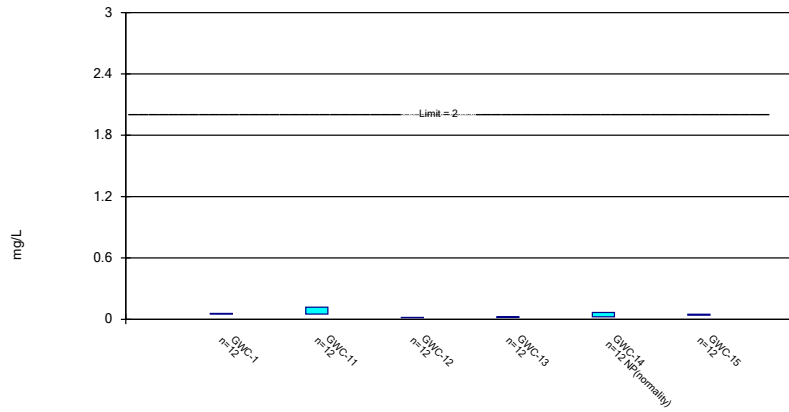
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Constituent: Arsenic Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

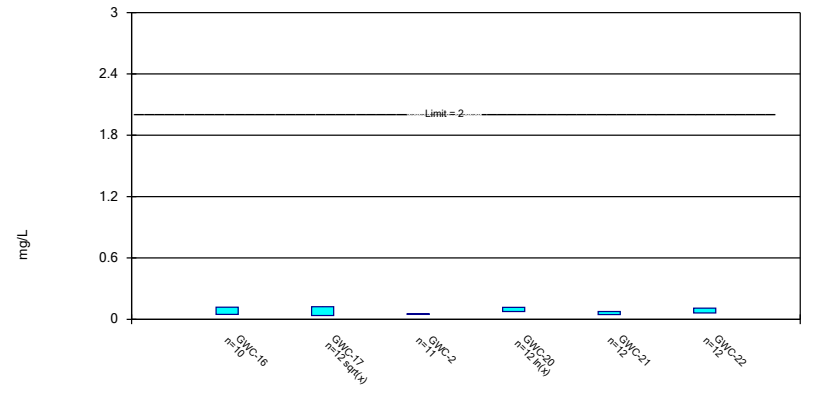
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Constituent: Barium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

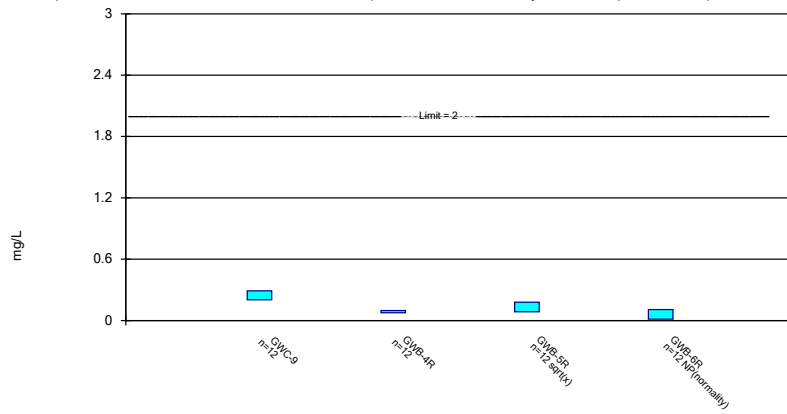
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

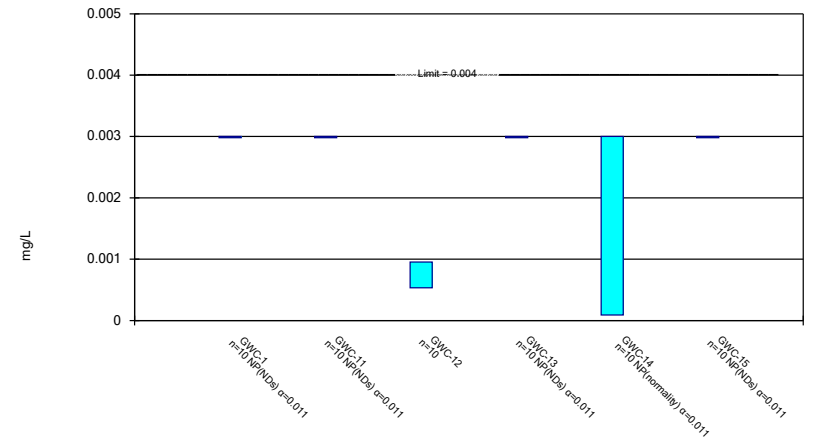
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Constituent: Barium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

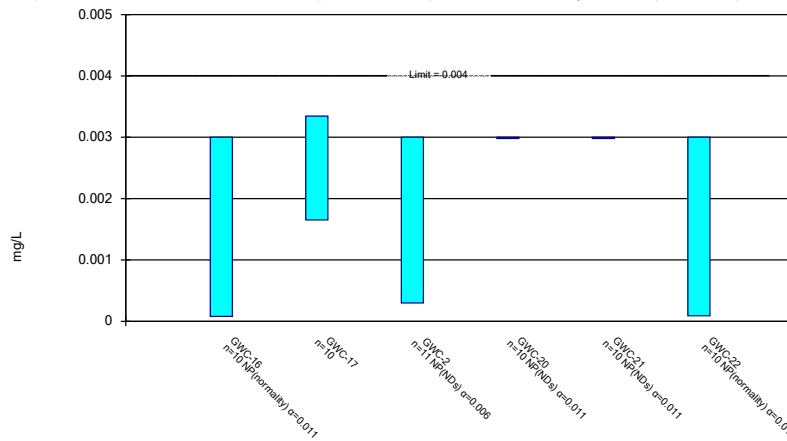
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

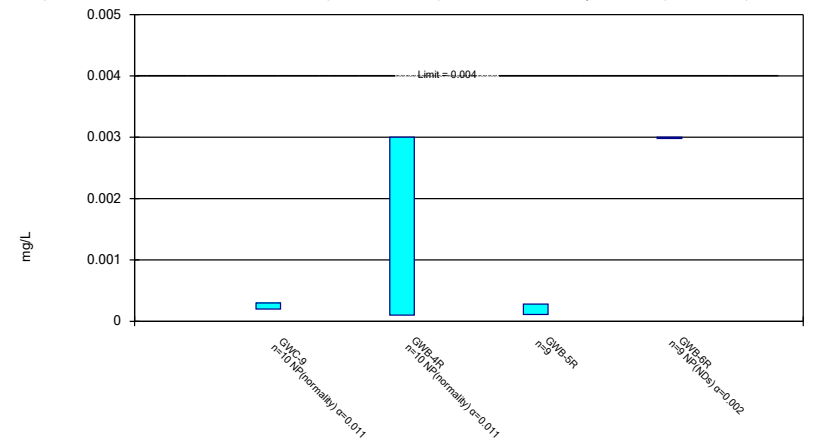
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

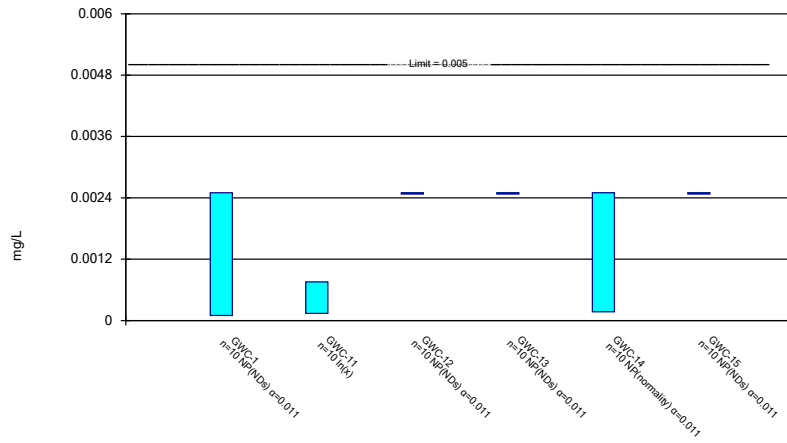
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Constituent: Beryllium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

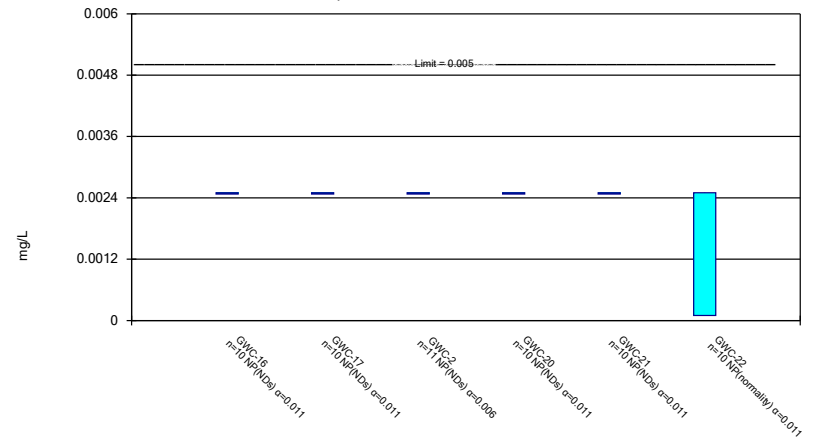
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

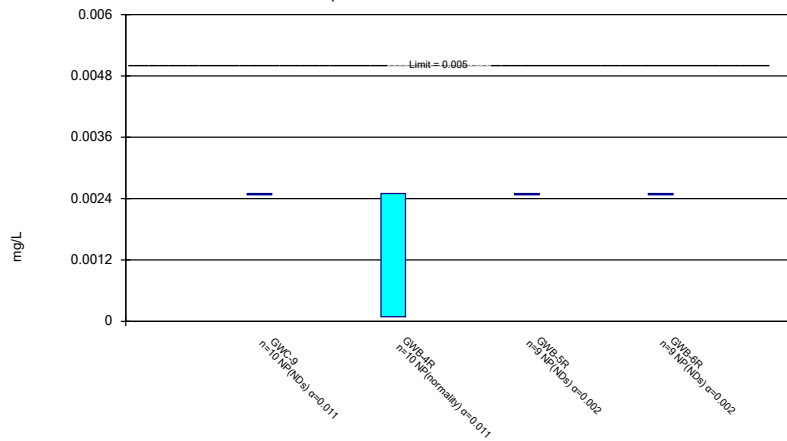
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

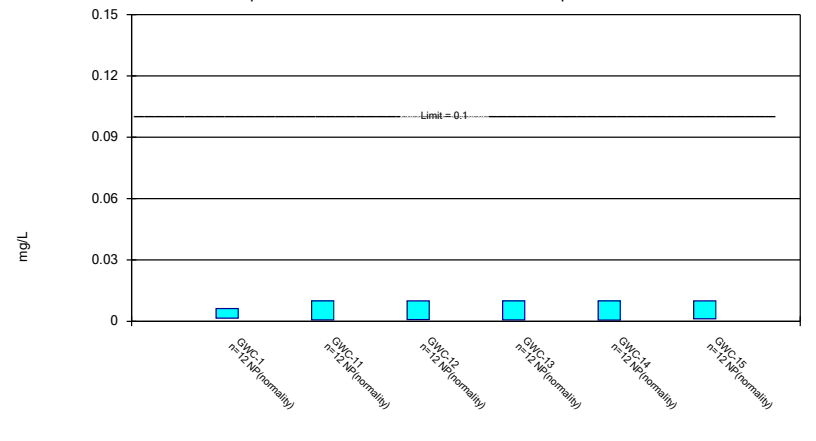
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

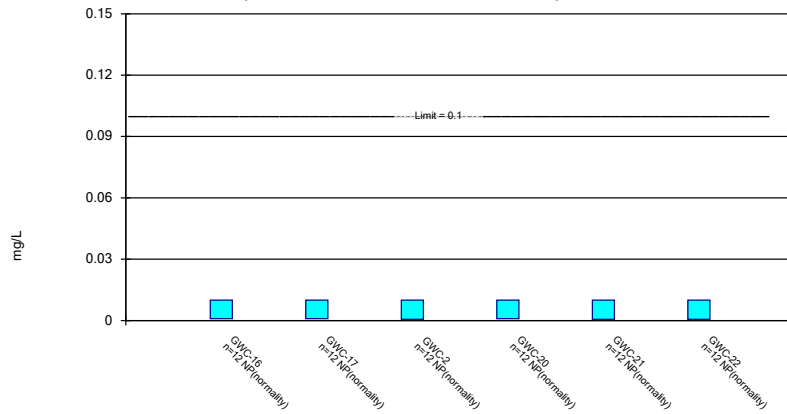
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

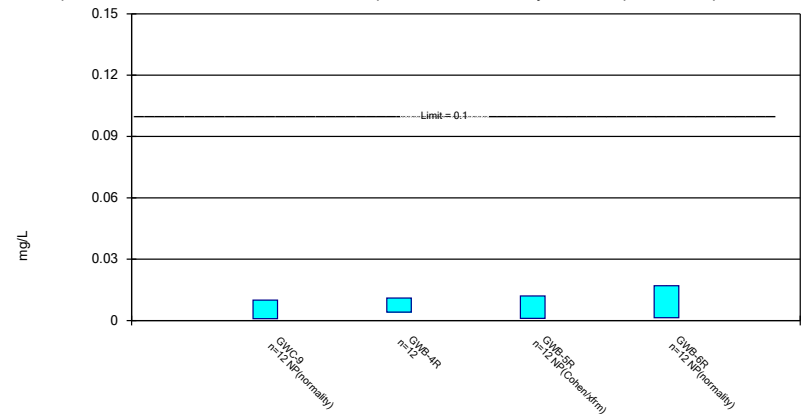
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

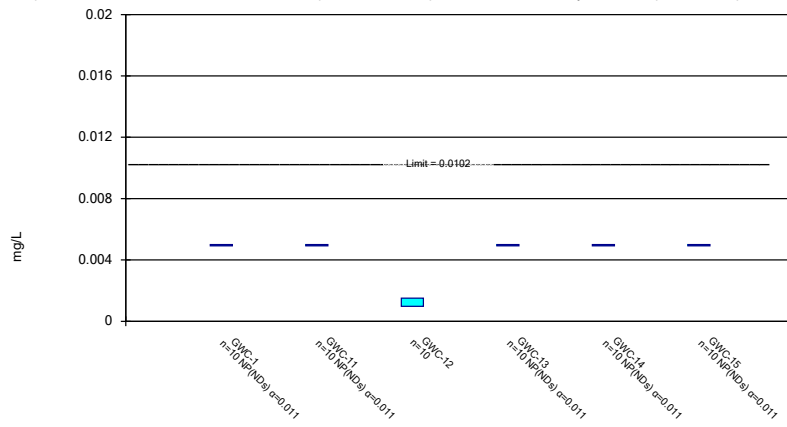
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

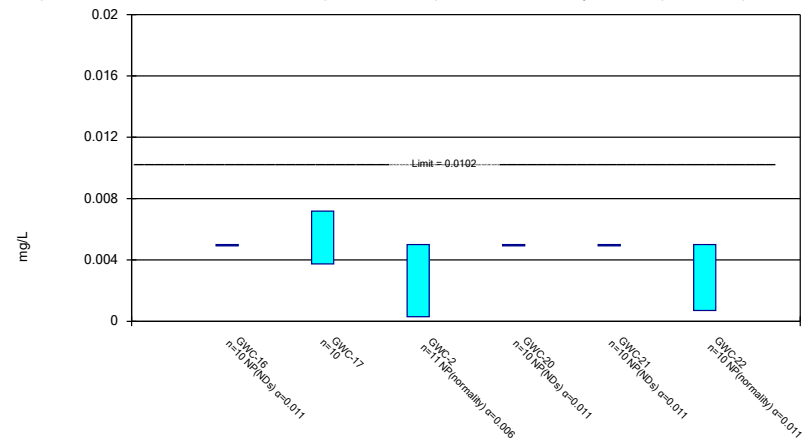
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

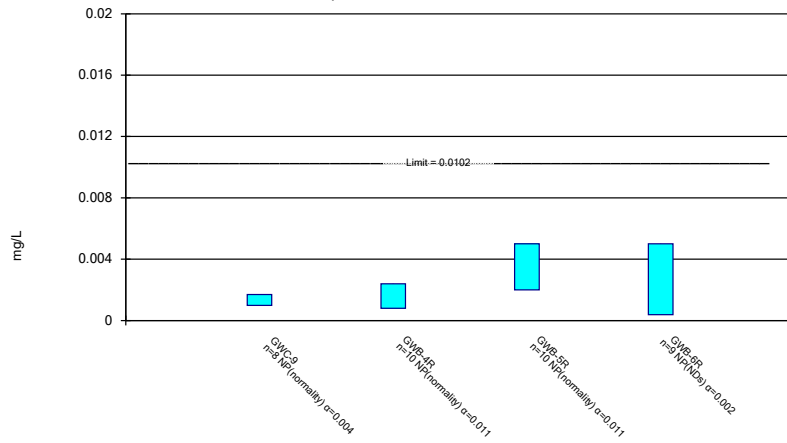
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

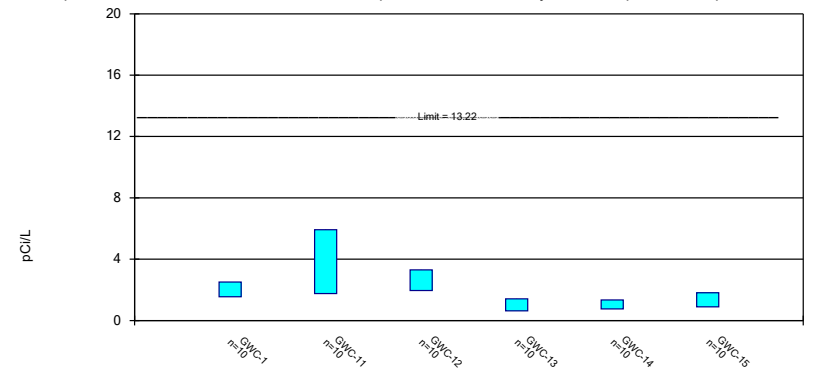
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

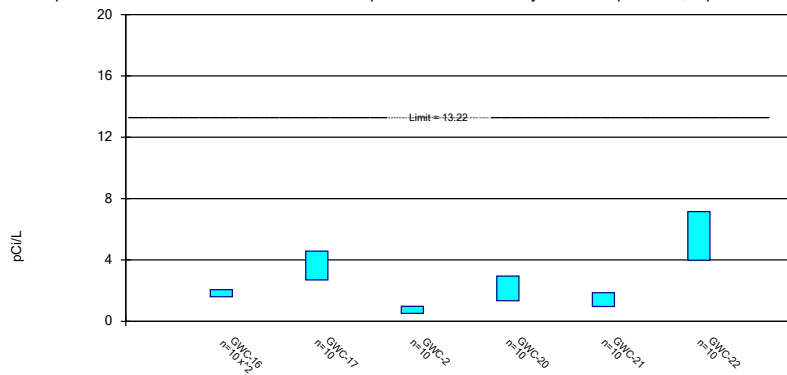
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric Confidence Interval

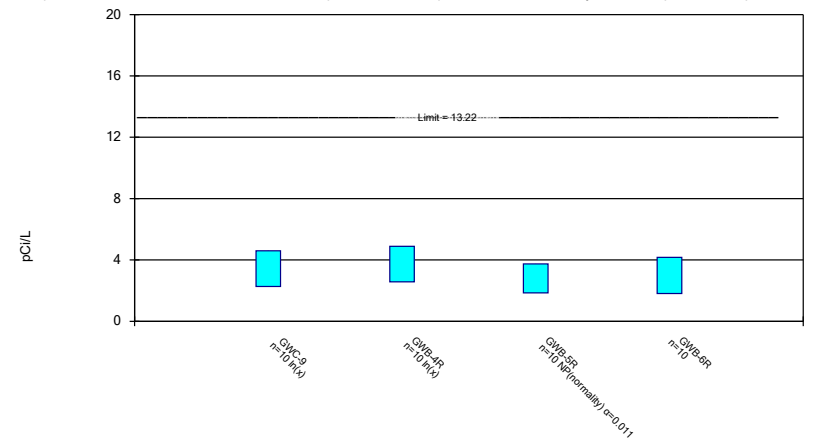
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Constituent: Combined Radium 226 + 228 Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

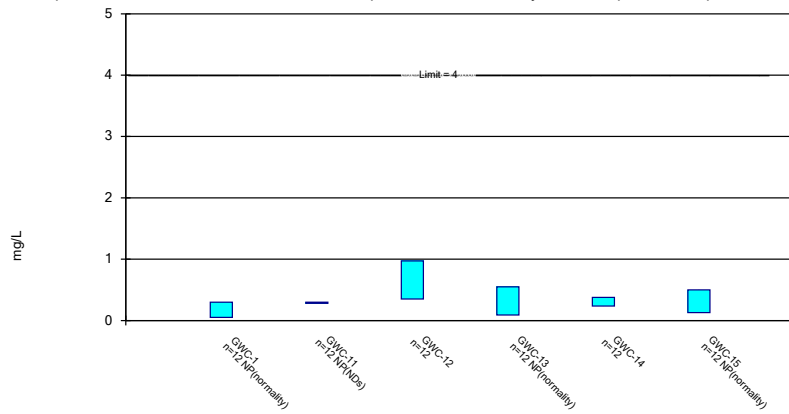
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

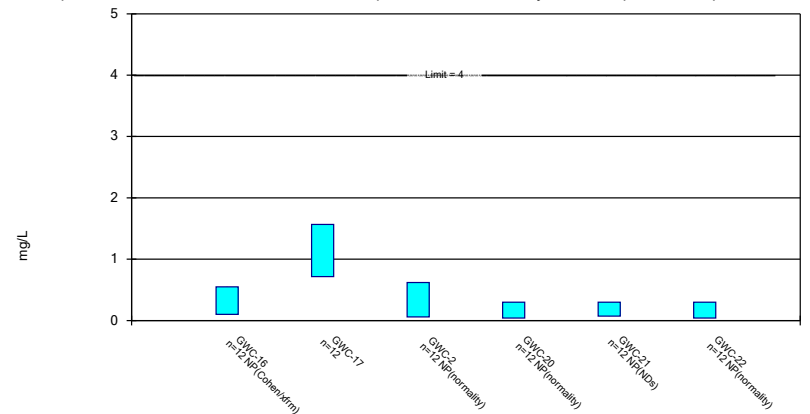
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Constituent: Fluoride Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

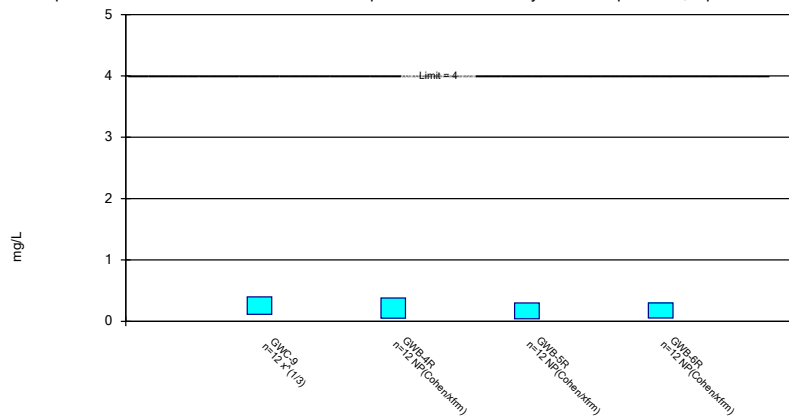
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/19/2020 2:06 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

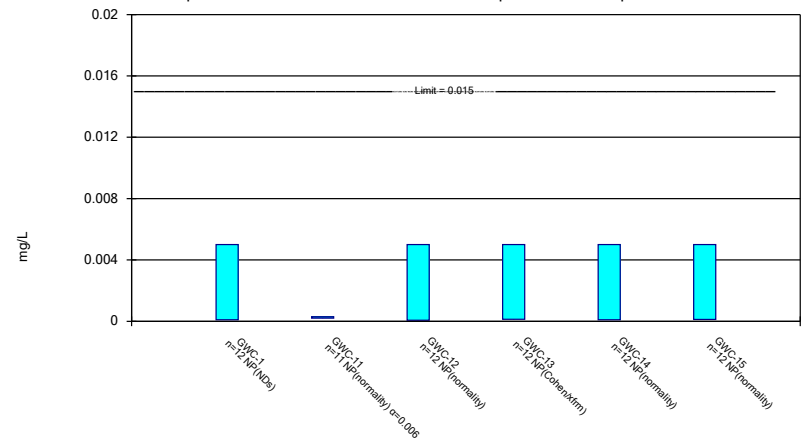
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

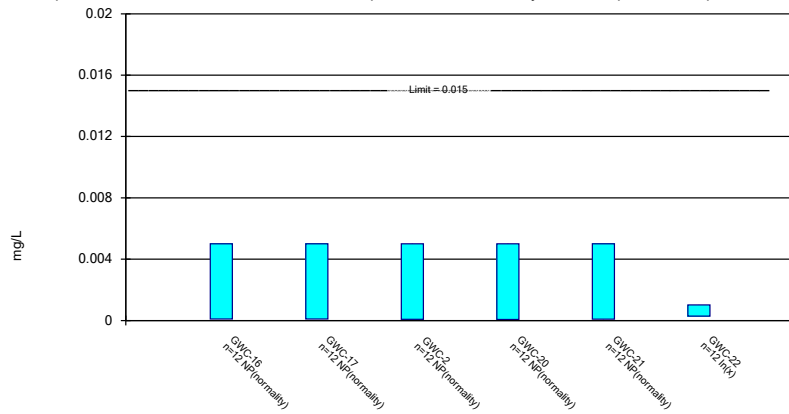
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

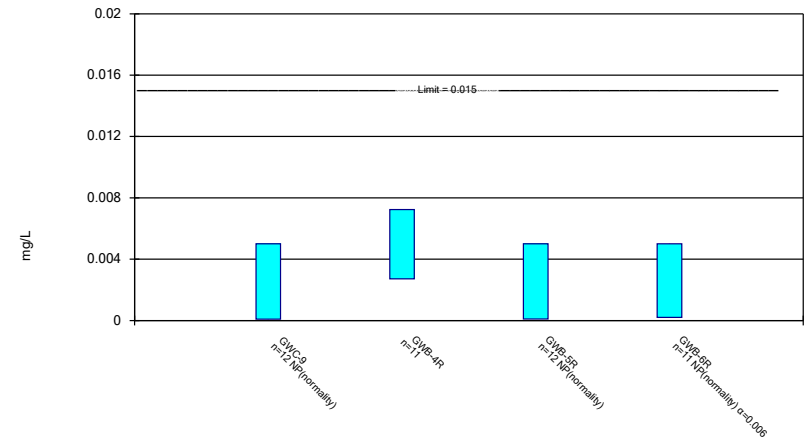
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

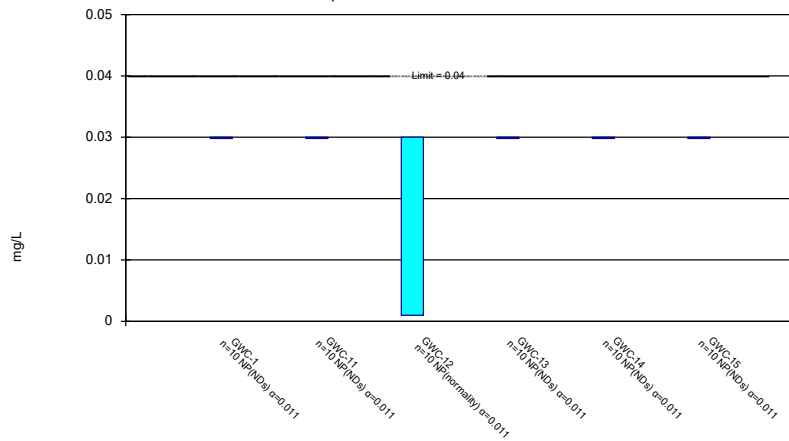
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

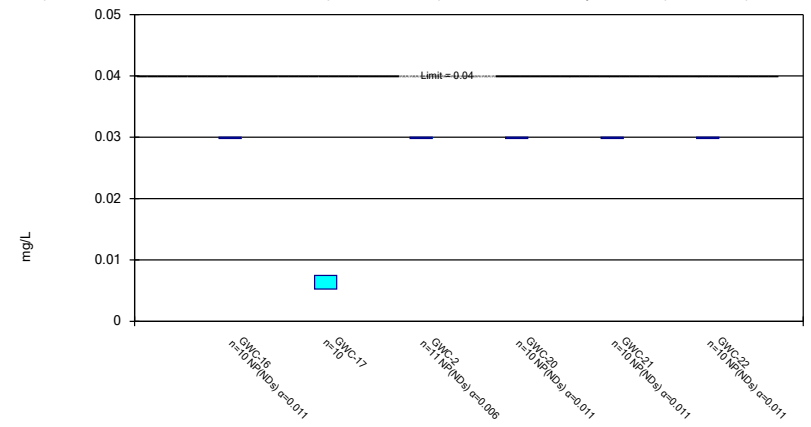
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

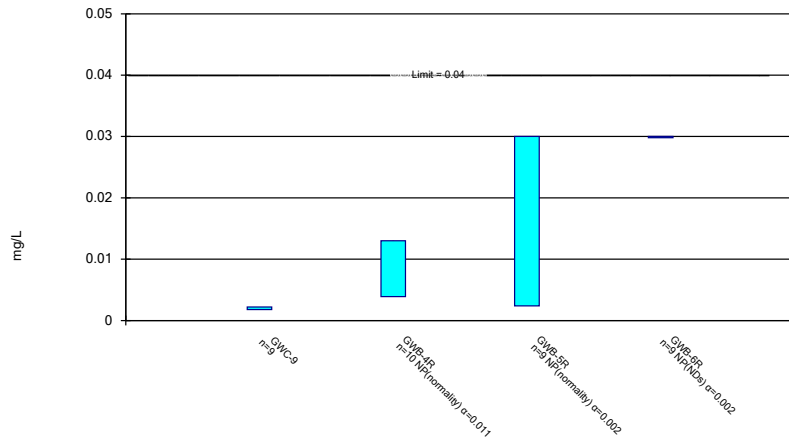
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

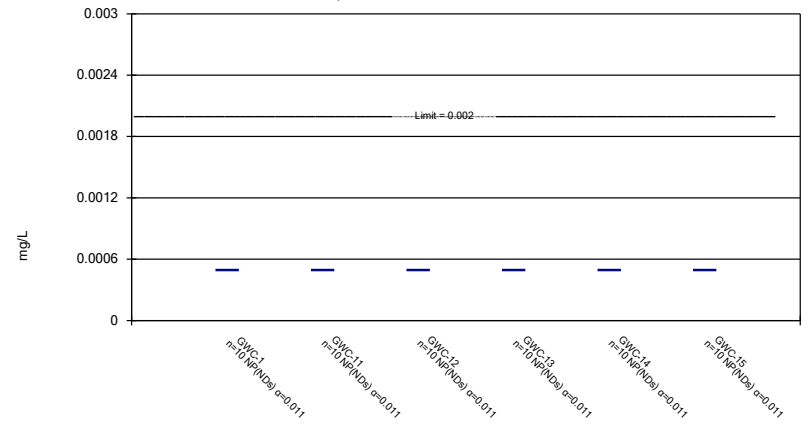
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

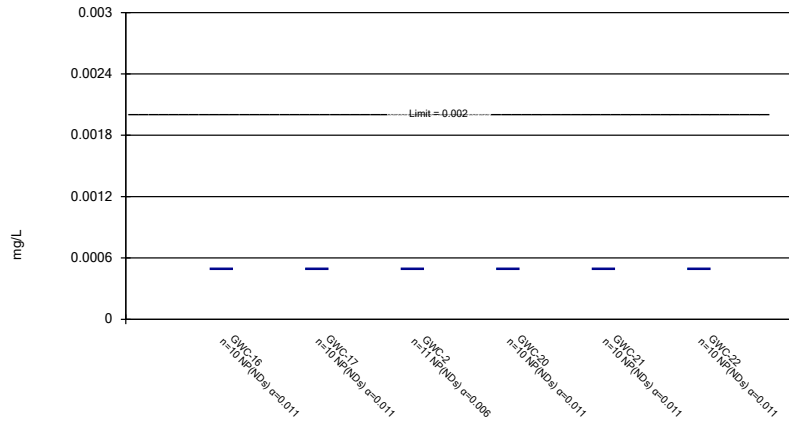
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

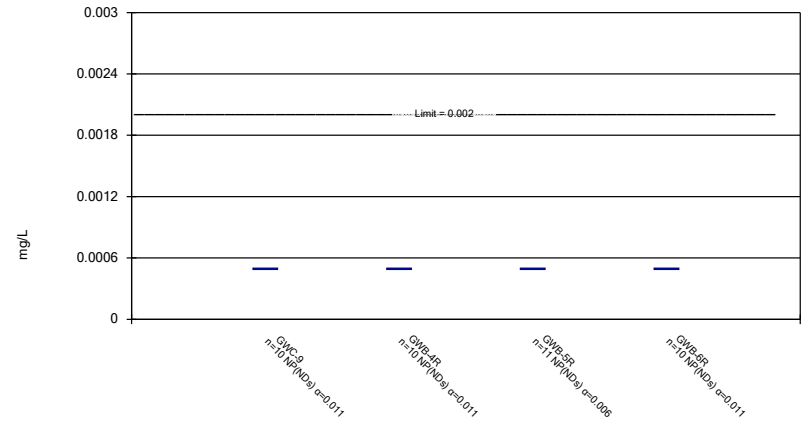
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

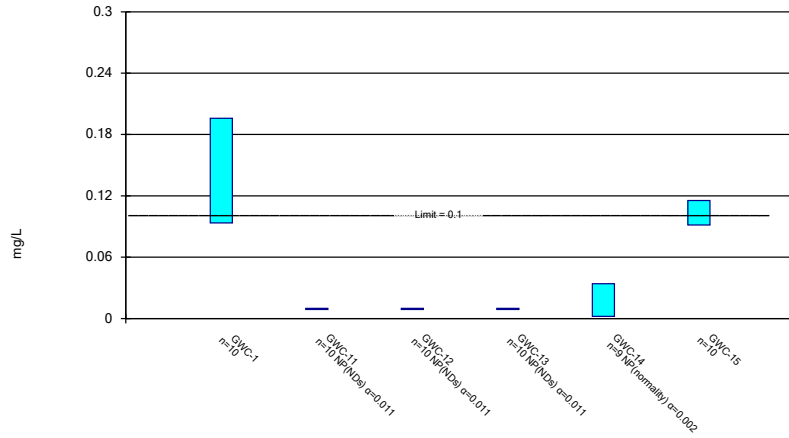
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

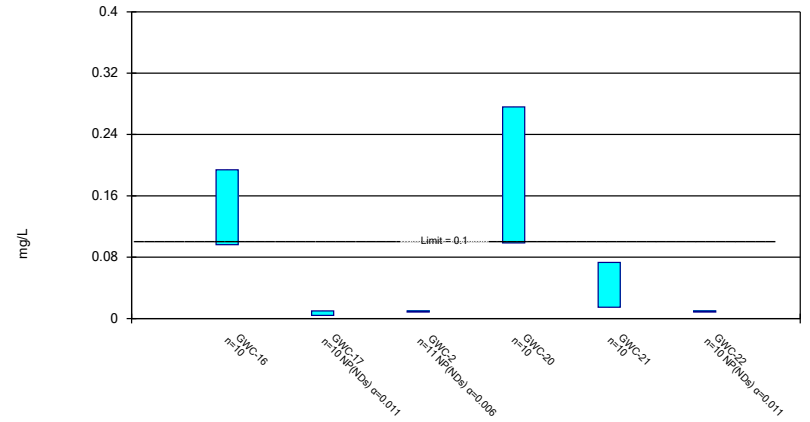
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

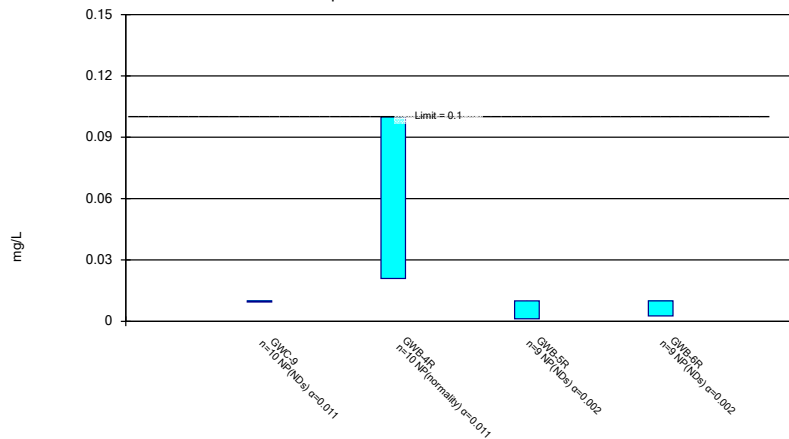
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

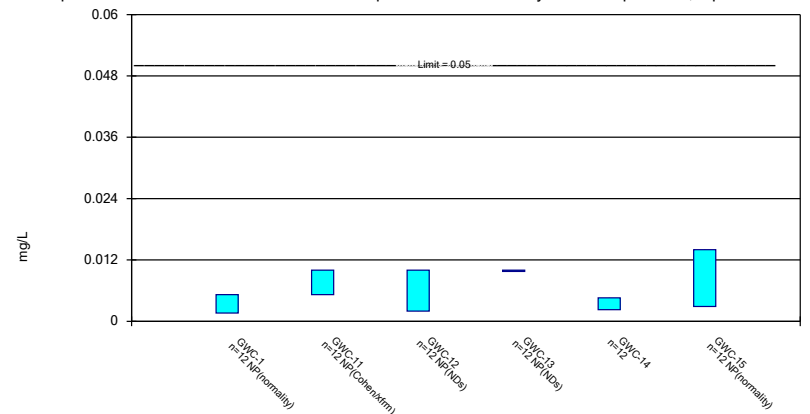
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

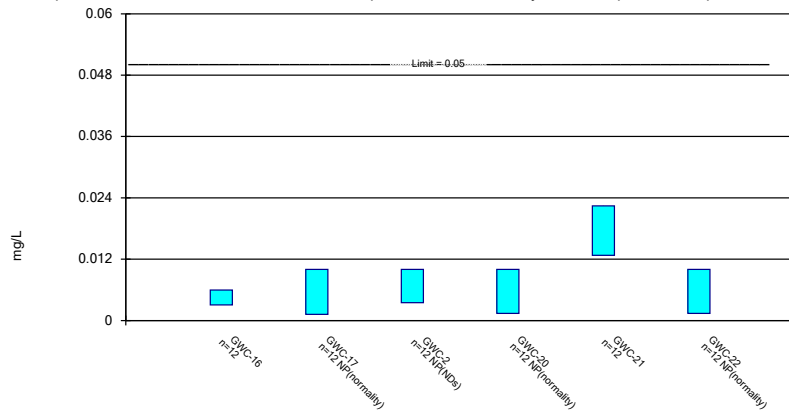
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

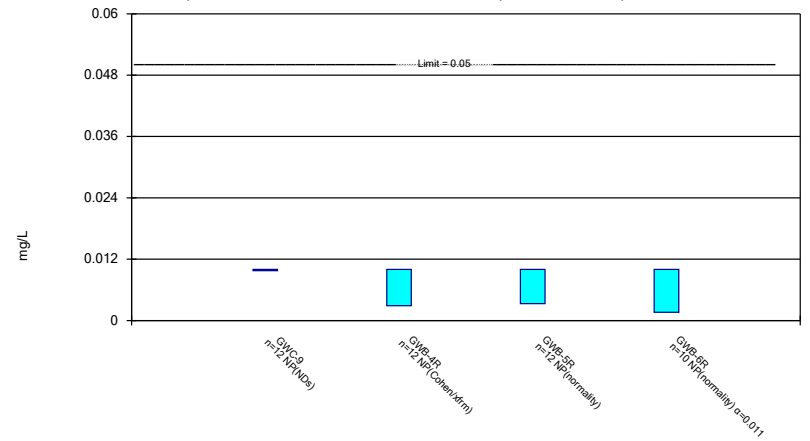
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

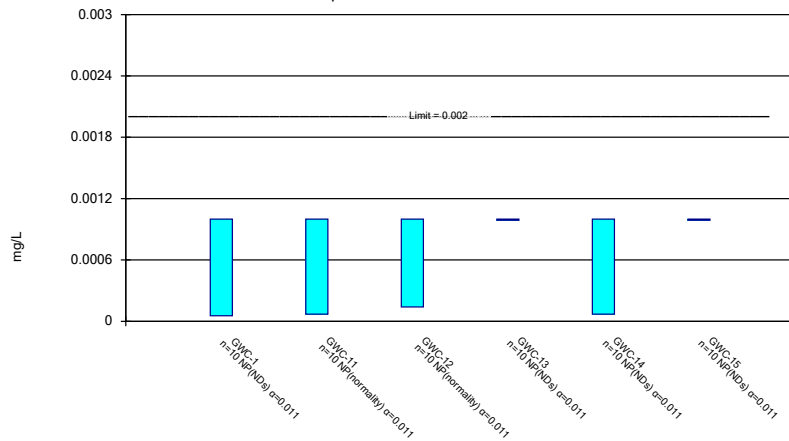
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

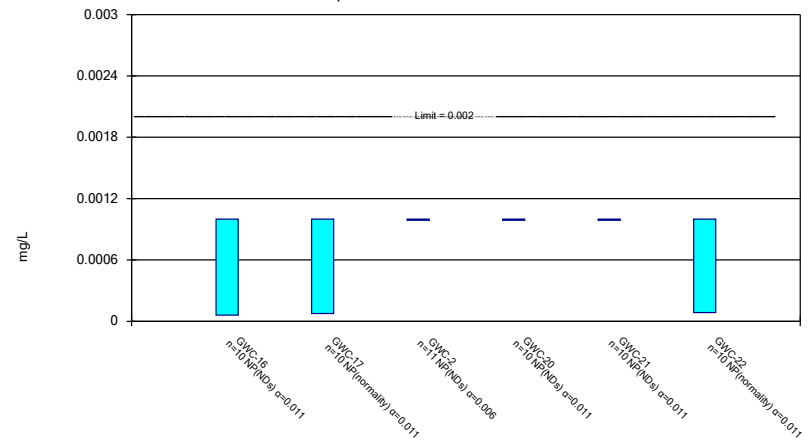
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

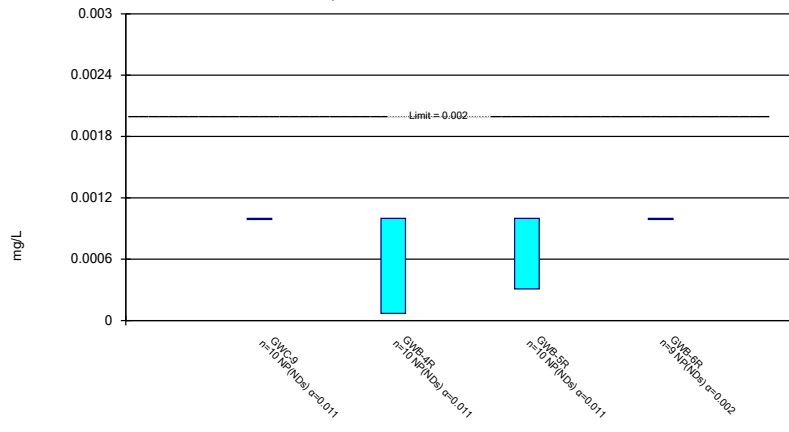
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 3/19/2020 2:07 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.003					
8/31/2016		<0.003	<0.003	<0.003		
9/1/2016					<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				<0.003	
4/5/2017			<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	<0.003	
1/17/2019		<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	<0.003	0.00033 (J)	<0.003	<0.003	<0.003	<0.003
10/8/2019		0.00046 (J)		<0.003	<0.003	<0.003
10/9/2019	<0.003		<0.003			
Mean	0.003	0.001999	0.003	0.003	0.003	0.003
Std. Dev.	0	0.001244	0	0	0	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.00046	0.003	0.003	0.003	0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.003	<0.003
8/31/2016	<0.003			
9/1/2016		<0.003		
10/26/2016		<0.003	<0.003	<0.003
10/27/2016	0.0016 (J)			
1/3/2017			<0.003	
1/5/2017				<0.003
1/6/2017	<0.003	<0.003		
4/4/2017		<0.003		
4/6/2017	<0.003		<0.003	<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003
10/3/2017			<0.003	<0.003
10/4/2017	<0.003	<0.003		
1/9/2018				<0.003
1/10/2018			<0.003	
1/11/2018	<0.003	<0.003		
7/10/2018			<0.003	<0.003
7/11/2018	<0.003	<0.003		
1/16/2019		<0.003	<0.003	
1/18/2019	<0.003			
3/25/2019		<0.003		
3/26/2019			<0.003	
3/27/2019	<0.003			
8/27/2019		<0.003		<0.003
8/28/2019	<0.003		0.00054 (J)	
10/9/2019	<0.003	<0.003		
Mean	0.002883	0.003	0.002776	0.003
Std. Dev.	0.0004041	0	0.0007417	0
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0016	0.003	0.003	0.003

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0023 (J)					
8/31/2016		<0.005	<0.005	<0.005		
9/1/2016					0.0024 (J)	0.0533
10/25/2016	0.0035 (J)				<0.005	0.0551
10/26/2016		<0.005	<0.005	<0.005		
1/4/2017	0.0018 (J)	<0.005	<0.005			
1/5/2017				<0.005	0.0024 (J)	0.0437
4/3/2017						0.0713
4/4/2017	0.0015 (J)				0.003 (J)	
4/5/2017			0.0006 (J)			
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	0.0015 (J)			<0.005		
10/2/2017					0.0026 (J)	0.0723
10/3/2017	0.0013 (J)	<0.005				
10/4/2017			0.0009 (J)	<0.005		
1/9/2018					0.0021 (J)	0.0731
1/10/2018	0.0023 (J)			0.0006 (J)		
1/11/2018		<0.005	<0.005			
7/9/2018					0.0019 (J)	
7/10/2018	0.0031 (J)					0.09
7/11/2018		<0.005	<0.005	<0.005		
1/16/2019	0.0023 (J)			<0.005	0.0016 (J)	
1/17/2019		<0.005	<0.005			0.13
3/26/2019	0.0032 (J)			0.00058 (J)	0.0023 (J)	0.1
3/27/2019		<0.005	<0.005			
8/27/2019	0.0022 (J)	<0.005	<0.005	<0.005	0.0017 (J)	0.17
10/8/2019		<0.005		<0.005	0.0017 (J)	0.13
10/9/2019	0.0042 (J)		<0.005			
Mean	0.002433	0.005	0.003942	0.004265	0.002383	0.08861
Std. Dev.	0.0008958	0	0.001916	0.001717	0.0009233	0.03763
Upper Lim.	0.003136	0.005	0.005	0.005	0.002896	0.1181
Lower Lim.	0.00173	0.005	0.0008	0.0006	0.001769	0.05908

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.0017 (J)
9/1/2016	0.0551	<0.005		0.215	0.0039 (J)	
10/25/2016	0.0466			0.307	<0.005	
10/26/2016		<0.005	<0.005			<0.005
1/4/2017	0.0444			0.311	<0.005	<0.005
1/5/2017		<0.005	<0.005			
4/4/2017			<0.005	0.317	0.0031 (J)	
4/5/2017	0.0591	0.0011 (J)				
4/6/2017						0.0006 (J)
7/11/2017				0.299		0.0012 (J)
7/12/2017	0.0776					
7/13/2017		0.0016 (J)	<0.005		<0.005	
10/2/2017				0.216		
10/3/2017	0.0813		<0.005		<0.005	
10/4/2017		0.0019 (J)				0.0025 (J)
1/9/2018					0.0033 (J)	
1/10/2018	0.085		0.0006 (J)	0.347		
1/11/2018		0.0015 (J)				0.0006 (J)
7/9/2018				0.37		
7/10/2018	0.067		<0.005		0.0027 (J)	
7/11/2018		0.00082 (J)				0.0011 (J)
1/16/2019		<0.005				
1/17/2019	0.079				0.0022 (J)	
1/18/2019						<0.005
1/21/2019			<0.005	0.44		
3/25/2019				0.41		
3/26/2019	0.089	0.0015 (J)			0.0045 (J)	
3/27/2019						<0.005
7/30/2019			0.00039 (J)			
8/27/2019			<0.005			0.00044 (J)
8/28/2019	0.091	0.0011 (J)		0.43	0.002 (J)	
10/8/2019	0.088				0.0028 (J)	
10/9/2019		0.0011 (J)	<0.005	0.35		<0.005
Mean	0.07193	0.002552	0.004249	0.3343	0.003708	0.002762
Std. Dev.	0.01686	0.00183	0.001754	0.07312	0.001164	0.002049
Upper Lim.	0.08515	0.005	0.005	0.3917	0.005305	0.005
Lower Lim.	0.0587	0.00082	0.0006	0.277	0.002777	0.0006

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
8/31/2016	<0.005			
9/1/2016		0.0033 (J)		
10/26/2016		0.0016 (J)	<0.005	<0.005
10/27/2016	<0.005			
1/3/2017			<0.005	
1/5/2017				0.0021 (J)
1/6/2017	<0.005	<0.005		
4/4/2017		0.0021 (J)		
4/6/2017	<0.005		0.0006 (J)	0.0011 (J)
7/12/2017	<0.005	0.0015 (J)	0.0009 (J)	0.0014 (J)
10/3/2017			0.001 (J)	0.0014 (J)
10/4/2017	<0.005	0.0018 (J)		
1/9/2018				0.0017 (J)
1/10/2018			0.0012 (J)	
1/11/2018	<0.005	0.0015 (J)		
7/10/2018			0.0016 (J)	0.00063 (J)
7/11/2018	<0.005	0.00095 (J)		
1/16/2019		0.0024 (J)	0.0011 (J)	
1/18/2019	<0.005			
3/25/2019		0.0029 (J)		
3/26/2019			0.0014 (J)	0.0029 (J)
3/27/2019	<0.005			
8/27/2019		0.0023 (J)		0.0035 (J)
8/28/2019	<0.005		0.0023 (J)	
10/9/2019	<0.005	0.0024 (J)	0.0053 (J)	0.0018 (J)
Mean	0.005	0.002312	0.002533	0.002412
Std. Dev.	0	0.001068	0.001924	0.001508
Upper Lim.	0.005	0.003151	0.0053	0.004022
Lower Lim.	0.005	0.001474	0.0009	0.001096

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0545					
8/31/2016		0.0565	0.019	0.0273		
9/1/2016					0.0346	0.0403
10/25/2016	0.0504				0.0248	0.0329
10/26/2016		0.0591	0.0197	0.0238		
1/4/2017	0.0534	0.0598	0.0174			
1/5/2017				0.0218	0.0245	0.0392
4/3/2017						0.0439
4/4/2017	0.0549				0.0342	
4/5/2017			0.0174			
4/6/2017		0.0813		0.0204		
7/10/2017			0.0172			
7/11/2017		0.0302			0.0276	0.051
7/12/2017	0.0614			0.0161		
10/2/2017					0.0274	0.047
10/3/2017	0.0436	0.103				
10/4/2017			0.0162	0.0185		
1/9/2018					0.0222	0.0431
1/10/2018	0.053			0.0166		
1/11/2018		0.166	0.018			
7/9/2018					0.026	
7/10/2018	0.059					0.047
7/11/2018		0.12	0.014	0.019		
1/16/2019	0.054			0.019	0.028	
1/17/2019		0.039	0.017			0.042
3/26/2019	0.055			0.026	0.034	0.047
3/27/2019		0.053	0.017			
8/27/2019	0.054	0.12	0.017	0.024	0.067	0.049
10/8/2019		0.13		0.024	0.085	0.057
10/9/2019	0.058		0.019			
Mean	0.05427	0.08483	0.01741	0.02138	0.03628	0.04495
Std. Dev.	0.004467	0.04225	0.001486	0.003661	0.01937	0.006208
Upper Lim.	0.05777	0.118	0.01857	0.02425	0.067	0.04982
Lower Lim.	0.05076	0.05167	0.01624	0.0185	0.0245	0.04008

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			0.0429			0.0693
9/1/2016	0.0445	0.203		0.0976	0.077	
10/25/2016	0.0464			0.0702	0.0217	
10/26/2016		0.177				0.0966
1/4/2017	0.0379			0.0999	0.0617	0.0975
1/5/2017		0.142	0.0526			
4/4/2017			0.0503	0.136	0.0761	
4/5/2017	0.0534	0.106				
4/6/2017						0.064
7/11/2017				0.145		0.0778
7/12/2017	0.0944					
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
1/9/2018					0.0704	
1/10/2018	0.0603		0.0527	0.0788		
1/11/2018		0.0412				0.0702
7/9/2018				0.087		
7/10/2018			0.054		0.061	
7/11/2018		0.049				0.12
1/16/2019		0.063				
1/17/2019	0.13				0.061	
1/18/2019						0.052
1/21/2019			0.05	0.069		
3/25/2019				0.085		
3/26/2019	0.14	0.025			0.084	
3/27/2019						0.057
7/30/2019			0.052			
8/27/2019			0.053			0.097
8/28/2019	0.09	0.026		0.078	0.063	
10/8/2019	0.13				0.079	
10/9/2019		0.032	0.05	0.078		0.065
Mean	0.08269	0.08264	0.05158	0.09771	0.06128	0.0852
Std. Dev.	0.03957	0.06072	0.003513	0.02896	0.01871	0.03005
Upper Lim.	0.118	0.1222	0.05451	0.1169	0.07596	0.1088
Lower Lim.	0.04738	0.037	0.04865	0.07591	0.04659	0.06162

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.135	0.106
8/31/2016	0.284			
9/1/2016		0.123		
10/26/2016		0.0863	0.103	0.107
10/27/2016	0.244			
1/3/2017			0.118	
1/5/2017				0.107
1/6/2017	0.305	0.0758		
4/4/2017		0.091		
4/6/2017	0.249		0.162	0.111
7/12/2017	0.256	0.0941	0.157	0.106
10/3/2017			0.127	0.105
10/4/2017	0.356	0.0994		
1/9/2018				0.0969
1/10/2018			0.158	
1/11/2018	0.226	0.088		
7/10/2018			0.31	0.087
7/11/2018	0.29	0.071		
1/16/2019		0.083	0.054	0.013 (J)
1/18/2019	0.21			
3/25/2019		0.077		
3/26/2019			0.057	0.012 (J)
3/27/2019	0.19			
8/27/2019		0.076		0.013
8/28/2019	0.17		0.1	
10/9/2019	0.18	0.076	0.13	0.014 (J)
Mean	0.2467	0.08672	0.1343	0.07316
Std. Dev.	0.05562	0.01432	0.0658	0.04485
Upper Lim.	0.2903	0.09795	0.1793	0.107
Lower Lim.	0.203	0.07548	0.0849	0.013

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.003					
8/31/2016		<0.003	0.0011 (J)	<0.003		
9/1/2016					0.0001 (J)	<0.003
10/25/2016	<0.003				<0.003	<0.003
10/26/2016		<0.003	0.0011 (J)	<0.003		
1/4/2017	<0.003	<0.003	0.0009 (J)			
1/5/2017				<0.003	<0.003	<0.003
4/3/2017						<0.003
4/4/2017	<0.003				9E-05 (J)	
4/5/2017			0.0008 (J)			
4/6/2017		<0.003		<0.003		
7/10/2017			0.0008 (J)			
7/11/2017		<0.003			<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			0.0006 (J)	<0.003		
1/9/2018					<0.003	<0.003
1/10/2018	<0.003			<0.003		
1/11/2018		<0.003	0.0006 (J)			
7/9/2018					6.2E-05 (J)	
7/10/2018	<0.003					<0.003
7/11/2018		<0.003	0.00061 (J)	5.8E-05 (J)		
8/27/2019	<0.003	<0.003	0.00047 (J)	<0.003	<0.003	<0.003
10/8/2019		<0.003		<0.003	<0.003	<0.003
10/9/2019	<0.003		0.00046 (J)			
Mean	0.003	0.003	0.000744	0.002706	0.002125	0.003
Std. Dev.	0	0	0.0002355	0.0009303	0.001409	0
Upper Lim.	0.003	0.003	0.0009541	0.003	0.003	0.003
Lower Lim.	0.003	0.003	0.0005339	0.003	9E-05	0.003

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.003			0.0002 (J)
9/1/2016	0.0001 (J)	0.0014 (J)		<0.003	<0.003	
10/25/2016	<0.003			<0.003	<0.003	
10/26/2016		0.0016 (J)	0.0003 (J)			0.0002 (J)
1/4/2017	9E-05 (J)			<0.003	<0.003	0.0001 (J)
1/5/2017		0.0019 (J)	<0.003			
4/4/2017			9E-05 (J)	<0.003	<0.003	
4/5/2017	9E-05 (J)	0.0024 (J)				
4/6/2017						<0.003
7/11/2017				<0.003		<0.003
7/12/2017	<0.003					
7/13/2017		0.0034	<0.003		<0.003	
10/2/2017				<0.003		
10/3/2017	<0.003		<0.003		<0.003	
10/4/2017		0.0037				0.0001 (J)
1/9/2018					<0.003	
1/10/2018	0.0001 (J)		<0.003	<0.003		
1/11/2018		0.0033				<0.003
7/9/2018				<0.003		
7/10/2018	6E-05 (J)		<0.003		<0.003	
7/11/2018		0.0038				7E-05 (J)
7/30/2019			<0.003			
8/27/2019			<0.003			9E-05 (J)
8/28/2019	8E-05 (J)	0.0017 (J)		<0.003	<0.003	
10/8/2019	9.8E-05 (J)				<0.003	
10/9/2019		0.0018 (J)	<0.003	<0.003		<0.003
Mean	0.0009618	0.0025	0.00249	0.003	0.003	0.001276
Std. Dev.	0.001407	0.0009487	0.001136	0	0	0.001484
Upper Lim.	0.003	0.003346	0.003	0.003	0.003	0.003
Lower Lim.	8E-05	0.001654	0.0003	0.003	0.003	9E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.0002 (J)	<0.003
8/31/2016	0.0003 (J)			
9/1/2016		0.0004 (J)		
10/26/2016		0.0001 (J)	0.0001 (J)	<0.003
10/27/2016	0.0003 (J)			
1/3/2017			0.0001 (J)	
1/5/2017				<0.003
1/6/2017	0.0002 (J)	0.0001 (J)		
4/4/2017		0.0001 (J)		
4/6/2017	0.0003 (J)		0.0003 (J)	<0.003
7/12/2017	0.0003 (J)	<0.003	0.0002 (J)	<0.003
10/3/2017			0.0002 (J)	<0.003
10/4/2017	0.0002 (J)	0.0001 (J)		
1/9/2018				<0.003
1/10/2018			0.0003 (J)	
1/11/2018	0.0003 (J)	0.0001 (J)		
7/10/2018			0.00028 (J)	<0.003
7/11/2018	0.0003 (J)	<0.003		
8/27/2019		<0.003		<0.003
8/28/2019	0.00022 (J)		7.6E-05 (J)	
10/9/2019	0.00023 (J)	<0.003		
Mean	0.000265	0.00129	0.0001951	0.003
Std. Dev.	4.601E-05	0.001475	8.772E-05	0
Upper Lim.	0.0003	0.003	0.0002798	0.003
Lower Lim.	0.0002	0.0001	0.0001104	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.0025					
8/31/2016		0.0002 (J)	<0.0025	<0.0025		
9/1/2016					0.0001 (J)	<0.0025
10/25/2016	<0.0025				0.0002 (J)	<0.0025
10/26/2016		0.0001 (J)	<0.0025	<0.0025		
1/4/2017	0.0001 (J)	0.0001 (J)	<0.0025			
1/5/2017				<0.0025	0.0002 (J)	<0.0025
4/3/2017						<0.0025
4/4/2017	7E-05 (J)				0.0002 (J)	
4/5/2017			<0.0025			
4/6/2017		0.0002 (J)		<0.0025		
7/10/2017			<0.0025			
7/11/2017		<0.0025			0.0002 (J)	<0.0025
7/12/2017	<0.0025			<0.0025		
10/2/2017					<0.0025	<0.0025
10/3/2017	<0.0025	0.0003 (J)				
10/4/2017			<0.0025	<0.0025		
1/9/2018					<0.0025	<0.0025
1/10/2018	<0.0025			<0.0025		
1/11/2018		0.0006 (J)	<0.0025			
7/9/2018					0.00017 (J)	
7/10/2018	<0.0025					<0.0025
7/11/2018		0.0004 (J)	<0.0025	<0.0025		
8/27/2019	<0.0025	0.00044 (J)	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2019		0.00043 (J)		<0.0025	<0.0025	<0.0025
10/9/2019	<0.0025		<0.0025			
Mean	0.002017	0.000527	0.0025	0.0025	0.001107	0.0025
Std. Dev.	0.001018	0.0007119	0	0	0.001199	0
Upper Lim.	0.0025	0.0007567	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0001	0.0001406	0.0025	0.0025	0.00017	0.0025

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.0025	<0.0025
8/31/2016	<0.0025			
9/1/2016		0.0002 (J)		
10/26/2016		<0.0025	<0.0025	<0.0025
10/27/2016	<0.0025			
1/3/2017			<0.0025	
1/5/2017				<0.0025
1/6/2017	<0.0025	9E-05 (J)		
4/4/2017		9E-05 (J)		
4/6/2017	<0.0025		<0.0025	<0.0025
7/12/2017	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2017			<0.0025	<0.0025
10/4/2017	<0.0025	<0.0025		
1/9/2018				<0.0025
1/10/2018			<0.0025	
1/11/2018	<0.0025	0.0002 (J)		
7/10/2018			<0.0025	<0.0025
7/11/2018	<0.0025	<0.0025		
8/27/2019		<0.0025		<0.0025
8/28/2019	<0.0025		<0.0025	
10/9/2019	<0.0025	<0.0025		
Mean	0.0025	0.001558	0.0025	0.0025
Std. Dev.	0	0.001217	0	0
Upper Lim.	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	9E-05	0.0025	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.0015 (J)					
8/31/2016		0.001 (J)	0.0012 (J)	0.0011 (J)		
9/1/2016					0.0015 (J)	0.0011 (J)
10/25/2016	0.0018 (J)				<0.01	<0.01
10/26/2016		<0.01	0.0012 (J)	<0.01		
1/4/2017	0.0021 (J)	<0.01	0.0012 (J)			
1/5/2017				<0.01	0.001 (J)	<0.01
4/3/2017						0.0015 (J)
4/4/2017	0.002 (J)				0.001 (J)	
4/5/2017			0.0013 (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	0.0021 (J)			0.0007 (J)		
10/2/2017					0.0009 (J)	0.0013 (J)
10/3/2017	0.0014 (J)	0.0007 (J)				
10/4/2017			0.0011 (J)	0.0008 (J)		
1/9/2018					0.0006 (J)	0.0012 (J)
1/10/2018	0.0017 (J)			0.0007 (J)		
1/11/2018		0.0098 (J)	0.001 (J)			
7/9/2018					<0.01	
7/10/2018	0.0021 (J)					<0.01
7/11/2018		<0.01	<0.01	0.0019 (J)		
1/16/2019	0.0021 (J)			<0.01	<0.01	
1/17/2019		<0.01	0.0028 (J)			<0.01
3/26/2019	0.0018 (J)			<0.01	<0.01	<0.01
3/27/2019		<0.01	<0.01			
8/27/2019	0.0062 (J)	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)
10/8/2019		0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)
10/9/2019	0.0019 (J)		0.00081 (J)			
Mean	0.002225	0.005386	0.002738	0.005525	0.003944	0.004975
Std. Dev.	0.001274	0.004786	0.00343	0.004684	0.004479	0.004439
Upper Lim.	0.0062	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0007	0.00085	0.0007	0.0006	0.0012

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			<0.01
9/1/2016	0.0011 (J)	0.0011 (J)		<0.01	<0.01	
10/25/2016	<0.01			<0.01	<0.01	
10/26/2016		<0.01	0.001 (J)			<0.01
1/4/2017	<0.01			<0.01	<0.01	<0.01
1/5/2017		0.0012 (J)	<0.01			
4/4/2017			0.0008 (J)	0.0011 (J)	0.0008 (J)	
4/5/2017	0.001 (J)	0.0015 (J)				
4/6/2017						0.0006 (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	0.0009 (J)		<0.01		0.0005 (J)	
10/4/2017		0.0055 (J)				0.0006 (J)
1/9/2018					0.0007 (J)	
1/10/2018	0.0007 (J)		<0.01	0.0008 (J)		
1/11/2018		0.0009 (J)				<0.01
7/9/2018				<0.01		
7/10/2018	<0.01		<0.01		<0.01	
7/11/2018		<0.01				<0.01
1/16/2019		<0.01				
1/17/2019	0.01 (J)				0.01	
1/18/2019						<0.01
1/21/2019			<0.01	<0.01		
3/25/2019				<0.01		
3/26/2019	<0.01	<0.01			<0.01	
3/27/2019						<0.01
7/30/2019			0.00065 (J)			
8/27/2019			<0.01			0.00057 (J)
8/28/2019	0.0011 (J)	0.0013 (J)		0.00089 (J)	0.00087 (J)	
10/8/2019	0.00099 (J)				0.00065 (J)	
10/9/2019		0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)
Mean	0.004741	0.004459	0.006128	0.005474	0.005343	0.006082
Std. Dev.	0.004644	0.004276	0.004786	0.004728	0.004865	0.004842
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0009	0.0009	0.0006	0.00089	0.0006	0.00057

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	0.0013 (J)
8/31/2016	0.0024 (J)			
9/1/2016		0.015		
10/26/2016		0.0106	<0.01	0.0014 (J)
10/27/2016	<0.01			
1/3/2017			0.001 (J)	
1/5/2017				0.002 (J)
1/6/2017	<0.01	0.0098 (J)		
4/4/2017		0.0101		
4/6/2017	0.0019 (J)		0.0013 (J)	0.0034 (J)
7/12/2017	0.0011 (J)	0.0096 (J)	0.0011 (J)	0.0024 (J)
10/3/2017			0.0012 (J)	0.0022 (J)
10/4/2017	0.0011 (J)	0.0097 (J)		
1/9/2018				0.0019 (J)
1/10/2018			0.0016 (J)	
1/11/2018	0.001 (J)	0.0109		
7/10/2018			0.0055 (J)	0.0023 (J)
7/11/2018	<0.01	0.0055 (J)		
1/16/2019		0.0024 (J)	<0.01	0.018 (J)
1/18/2019	<0.01			
3/25/2019		0.002 (J)		
3/26/2019			0.072	0.017 (J)
3/27/2019	<0.01			
8/27/2019		0.0027 (J)		0.0097 (J)
8/28/2019	0.00089 (J)		0.0071 (J)	
10/9/2019	0.0009 (J)	0.002 (J)	0.012 (J)	0.011 (J)
Mean	0.004941	0.007525	0.01107	0.00605
Std. Dev.	0.004487	0.004393	0.01965	0.006235
Upper Lim.	0.01	0.01097	0.012	0.017
Lower Lim.	0.0009	0.004078	0.0011	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.005					
8/31/2016		<0.005	0.0018 (J)	<0.005		
9/1/2016					<0.005	<0.005
10/25/2016	<0.005				<0.005	<0.005
10/26/2016		<0.005	0.0016 (J)	<0.005		
1/4/2017	<0.005	<0.005	0.0014 (J)			
1/5/2017				<0.005	<0.005	<0.005
4/3/2017						<0.005
4/4/2017	<0.005				<0.005	
4/5/2017			0.0013 (J)			
4/6/2017		<0.005		<0.005		
7/10/2017			0.0013 (J)			
7/11/2017		<0.005			0.0003 (J)	<0.005
7/12/2017	<0.005			<0.005		
10/2/2017					<0.005	<0.005
10/3/2017	<0.005	<0.005				
10/4/2017			0.0011 (J)	<0.005		
1/9/2018					<0.005	<0.005
1/10/2018	<0.005			<0.005		
1/11/2018		0.0003 (J)	0.0011 (J)			
7/9/2018					<0.005	
7/10/2018	<0.005					<0.005
7/11/2018		<0.005	0.00096 (J)	<0.005		
8/27/2019	<0.005	<0.005	0.0009 (J)	<0.005	<0.005	<0.005
10/8/2019		<0.005		<0.005	<0.005	<0.005
10/9/2019	<0.005		0.00094 (J)			
Mean	0.005	0.00453	0.00124	0.005	0.00453	0.005
Std. Dev.	0	0.001486	0.000298	0	0.001486	0
Upper Lim.	0.005	0.005	0.001506	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.0009741	0.005	0.005	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.001 (J)
9/1/2016	<0.005	0.0046 (J)		<0.005	<0.005	
10/25/2016	<0.005			<0.005	<0.005	
10/26/2016		0.0046 (J)	0.0011 (J)			0.0009 (J)
1/4/2017	<0.005			<0.005	<0.005	0.0007 (J)
1/5/2017		0.0062 (J)	<0.005			
4/4/2017			<0.005	<0.005	<0.005	
4/5/2017	<0.005	0.007 (J)				
4/6/2017						<0.005
7/11/2017				<0.005		<0.005
7/12/2017	<0.005					
7/13/2017		0.0077 (J)	0.0003 (J)		<0.005	
10/2/2017				<0.005		
10/3/2017	<0.005		0.0003 (J)		<0.005	
10/4/2017		0.0073 (J)				0.0007 (J)
1/9/2018					<0.005	
1/10/2018	<0.005		<0.005	<0.005		
1/11/2018		0.0061 (J)				<0.005
7/9/2018				<0.005		
7/10/2018	<0.005		<0.005		<0.005	
7/11/2018		0.0064 (J)				<0.005
7/30/2019			0.00032 (J)			
8/27/2019			<0.005			0.00077 (J)
8/28/2019	<0.005	0.0023 (J)		<0.005	<0.005	
10/8/2019	<0.005				<0.005	
10/9/2019		0.0024 (J)	<0.005	<0.005		<0.005
Mean	0.005	0.00546	0.003365	0.005	0.005	0.002907
Std. Dev.	0	0.001928	0.002278	0	0	0.002208
Upper Lim.	0.005	0.00718	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00374	0.0003	0.005	0.005	0.0007

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
9/1/2016		0.0024 (J)		
10/26/2016		0.0011 (J)	<0.005	<0.005
10/27/2016	0.0017 (J)			
1/3/2017			<0.005	
1/5/2017				<0.005
1/6/2017	0.0017 (J)	0.001 (J)		
4/4/2017		0.001 (J)		
4/6/2017	0.0017 (J)		<0.005	<0.005
7/12/2017	0.0016 (J)	0.0008 (J)	<0.005	<0.005
10/3/2017			<0.005	<0.005
10/4/2017		0.001 (J)		
1/9/2018				<0.005
1/10/2018			0.0004 (J)	
1/11/2018	0.0017 (J)	0.0008 (J)		
7/10/2018			0.002 (J)	<0.005
7/11/2018	0.0017 (J)	<0.005		
8/27/2019		0.0011 (J)		0.00038 (J)
8/28/2019	0.00099 (J)		0.0024 (J)	
10/9/2019	0.00099 (J)	0.0015 (J)	0.0037 (J)	
Mean	0.00151	0.00157	0.00385	0.004487
Std. Dev.	0.0003228	0.001294	0.001679	0.00154
Upper Lim.	0.0017	0.0024	0.005	0.005
Lower Lim.	0.00099	0.0008	0.002	0.00038

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	2.36					
8/31/2016		2.2	2.61	1.23		
9/1/2016					1.28	2.45
10/25/2016	2.02				1.54	1.04 (U)
10/26/2016		1.96	3.28	0.641 (U)		
1/4/2017	2.1	1.88	3.77			
1/5/2017				0.657 (U)	0.715 (U)	1.36
4/3/2017						0.697 (U)
4/4/2017	1.39 (U)				0.699 (U)	
4/5/2017			3.25			
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	1.63			0.414 (U)		
10/2/2017					0.855 (U)	1.52
10/3/2017	1.84	4.73				
10/4/2017			1.68	1.33		
1/9/2018					0.861 (U)	1.17
1/10/2018	2.11			1.21		
1/11/2018		7.49	2.94			
7/9/2018					0.693 (U)	
7/10/2018	1.29					1.26
7/11/2018		5.88	2.03	1.4 (U)		
8/27/2019	2.41	5.09	2.09	1.27	1.32	1.75
10/8/2019		6.39		1.62	1.41	1.52
10/9/2019	3.13		3.11			
Mean	2.028	3.84	2.631	1.021	1.049	1.352
Std. Dev.	0.5404	2.331	0.7567	0.4376	0.3227	0.5106
Upper Lim.	2.51	5.92	3.306	1.412	1.337	1.808
Lower Lim.	1.546	1.761	1.956	0.6307	0.7614	0.8966

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			1.01			5.96
9/1/2016	1.99	5.19		2.21	1.05	
10/25/2016	1.98			1.51 (U)	1.2	
10/26/2016		4.25	0.725 (U)			7.42
1/4/2017	1.72			2.56	2.11	6.07
1/5/2017		3.55	0.735 (U)			
4/4/2017			0.87 (U)	1.77	2.02	
4/5/2017	1.72	4.39				
4/6/2017						3
7/11/2017				2.76		4.2
7/12/2017	1.11					
7/13/2017		2.44	0.42 (U)		0.576 (U)	
10/2/2017				4.15		
10/3/2017	2.13		0.995 (U)		0.86	
10/4/2017		4.95				7.16
1/9/2018					1.43	
1/10/2018	1.74		0.698 (U)	1.96		
1/11/2018		3.53				3.57
7/9/2018				1.11		
7/10/2018	1.97		1.01		1.63	
7/11/2018		3.13				7.57
8/27/2019			0.787 (U)			7.04
8/28/2019	2.04	2.01		1.13 (U)	1.4 (U)	
10/8/2019	1.89				1.88	
10/9/2019		2.91	0.22 (U)	2.28		3.68
Mean	1.829	3.635	0.747	2.144	1.416	5.567
Std. Dev.	0.2898	1.052	0.2591	0.8989	0.5059	1.782
Upper Lim.	2.064	4.574	0.9782	2.946	1.867	7.157
Lower Lim.	1.607	2.696	0.5158	1.342	0.9642	3.977

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			1.81	2.19
8/31/2016	3.3			
9/1/2016		5.27		
10/26/2016		2.32	2.03	2.67
10/27/2016	2.7			
1/3/2017			1.85	
1/5/2017				3.74
1/6/2017	4.45	5.1		
4/4/2017		5		
4/6/2017	3.1		2.66	2.36
7/12/2017	2.73	2.69	2.1	1.54
10/3/2017			2	3.63
10/4/2017	8.16	4.82		
1/9/2018				2.07
1/10/2018			2.55	
1/11/2018	2.31	4.48		
7/10/2018			3.14	1.63
7/11/2018	3.31	2.69		
8/27/2019		2.97		4.63
8/28/2019	1.91		3.74	
10/9/2019	3.09	2.17	7.23	5.45
Mean	3.506	3.751	2.911	2.991
Std. Dev.	1.77	1.281	1.639	1.319
Upper Lim.	4.601	4.885	3.74	4.168
Lower Lim.	2.267	2.573	1.85	1.814

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.22 (J)					
8/31/2016		<0.3	0.7	<0.3		
9/1/2016					0.25 (J)	<0.3
10/25/2016	<0.3				0.43	0.5
10/26/2016		<0.3	0.91	0.55		
1/4/2017	0.18 (J)	<0.3	0.51			
1/5/2017				0.09 (J)	0.21 (J)	0.22 (J)
4/3/2017						<0.3
4/4/2017	<0.3				0.45	
4/5/2017			0.71			
4/6/2017		<0.3		<0.3		
7/10/2017			0.88			
7/11/2017		<0.3			0.41	0.06 (J)
7/12/2017	0.04 (J)			<0.3		
10/2/2017					<0.3	<0.3
10/3/2017	<0.3	<0.3				
10/4/2017			0.37	<0.3		
1/9/2018					<0.3	<0.3
1/10/2018	<0.3			<0.3		
1/11/2018		<0.3	1.4			
7/9/2018					<0.3	
7/10/2018	<0.3					0.15 (J)
7/11/2018		<0.3	0.62	<0.3		
1/16/2019	<0.3			<0.3	<0.3	
1/17/2019		<0.3	1.2			<0.3
3/26/2019	0.051 (J)			0.052 (J)	0.13 (J)	0.13 (J)
3/27/2019		<0.3	0.036 (J)			
8/27/2019	<0.3	<0.3	0.3	<0.3	<0.3	<0.3
10/8/2019		<0.3		<0.3	<0.3	<0.3
10/9/2019	<0.3		<0.3			
Mean	0.2409	0.3	0.6613	0.2827	0.3067	0.2633
Std. Dev.	0.09932	0	0.3944	0.1223	0.09069	0.1125
Upper Lim.	0.3	0.3	0.9708	0.55	0.3778	0.5
Lower Lim.	0.051	0.3	0.3519	0.09	0.2355	0.13

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			0.07 (J)			0.04 (J)
9/1/2016	0.55	0.68		<0.3	<0.3	
10/25/2016	0.36			<0.3	<0.3	
10/26/2016		0.68	0.62			0.12 (J)
1/4/2017	0.1 (J)			0.04 (J)	<0.3	0.06 (J)
1/5/2017		0.73	0.17 (J)			
4/4/2017			0.08 (J)	0.02 (J)	<0.3	
4/5/2017	0.2 (J)	1.6				
4/6/2017						<0.3
7/11/2017				0.14 (J)		0.03 (J)
7/12/2017	0.04 (J)					
7/13/2017		1.7	0.06 (J)		<0.3	
10/2/2017				<0.3		
10/3/2017	0.86		0.06 (J)		<0.3	
10/4/2017		1.8				0.12 (J)
1/9/2018					<0.3	
1/10/2018	<0.3		<0.3	<0.3		
1/11/2018		1.5				<0.3
7/9/2018				<0.3		
7/10/2018	<0.3		<0.3		<0.3	
7/11/2018		1.8				<0.3
1/16/2019		1.4				
1/17/2019	<0.3				<0.3	
1/18/2019						<0.3
1/21/2019			<0.3	<0.3		
3/25/2019				0.043 (J)		
3/26/2019	0.11 (J)	0.89			0.071 (J)	
3/27/2019						<0.3
7/30/2019			0.083 (J)			
8/27/2019			<0.3			0.1
8/28/2019	<0.3	0.61		<0.3	<0.3	
10/8/2019	<0.3				<0.3	
10/9/2019		<0.3	<0.3	<0.3		<0.3
Mean	0.31	1.141	0.2203	0.2203	0.2809	0.1892
Std. Dev.	0.22	0.5422	0.1669	0.1211	0.06611	0.1189
Upper Lim.	0.55	1.566	0.62	0.3	0.3	0.3
Lower Lim.	0.1	0.7154	0.06	0.04	0.071	0.04

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.04 (J)	0.09 (J)
8/31/2016	0.55			
9/1/2016		<0.3		
10/26/2016		0.05 (J)	0.05 (J)	0.24 (J)
10/27/2016	0.26 (J)			
1/3/2017			0.08 (J)	
1/5/2017				0.11 (J)
1/6/2017	0.25 (J)	0.08 (J)		
4/4/2017		<0.3		
4/6/2017	0.16 (J)		0.006 (J)	0.3
7/12/2017	0.2 (J)	0.38	0.05 (J)	0.15 (J)
10/3/2017			0.11 (J)	0.11 (J)
10/4/2017	0.22 (J)	<0.3		
1/9/2018				<0.3
1/10/2018			<0.3	
1/11/2018	0.98	<0.3		
7/10/2018			0.2 (J)	<0.3
7/11/2018	0.14 (J)	<0.3		
1/16/2019		1.2	<0.3	0.053 (J)
1/18/2019	0.24 (J)			
3/25/2019		0.064 (J)		
3/26/2019			<0.3	0.046 (J)
3/27/2019	0.13 (J)			
8/27/2019		0.031 (J)		0.13 (J)
8/28/2019	0.088 (J)		0.097 (J)	
10/9/2019	0.068 (J)	<0.3	<0.3	<0.3
Mean	0.2738	0.3004	0.1528	0.1774
Std. Dev.	0.2547	0.3097	0.1185	0.1029
Upper Lim.	0.3979	0.38	0.3	0.3
Lower Lim.	0.1129	0.05	0.04	0.053

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.005					
8/31/2016		0.0002 (J)	0.0001 (J)	<0.005		
9/1/2016					<0.005	<0.005
10/25/2016	<0.005				<0.005	<0.005
10/26/2016		0.0001 (J)	0.0001 (J)	<0.005		
1/4/2017	<0.005	0.0002 (J)	<0.005			
1/5/2017				0.0002 (J)	<0.005	<0.005
4/3/2017						0.0003 (J)
4/4/2017	<0.005				0.0001 (J)	
4/5/2017			0.0003 (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	<0.005			0.0005 (J)		
10/2/2017					0.0001 (J)	0.0002 (J)
10/3/2017	<0.005	0.0003 (J)				
10/4/2017			0.0001 (J)	0.0007 (J)		
1/9/2018					<0.005	0.0002 (J)
1/10/2018	0.0001 (J)			0.0009 (J)		
1/11/2018		0.0003 (J)	0.0002 (J)			
7/9/2018					<0.005	
7/10/2018	<0.005					<0.005
7/11/2018			<0.005	0.0015 (J)		
1/16/2019	<0.005			0.00061 (J)	<0.005	
1/17/2019		0.00028 (J)	<0.005			<0.005
3/26/2019	<0.005			<0.005	<0.005	<0.005
3/27/2019		0.00029 (J)	<0.005			
8/27/2019	<0.005	0.00021 (J)	<0.005	0.0001 (J)	0.00051 (J)	0.00033 (J)
10/8/2019		0.00028 (J)		0.00013 (J)	<0.005	0.00012 (J)
10/9/2019	<0.005		6.6E-05 (J)			
Mean	0.004592	0.0002418	0.00218	0.001678	0.003399	0.002604
Std. Dev.	0.001415	6.462E-05	0.00249	0.002038	0.002367	0.002503
Upper Lim.	0.005	0.0003	0.005	0.005	0.005	0.005
Lower Lim.	0.0001	0.0002	6.6E-05	0.00013	0.0001	0.00012

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.005			0.0003 (J)
9/1/2016	<0.005	<0.005		<0.005	<0.005	
10/25/2016	0.0002 (J)			0.0001 (J)	<0.005	
10/26/2016		<0.005	<0.005			0.0003 (J)
1/4/2017	0.0001 (J)			<0.005	<0.005	0.0003 (J)
1/5/2017		<0.005	<0.005			
4/4/2017			0.0002 (J)	7E-05 (J)	9E-05 (J)	
4/5/2017	0.0002 (J)	0.0009 (J)				
4/6/2017						0.0003 (J)
7/11/2017				<0.005		0.0002 (J)
7/12/2017	0.0001 (J)					
7/13/2017		<0.005	0.0003 (J)		7E-05 (J)	
10/2/2017				<0.005		
10/3/2017	0.0001 (J)		<0.005		0.0001 (J)	
10/4/2017		0.0001 (J)				0.0008 (J)
1/9/2018					9E-05 (J)	
1/10/2018	0.0002 (J)		8E-05 (J)	0.0002 (J)		
1/11/2018		0.0001 (J)				0.0009 (J)
7/9/2018				<0.005		
7/10/2018	<0.005		<0.005		<0.005	
7/11/2018		<0.005				0.001 (J)
1/16/2019		<0.005				
1/17/2019	<0.005				<0.005	
1/18/2019						0.0012 (J)
1/21/2019			<0.005	<0.005		
3/25/2019				<0.005		
3/26/2019	<0.005	<0.005			<0.005	
3/27/2019						0.00047 (J)
7/30/2019			0.0002 (J)			
8/27/2019			<0.005			0.003 (J)
8/28/2019	0.0001 (J)	<0.005		6.5E-05 (J)	0.00018 (J)	
10/8/2019	0.0001 (J)				0.00016 (J)	
10/9/2019		0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)
Mean	0.001758	0.003437	0.002987	0.002968	0.002557	0.0007575
Std. Dev.	0.002394	0.002317	0.002488	0.002512	0.002551	0.0007821
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.001014
Lower Lim.	0.0001	0.0001	8E-05	7E-05	9E-05	0.000289

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.005	<0.005
8/31/2016	0.0007 (J)			
10/26/2016		0.0057	0.0002 (J)	<0.005
10/27/2016	<0.005			
1/3/2017			0.0001 (J)	
1/5/2017				0.0003 (J)
1/6/2017	<0.005	0.0053		
4/4/2017		0.0092		
4/6/2017	0.0001 (J)		0.0003 (J)	0.0002 (J)
7/12/2017	<0.005	0.006	0.0002 (J)	0.0002 (J)
10/3/2017			0.0002 (J)	0.0001 (J)
10/4/2017	9E-05 (J)	0.0057		
1/9/2018				0.0003 (J)
1/10/2018			0.0003 (J)	
1/11/2018	0.0002 (J)	0.0085		
7/10/2018			<0.005	<0.005
7/11/2018	<0.005	0.0029 (J)		
1/16/2019		<0.005	<0.005	<0.005
1/18/2019	<0.005			
3/25/2019		<0.005		
3/26/2019			<0.005	
3/27/2019	<0.005			
8/27/2019		0.001 (J)		0.0011 (J)
8/28/2019	6.1E-05 (J)		0.0011 (J)	
10/9/2019	<0.005	0.00041 (J)	0.0025 (J)	0.00033 (J)
Mean	0.003013	0.004974	0.002075	0.002048
Std. Dev.	0.002461	0.00271	0.002258	0.002355
Upper Lim.	0.005	0.007232	0.005	0.005
Lower Lim.	9E-05	0.002716	0.0001	0.0002

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.03					
8/31/2016		<0.03	<0.03	<0.03		
9/1/2016					<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				<0.03	
4/5/2017			0.0012 (J)			
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	<0.03	0.00094 (J)	<0.03	<0.03	<0.03
10/8/2019		<0.03		<0.03	<0.03	<0.03
10/9/2019	<0.03		0.0011 (J)			
Mean	0.03	0.03	0.01842	0.03	0.03	0.03
Std. Dev.	0	0	0.01495	0	0	0
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.03	0.03	0.00098	0.03	0.03	0.03

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.03			<0.03
9/1/2016	<0.03	0.0066 (J)		<0.03	<0.03	
10/25/2016	<0.03			<0.03	<0.03	
10/26/2016		0.0065 (J)	<0.03			<0.03
1/4/2017	<0.03			<0.03	<0.03	<0.03
1/5/2017		0.0062 (J)	<0.03			
4/4/2017			<0.03	<0.03	<0.03	
4/5/2017	<0.03	0.007 (J)				
4/6/2017						<0.03
7/11/2017				<0.03		<0.03
7/12/2017	<0.03					
7/13/2017		0.0069 (J)	<0.03		<0.03	
10/2/2017				<0.03		
10/3/2017	<0.03		<0.03		<0.03	
10/4/2017		0.0082 (J)				<0.03
1/9/2018					<0.03	
1/10/2018	<0.03		<0.03	<0.03		
1/11/2018		0.0061 (J)				<0.03
7/9/2018				<0.03		
7/10/2018	<0.03		<0.03		<0.03	
7/11/2018		0.0075 (J)				<0.03
7/30/2019			<0.03			
8/27/2019			<0.03			<0.03
8/28/2019	<0.03	0.0041 (J)		<0.03	<0.03	
10/8/2019	<0.03				<0.03	
10/9/2019		0.0046 (J)	<0.03	<0.03		<0.03
Mean	0.03	0.00637	0.03	0.03	0.03	0.03
Std. Dev.	0	0.001237	0	0	0	0
Upper Lim.	0.03	0.007473	0.03	0.03	0.03	0.03
Lower Lim.	0.03	0.005267	0.03	0.03	0.03	0.03

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			0.0042 (J)	<0.03
9/1/2016		0.0092 (J)		
10/26/2016		0.0046 (J)	<0.03	<0.03
10/27/2016	0.0023 (J)			
1/3/2017			0.0024 (J)	
1/5/2017				<0.03
1/6/2017	0.0021 (J)	0.0042 (J)		
4/4/2017		0.0056 (J)		
4/6/2017	0.0021 (J)		0.0051 (J)	<0.03
7/12/2017	0.0017 (J)	0.0035 (J)	0.0031 (J)	<0.03
10/3/2017			0.0027 (J)	<0.03
10/4/2017	0.0021 (J)	0.0041 (J)		
1/9/2018				<0.03
1/10/2018			0.0041 (J)	
1/11/2018	0.0022 (J)	0.0052 (J)		
7/10/2018			0.005 (J)	<0.03
7/11/2018	0.0019 (J)	0.0039 (J)		
8/27/2019		0.013 (J)		<0.03
8/28/2019	0.0018 (J)		<0.03	
10/9/2019	0.0018 (J)	0.013 (J)		
Mean	0.002	0.00663	0.009622	0.03
Std. Dev.	0.0002062	0.00372	0.01159	0
Upper Lim.	0.002199	0.013	0.03	0.03
Lower Lim.	0.001801	0.0039	0.0024	0.03

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.0005			<0.0005
9/1/2016	<0.0005	<0.0005		<0.0005	<0.0005	
10/25/2016	<0.0005			<0.0005	<0.0005	
10/26/2016		<0.0005	<0.0005			<0.0005
1/4/2017	<0.0005			<0.0005	<0.0005	<0.0005
1/5/2017		<0.0005	<0.0005			
4/4/2017			<0.0005	<0.0005	<0.0005	
4/5/2017	<0.0005	<0.0005				
4/6/2017						<0.0005
7/11/2017				<0.0005		<0.0005
7/12/2017	<0.0005					
7/13/2017		<0.0005	<0.0005		<0.0005	
10/2/2017				<0.0005		
10/3/2017	<0.0005		<0.0005		<0.0005	
10/4/2017		<0.0005				<0.0005
1/9/2018					<0.0005	
1/10/2018	<0.0005		<0.0005	<0.0005		
1/11/2018		<0.0005				<0.0005
7/9/2018				<0.0005		
7/10/2018	<0.0005		<0.0005		<0.0005	
7/11/2018		<0.0005				<0.0005
1/16/2019		<0.0005				
1/17/2019	<0.0005				<0.0005	
1/18/2019						<0.0005
1/21/2019			<0.0005	<0.0005		
7/30/2019			<0.0005			
8/27/2019			<0.0005			<0.0005
8/28/2019	<0.0005	<0.0005		<0.0005	<0.0005	
Mean	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Std. Dev.	0	0	0	0	0	0
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.0005	<0.0005
8/31/2016	<0.0005			
9/1/2016		<0.0005		
10/26/2016		<0.0005	<0.0005	<0.0005
10/27/2016	<0.0005			
1/3/2017			<0.0005	
1/5/2017				<0.0005
1/6/2017	<0.0005	<0.0005		
4/4/2017		<0.0005		
4/6/2017	<0.0005		<0.0005	<0.0005
7/12/2017	<0.0005	<0.0005	<0.0005	<0.0005
10/3/2017			<0.0005	<0.0005
10/4/2017	5E-05 (J)	<0.0005		
1/9/2018				<0.0005
1/10/2018			<0.0005	
1/11/2018	<0.0005	<0.0005		
7/10/2018			<0.0005	<0.0005
7/11/2018	<0.0005	<0.0005		
1/16/2019		4.9E-05 (J)	<0.0005	4.3E-05 (J)
1/18/2019	<0.0005			
8/27/2019		<0.0005		<0.0005
8/28/2019	<0.0005		<0.0005	
10/9/2019			<0.0005	
Mean	0.000455	0.0004549	0.0005	0.0004543
Std. Dev.	0.0001423	0.0001426	0	0.0001445
Upper Lim.	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0005	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.175					
8/31/2016		<0.01	<0.01	<0.01		
9/1/2016					0.0027 (J)	0.132
10/25/2016	0.242				0.0028 (J)	0.117
10/26/2016		<0.01	<0.01	<0.01		
1/4/2017	0.167	<0.01	<0.01			
1/5/2017				<0.01	0.0022 (J)	0.109
4/3/2017						0.0994
4/4/2017	0.172				0.0022 (J)	
4/5/2017			<0.01			
4/6/2017		<0.01		<0.01		
7/10/2017			<0.01			
7/11/2017		<0.01			0.0024 (J)	0.0938
7/12/2017	0.182			<0.01		
10/2/2017					0.0025 (J)	0.103
10/3/2017	0.162	<0.01				
10/4/2017			<0.01	<0.01		
1/9/2018					0.0038 (J)	0.106
1/10/2018	0.117			<0.01		
1/11/2018		0.0018 (J)	<0.01			
7/10/2018	0.11					0.088
7/11/2018		<0.01	<0.01	<0.01		
8/27/2019	0.06	<0.01	<0.01	<0.01	0.028	0.095
10/8/2019		<0.01		<0.01	0.034	0.091
10/9/2019	0.06		<0.01			
Mean	0.1447	0.00918	0.01	0.01	0.008956	0.1034
Std. Dev.	0.05739	0.002593	0	0	0.0126	0.01338
Upper Lim.	0.1959	0.01	0.01	0.01	0.034	0.1154
Lower Lim.	0.0935	0.01	0.01	0.01	0.0022	0.09148

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			<0.01
9/1/2016	0.08	<0.01		0.296	0.0686	
10/25/2016	0.08			0.395	0.0018 (J)	
10/26/2016		<0.01	<0.01			<0.01
1/4/2017	0.0786			0.229	0.0222	<0.01
1/5/2017		<0.01	<0.01			
4/4/2017			<0.01	0.147	0.0476	
4/5/2017	0.113	<0.01				
4/6/2017						<0.01
7/11/2017				0.136		<0.01
7/12/2017	0.178					
7/13/2017		<0.01	<0.01		0.0105	
10/2/2017				0.13		
10/3/2017	0.201		<0.01		0.0031 (J)	
10/4/2017		<0.01				<0.01
1/9/2018					0.09	
1/10/2018	0.161		<0.01	0.229		
1/11/2018		<0.01				<0.01
7/9/2018				0.13		
7/10/2018	0.14		<0.01		0.047	
7/11/2018		<0.01				<0.01
7/30/2019			<0.01			
8/27/2019			<0.01			<0.01
8/28/2019	0.22	0.004 (J)		0.11	0.07	
10/8/2019	0.2				0.078	
10/9/2019		0.0036 (J)	<0.01	0.071		<0.01
Mean	0.1452	0.00876	0.01	0.1873	0.04388	0.01
Std. Dev.	0.05481	0.002616	0	0.09931	0.0327	0
Upper Lim.	0.1941	0.01	0.01	0.2759	0.07306	0.01
Lower Lim.	0.09626	0.004	0.01	0.0987	0.0147	0.01

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	<0.01
8/31/2016	<0.01			
9/1/2016		0.035		
10/26/2016		0.0267	<0.01	<0.01
10/27/2016	<0.01			
1/3/2017			<0.01	
1/5/2017				<0.01
1/6/2017	<0.01	0.0278		
4/4/2017		0.0265		
4/6/2017	<0.01		<0.01	<0.01
7/12/2017	<0.01	0.0209	<0.01	<0.01
10/3/2017			<0.01	<0.01
10/4/2017	<0.01	0.0181		
1/9/2018				<0.01
1/10/2018			<0.01	
1/11/2018	<0.01	0.0237		
7/10/2018			<0.01	<0.01
7/11/2018	<0.01	0.024		
8/27/2019		0.1		0.0026 (J)
8/28/2019	<0.01		0.0012 (J)	
10/9/2019	<0.01	0.1		
Mean	0.01	0.04027	0.009022	0.009178
Std. Dev.	0	0.0318	0.002933	0.002467
Upper Lim.	0.01	0.1	0.01	0.01
Lower Lim.	0.01	0.0209	0.0012	0.0026

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	0.002 (J)					
8/31/2016		0.0084 (J)	0.0019 (J)	<0.01		
9/1/2016					0.0056 (J)	<0.01
10/25/2016	0.0022 (J)				0.0023 (J)	<0.01
10/26/2016		0.0052 (J)	0.002 (J)	<0.01		
1/4/2017	0.0016 (J)	0.0062 (J)	<0.01			
1/5/2017				<0.01	0.0038 (J)	<0.01
4/3/2017						<0.01
4/4/2017	0.0052 (J)				0.0064 (J)	
4/5/2017			<0.01			
4/6/2017		0.0195		<0.01		
7/10/2017			<0.01			
7/11/2017		<0.01			0.0044 (J)	<0.01
7/12/2017	0.0024 (J)			<0.01		
10/2/2017					0.004 (J)	<0.01
10/3/2017	<0.01	0.0079 (J)				
10/4/2017			<0.01	<0.01		
1/9/2018					0.0019 (J)	0.0019 (J)
1/10/2018	0.0018 (J)			<0.01		
1/11/2018		0.0054 (J)	<0.01			
7/9/2018					0.0029 (J)	
7/10/2018	0.0026 (J)					0.0086 (J)
7/11/2018		0.0022 (J)	<0.01	<0.01		
1/16/2019	0.0018 (J)			<0.01	0.0016 (J)	
1/17/2019		<0.01	<0.01			0.0029 (J)
3/26/2019	0.0023 (J)			<0.01	0.0022 (J)	0.0074 (J)
3/27/2019		0.01 (J)	<0.01			
8/27/2019	0.0016 (J)	<0.01	<0.01	<0.01	0.0035 (J)	0.0092 (J)
10/8/2019		<0.01		<0.01	0.0026 (J)	0.014
10/9/2019	0.0024 (J)		<0.01			
Mean	0.002992	0.008733	0.008658	0.01	0.003433	0.008667
Std. Dev.	0.002405	0.004237	0.003134	0	0.001489	0.003304
Upper Lim.	0.0052	0.01	0.01	0.01	0.004602	0.014
Lower Lim.	0.0016	0.0052	0.002	0.01	0.002265	0.0029

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.01			0.0014 (J)
9/1/2016	0.0052 (J)	0.0012 (J)		<0.01	0.0297	
10/25/2016	0.0085 (J)			0.0014 (J)	0.0095 (J)	
10/26/2016		0.0013 (J)	0.0035 (J)			0.001 (J)
1/4/2017	0.0048 (J)			0.0014 (J)	0.022	<0.01
1/5/2017		0.0012 (J)	<0.01			
4/4/2017			<0.01	<0.01	0.0236	
4/5/2017	0.0068 (J)	<0.01				
4/6/2017						<0.01
7/11/2017				<0.01		<0.01
7/12/2017	0.0048 (J)					
7/13/2017		0.0018 (J)	<0.01		0.013	
10/2/2017				<0.01		
10/3/2017	0.0051 (J)		<0.01		0.01 (J)	
10/4/2017		0.0042 (J)				0.0023 (J)
1/9/2018					0.0162	
1/10/2018	0.0018 (J)		<0.01	<0.01		
1/11/2018		<0.01				<0.01
7/9/2018				<0.01		
7/10/2018	0.0045 (J)		<0.01		0.016	
7/11/2018		0.0016 (J)				<0.01
1/16/2019		<0.01				
1/17/2019	0.0031 (J)				0.011	
1/18/2019						<0.01
1/21/2019			<0.01	0.0014 (J)		
3/25/2019				<0.01		
3/26/2019	0.0033 (J)	<0.01			0.022	
3/27/2019						<0.01
7/30/2019			<0.01			
8/27/2019			<0.01			<0.01
8/28/2019	0.004 (J)	<0.01		0.0014 (J)	0.019	
10/8/2019	0.0023 (J)				0.019	
10/9/2019		<0.01	<0.01	<0.01		<0.01
Mean	0.004517	0.005942	0.009458	0.007133	0.01758	0.007892
Std. Dev.	0.001861	0.00431	0.001876	0.004234	0.006162	0.003825
Upper Lim.	0.005977	0.01	0.01	0.01	0.02242	0.01
Lower Lim.	0.003056	0.0012	0.0035	0.0014	0.01275	0.0014

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.01	<0.01
8/31/2016	<0.01			
9/1/2016		0.0067 (J)		
10/26/2016		0.0042 (J)	<0.01	<0.01
10/27/2016	<0.01			
1/3/2017			<0.01	
1/5/2017				0.0014 (J)
1/6/2017	<0.01	0.0042 (J)		
4/4/2017		0.0043 (J)		
4/6/2017	<0.01		<0.01	<0.01
7/12/2017	<0.01	0.0033 (J)	<0.01	<0.01
10/3/2017			<0.01	<0.01
10/4/2017	<0.01	0.0038 (J)		
1/9/2018				<0.01
1/10/2018			<0.01	
1/11/2018	<0.01	0.0029 (J)		
7/10/2018			0.0018 (J)	0.0016 (J)
7/11/2018	<0.01	0.0015 (J)		
1/16/2019		<0.01	<0.01	
1/18/2019	<0.01			
3/25/2019		<0.01		
3/26/2019			<0.01	0.05 (J)
3/27/2019	<0.01			
8/27/2019		<0.01		0.0033 (J)
8/28/2019	<0.01		0.0033 (J)	
10/9/2019	<0.01	<0.01	0.0073 (J)	
Mean	0.01	0.005908	0.008533	0.01163
Std. Dev.	0	0.003244	0.002917	0.014
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.0029	0.0033	0.0016

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001	<0.001		
9/1/2016					<0.001	<0.001
10/25/2016	<0.001				<0.001	<0.001
10/26/2016		<0.001	0.0003 (J)	<0.001		
1/4/2017	<0.001	<0.001	<0.001			
1/5/2017				<0.001	<0.001	<0.001
4/3/2017						<0.001
4/4/2017	5E-05 (J)				7E-05 (J)	
4/5/2017			0.0002 (J)			
4/6/2017		6E-05 (J)		<0.001		
7/10/2017			0.0002 (J)			
7/11/2017		<0.001			6E-05 (J)	<0.001
7/12/2017	<0.001			<0.001		
10/2/2017					<0.001	<0.001
10/3/2017	<0.001	7E-05 (J)				
10/4/2017			0.0002 (J)	<0.001		
1/9/2018					<0.001	<0.001
1/10/2018	<0.001			<0.001		
1/11/2018		0.0001 (J)	0.0002 (J)			
7/9/2018					<0.001	
7/10/2018	<0.001					<0.001
7/11/2018		<0.001	<0.001	<0.001		
8/27/2019	<0.001	<0.001	0.00011 (J)	<0.001	<0.001	<0.001
10/8/2019		9.8E-05 (J)		<0.001	<0.001	<0.001
10/9/2019	5.4E-05 (J)		0.00014 (J)			
Mean	0.0008104	0.0006328	0.000435	0.001	0.000813	0.001
Std. Dev.	0.0003997	0.0004742	0.0003929	0	0.0003942	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.4E-05	7E-05	0.00014	0.001	7E-05	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016			<0.001			<0.001
9/1/2016	<0.001	<0.001		<0.001	<0.001	
10/25/2016	<0.001			<0.001	<0.001	
10/26/2016		<0.001	<0.001			<0.001
1/4/2017	<0.001			<0.001	<0.001	<0.001
1/5/2017		<0.001	<0.001			
4/4/2017			<0.001	<0.001	5E-05 (J)	
4/5/2017	6E-05 (J)	0.0001 (J)				
4/6/2017						<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		<0.001	
10/4/2017		0.0001 (J)				0.0001 (J)
1/9/2018					<0.001	
1/10/2018	5E-05 (J)		<0.001	<0.001		
1/11/2018		0.0001 (J)				6E-05 (J)
7/9/2018				<0.001		
7/10/2018	<0.001		<0.001		<0.001	
7/11/2018		<0.001				<0.001
7/30/2019			0.00011 (J)			
8/27/2019			<0.001			8.6E-05 (J)
8/28/2019	<0.001	6.6E-05 (J)		<0.001	<0.001	
10/8/2019	<0.001				<0.001	
10/9/2019		7.6E-05 (J)	<0.001	<0.001		<0.001
Mean	0.000811	0.0005442	0.0009191	0.001	0.000905	0.0007246
Std. Dev.	0.0003985	0.0004806	0.0002683	0	0.0003004	0.0004435
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6E-05	7.6E-05	0.001	0.001	0.001	8.6E-05

Confidence Interval

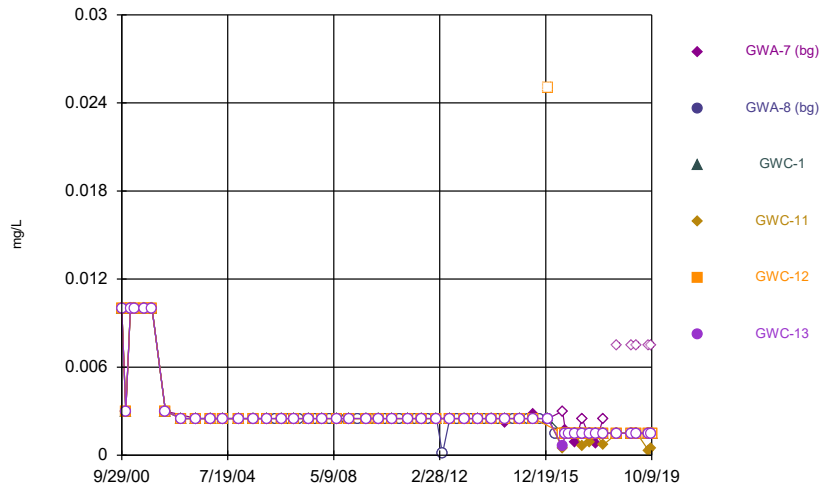
Constituent: Thallium (mg/L) Analysis Run 3/19/2020 2:09 PM View: Confidence Interval

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016			<0.001	<0.001
8/31/2016	<0.001			
9/1/2016		<0.001		
10/26/2016		<0.001	<0.001	<0.001
10/27/2016	<0.001			
1/3/2017			<0.001	
1/5/2017				<0.001
1/6/2017	<0.001	<0.001		
4/4/2017		7E-05 (J)		
4/6/2017	<0.001		<0.001	<0.001
7/12/2017	<0.001	<0.001	<0.001	<0.001
10/3/2017			<0.001	<0.001
10/4/2017	<0.001	<0.001		
1/9/2018				<0.001
1/10/2018			<0.001	
1/11/2018	<0.001	7E-05 (J)		
7/10/2018			<0.001	<0.001
7/11/2018	<0.001	<0.001		
8/27/2019		<0.001		<0.001
8/28/2019	<0.001		5.7E-05 (J)	
10/9/2019	<0.001	<0.001	0.00031 (J)	
Mean	0.001	0.000814	0.0008367	0.001
Std. Dev.	0	0.0003921	0.0003494	0
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.001	7E-05	0.00031	0.001

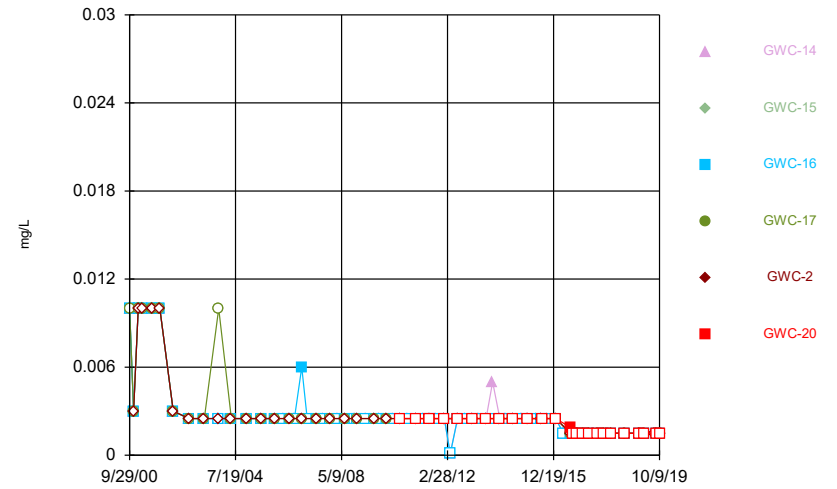
Time Series Plots (through October 2019)

Antimony



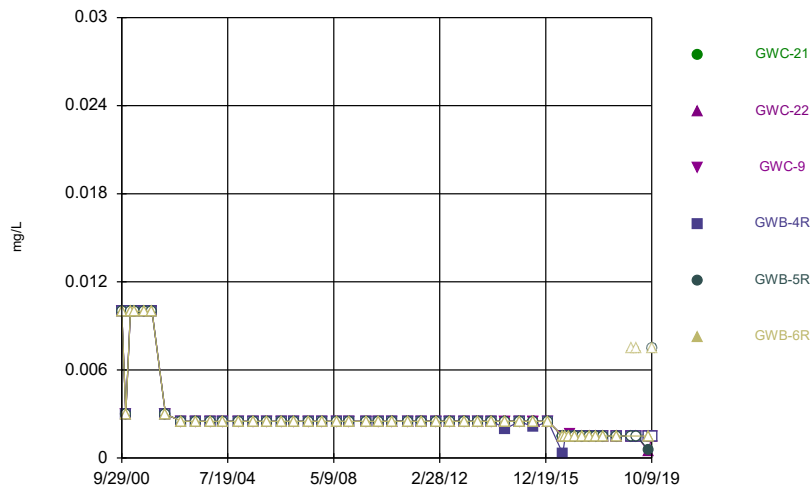
Time Series Analysis Run 3/31/2020 10:52 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Antimony



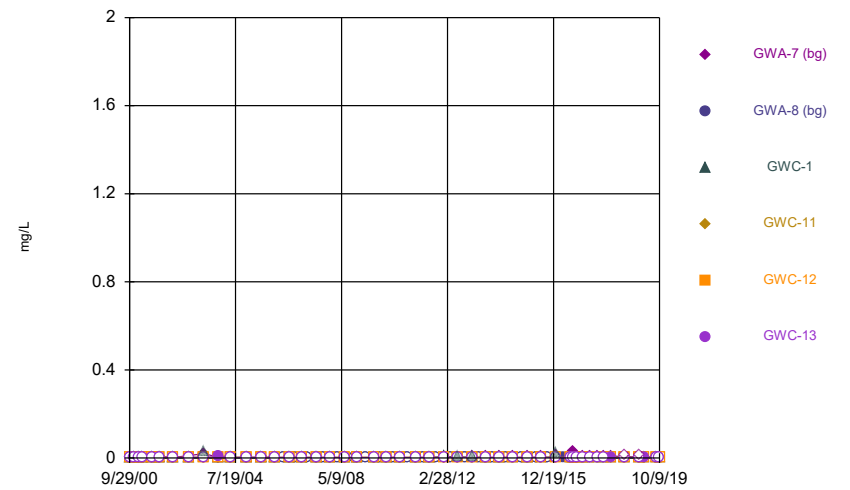
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Antimony



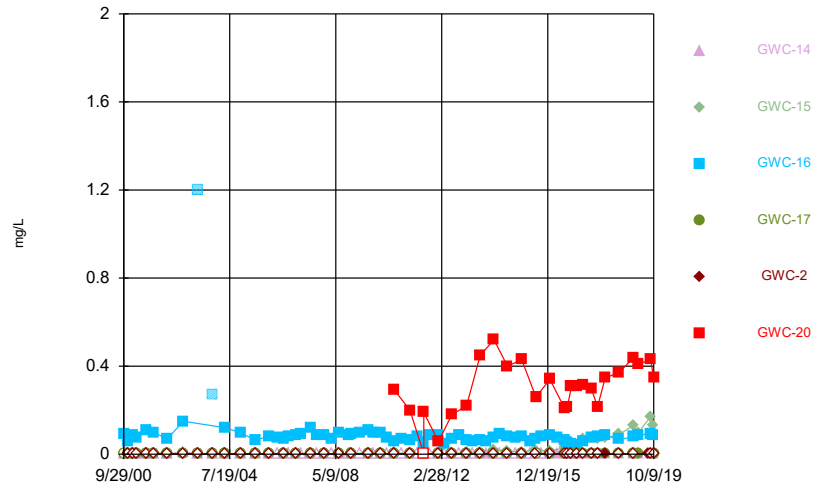
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Arsenic

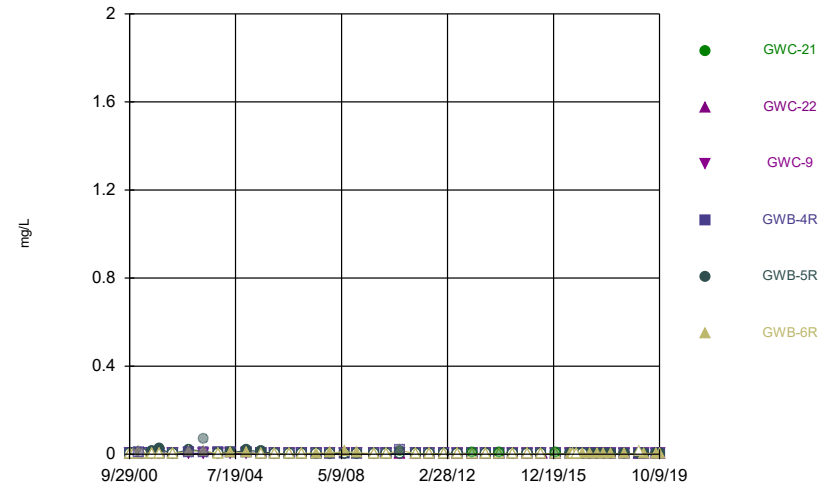


Time Series Analysis Run 3/31/2020 10:53 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

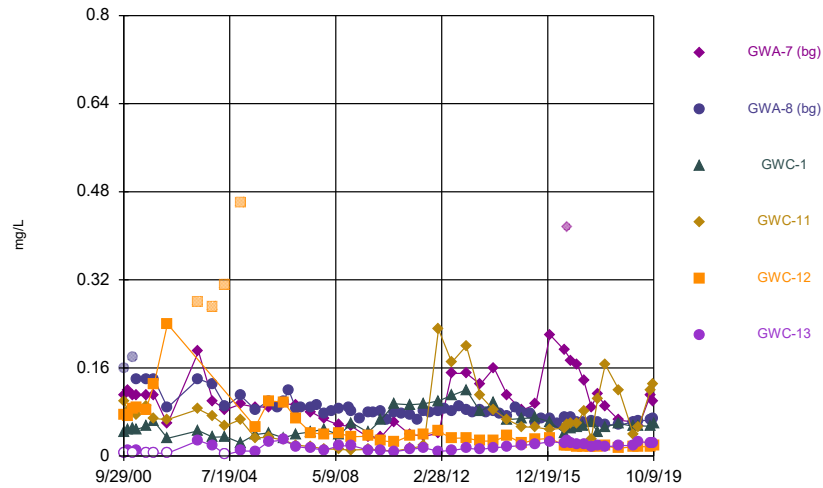
Arsenic



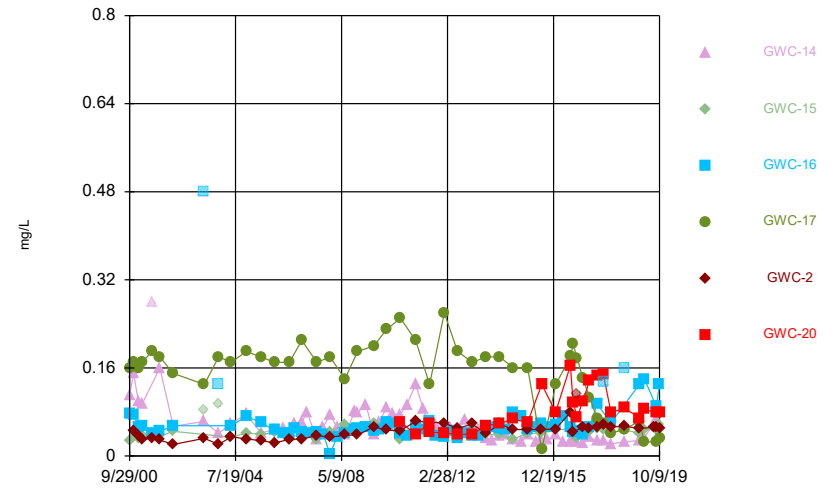
Arsenic



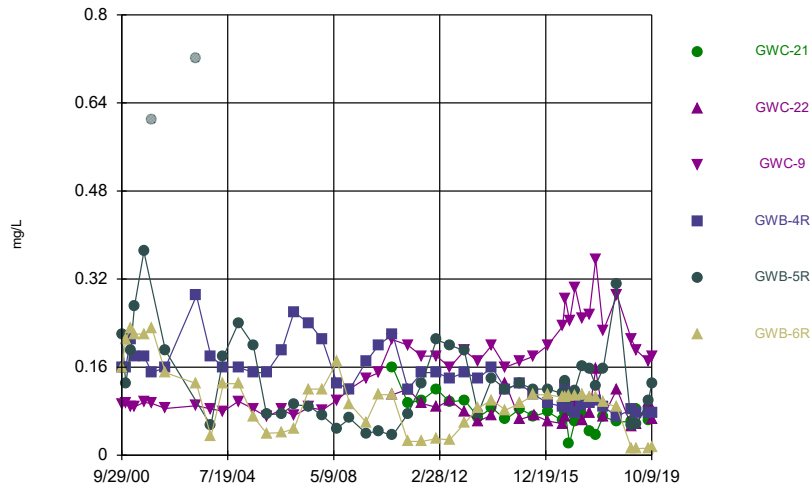
Barium



Barium

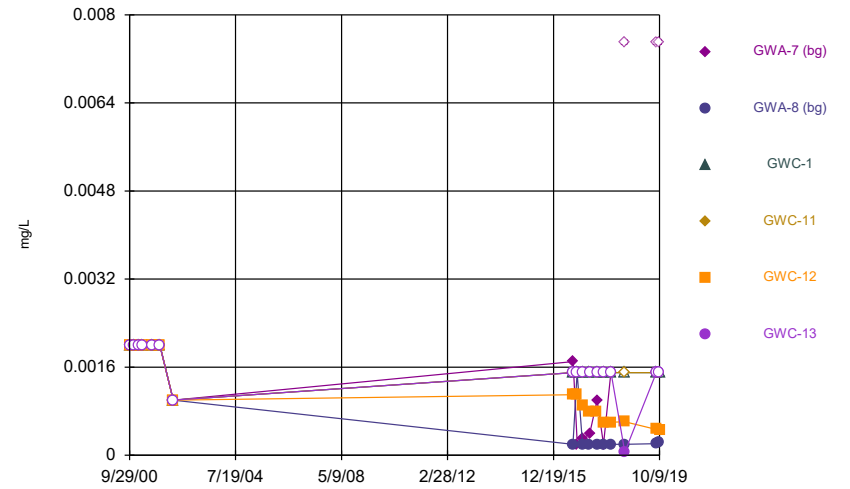


Barium



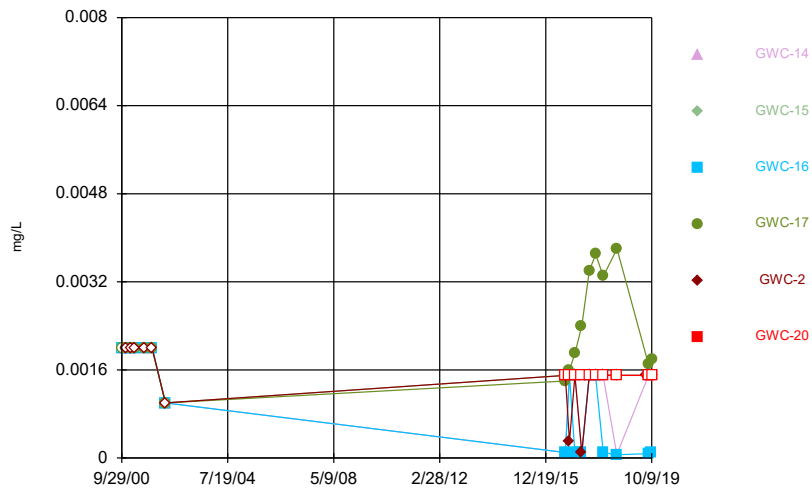
Time Series Analysis Run 3/31/2020 10:53 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Beryllium



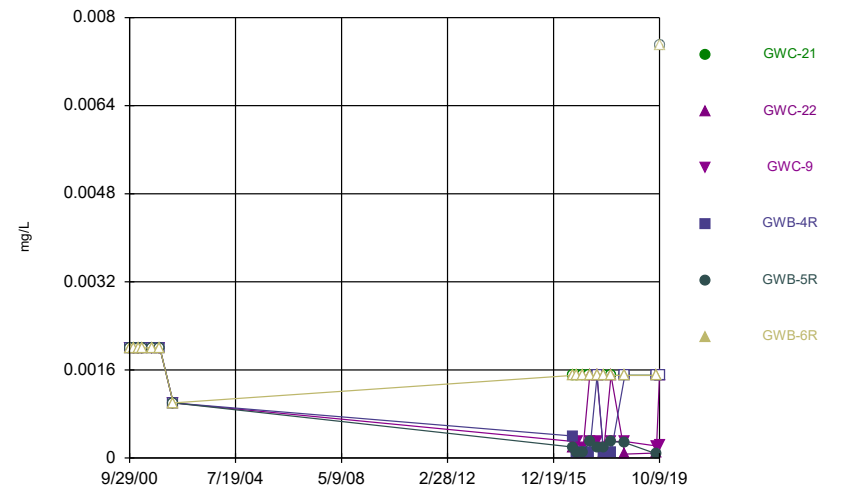
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Beryllium



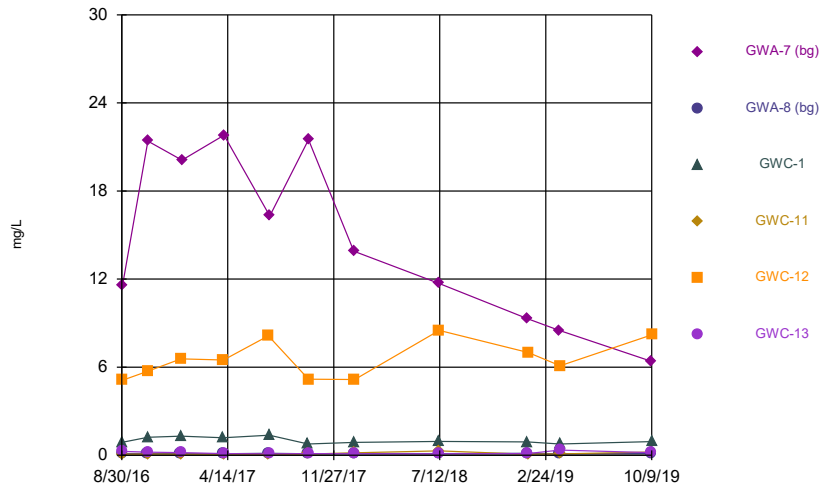
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Beryllium



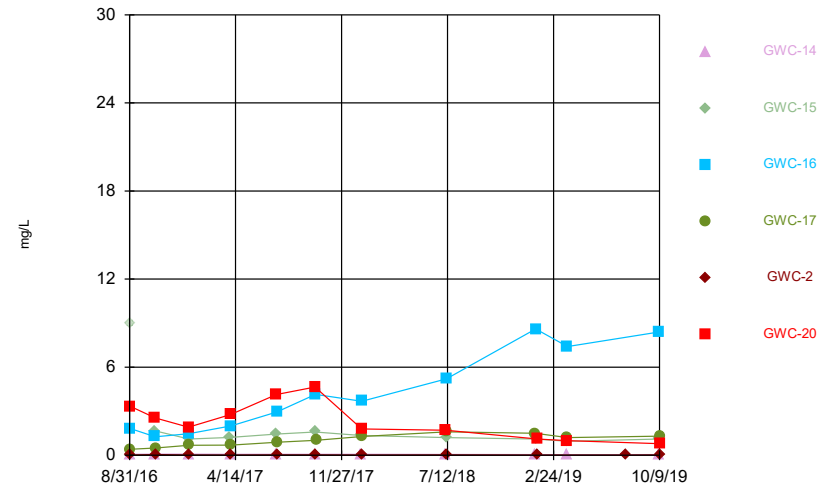
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Boron



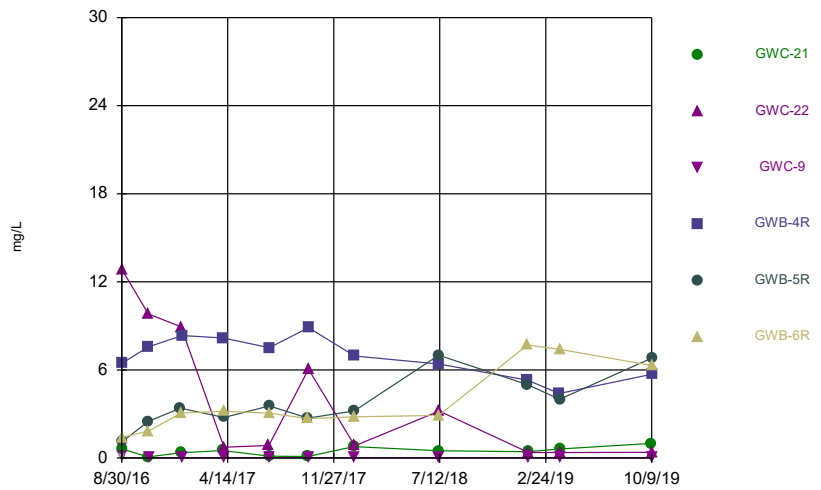
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Boron



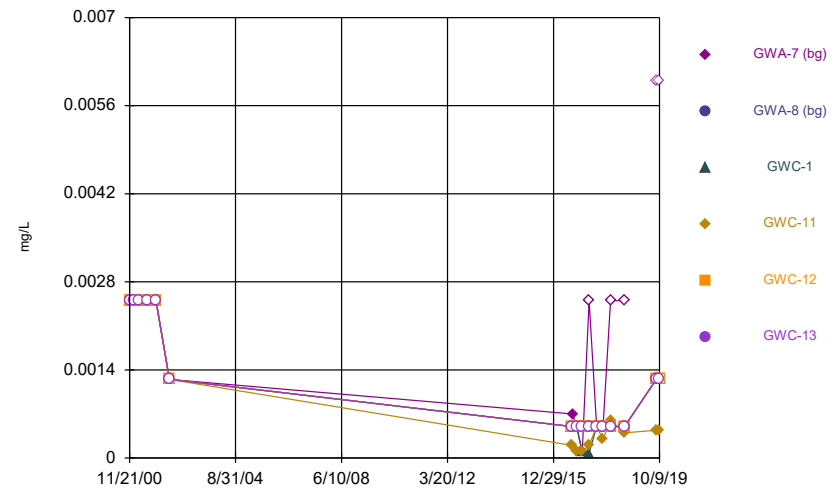
Time Series Analysis Run 3/31/2020 10:53 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Boron



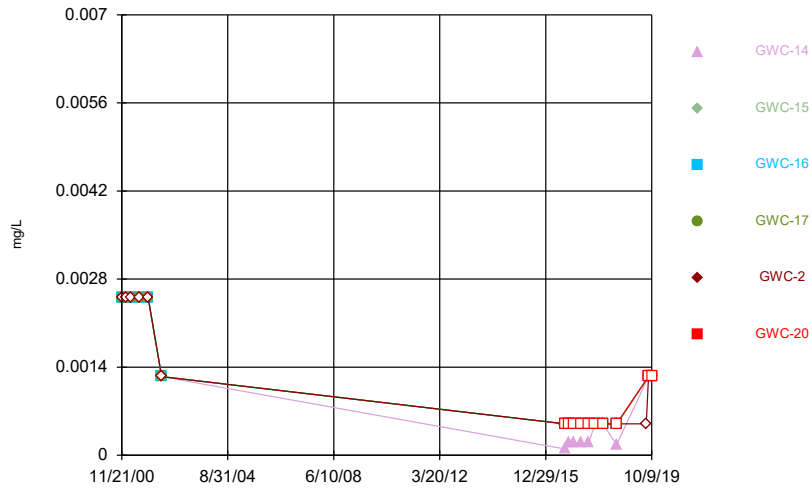
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cadmium



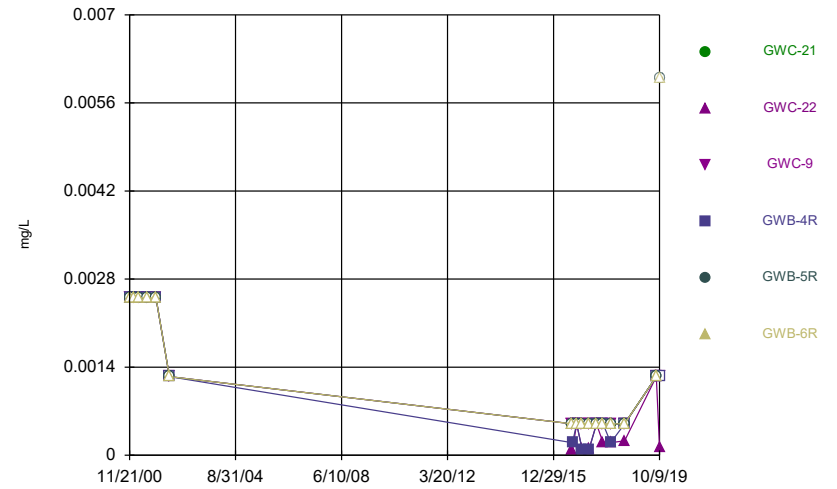
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cadmium



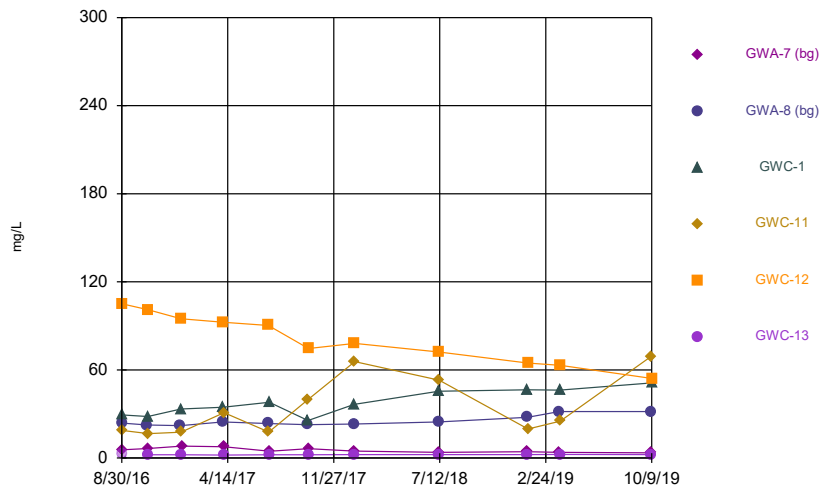
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cadmium



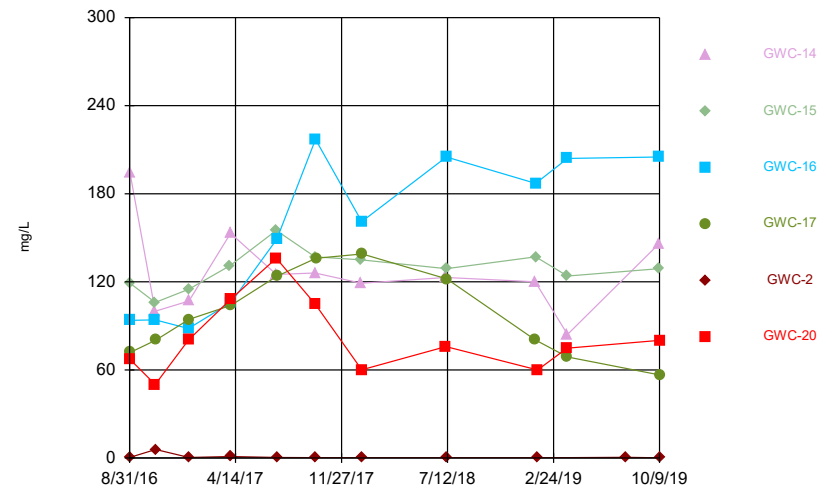
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium



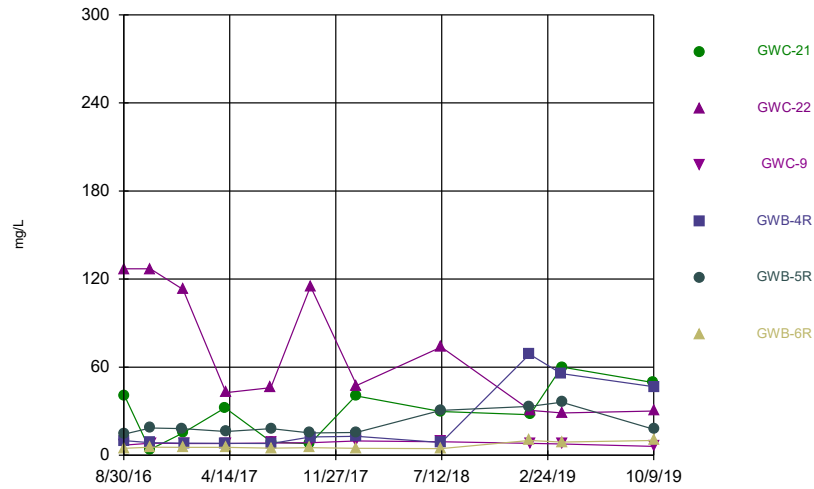
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium



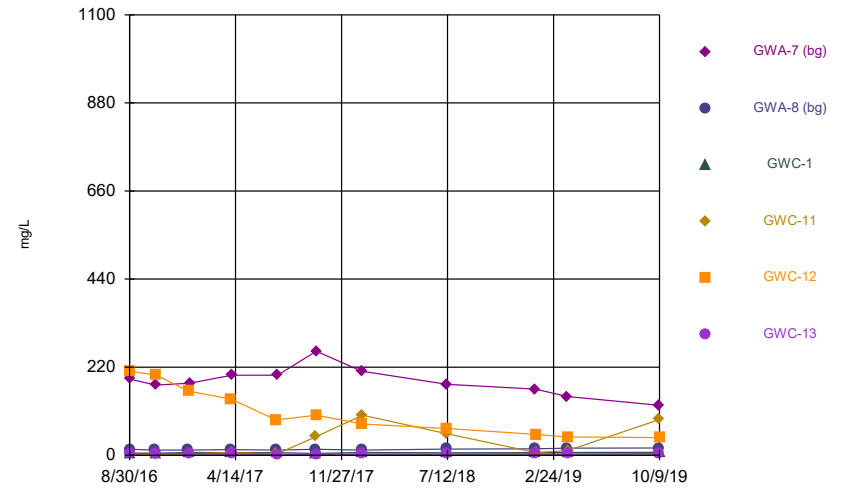
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Calcium



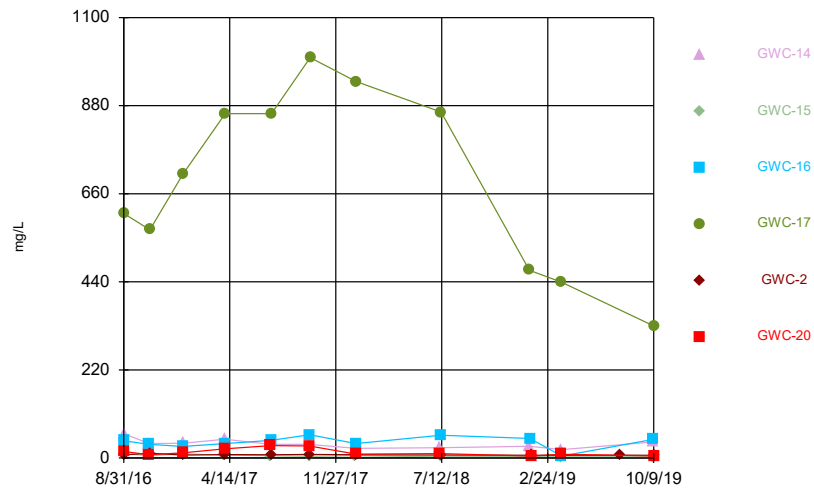
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chloride



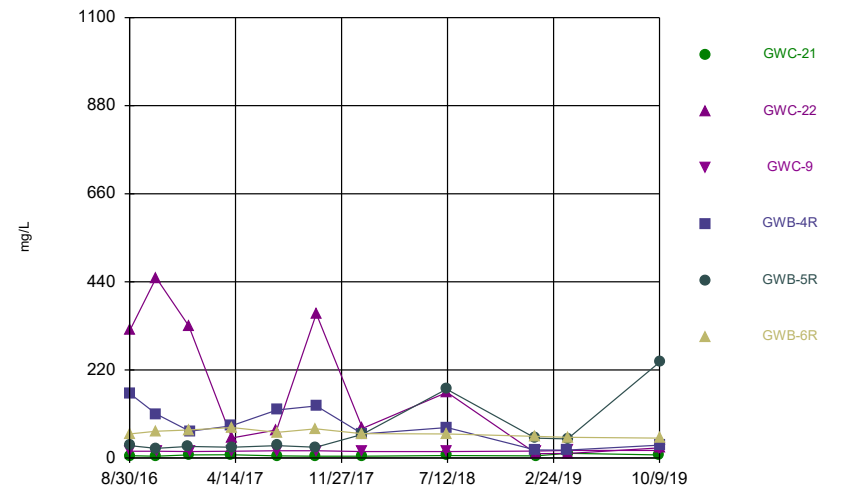
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chloride



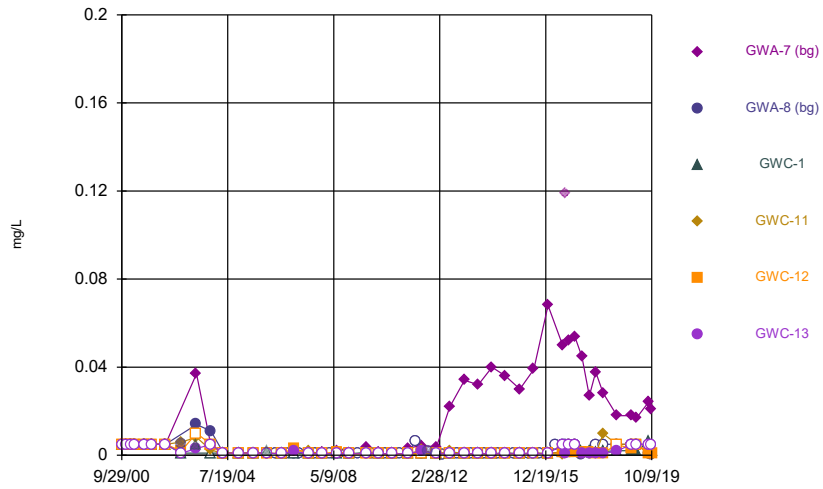
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chloride



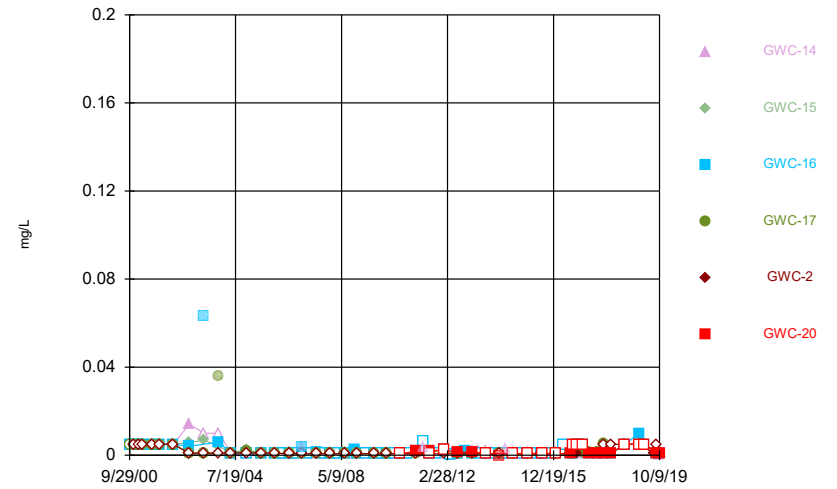
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chromium



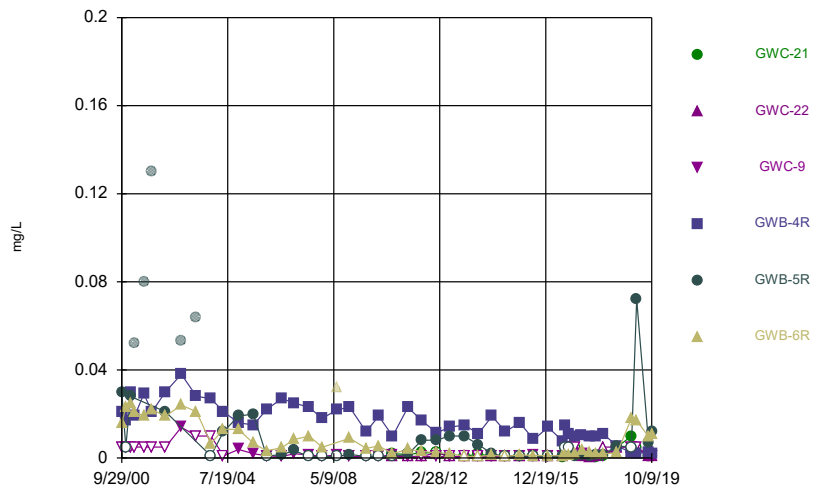
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chromium



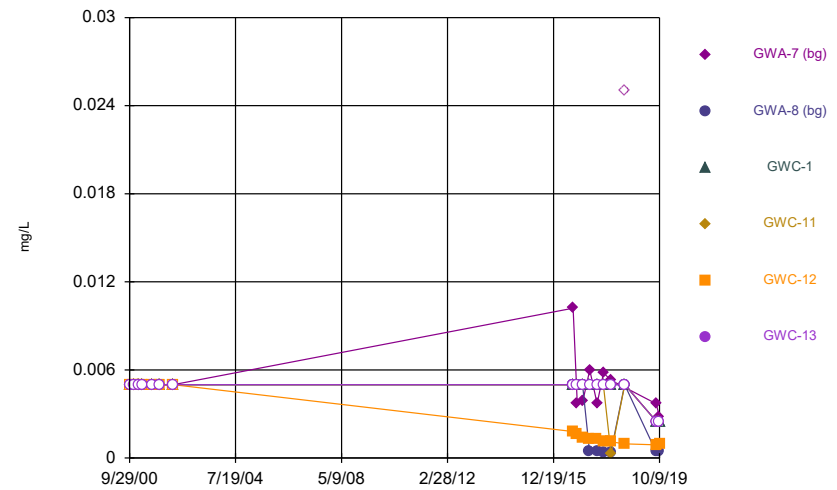
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Chromium



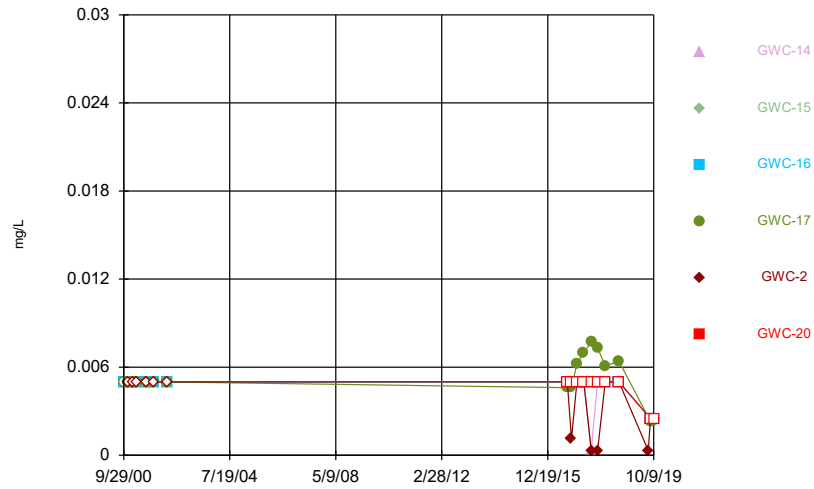
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cobalt



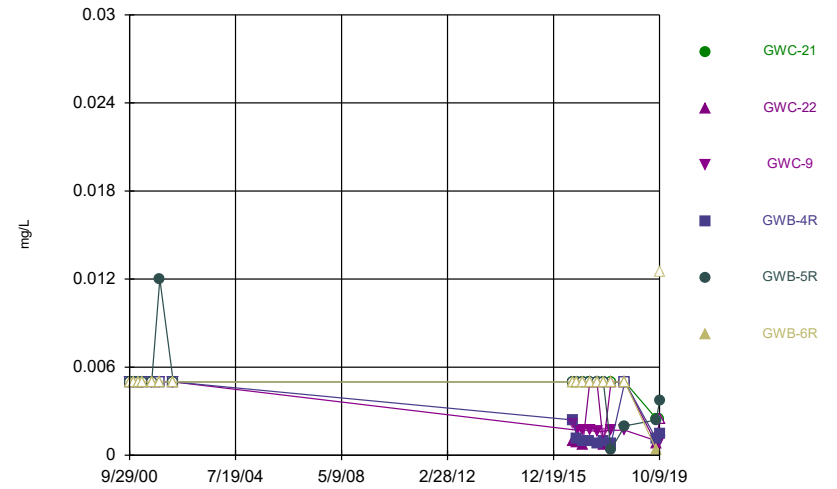
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cobalt



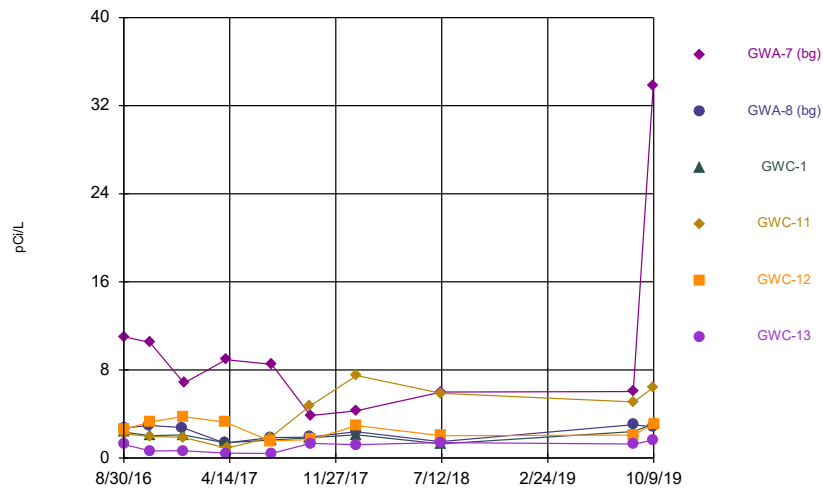
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Cobalt



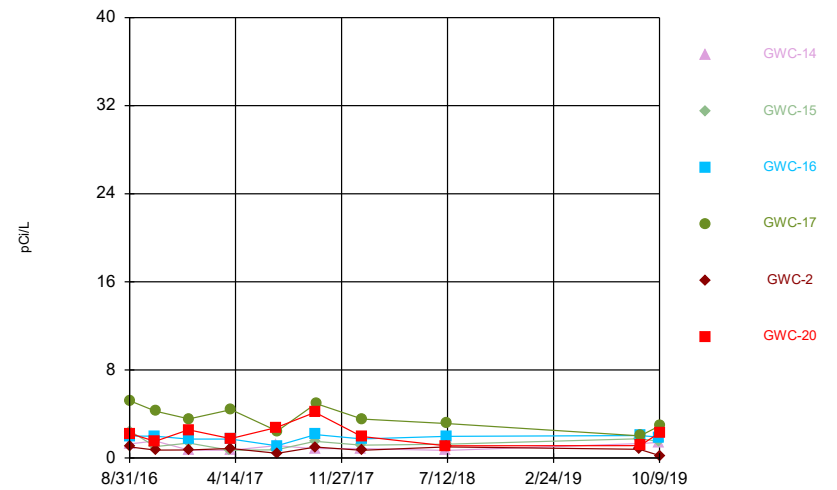
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Combined Radium 226 + 228



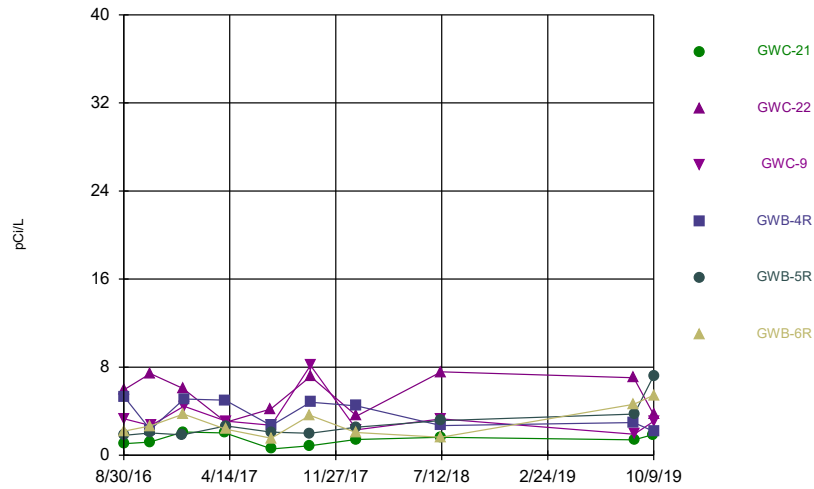
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Combined Radium 226 + 228



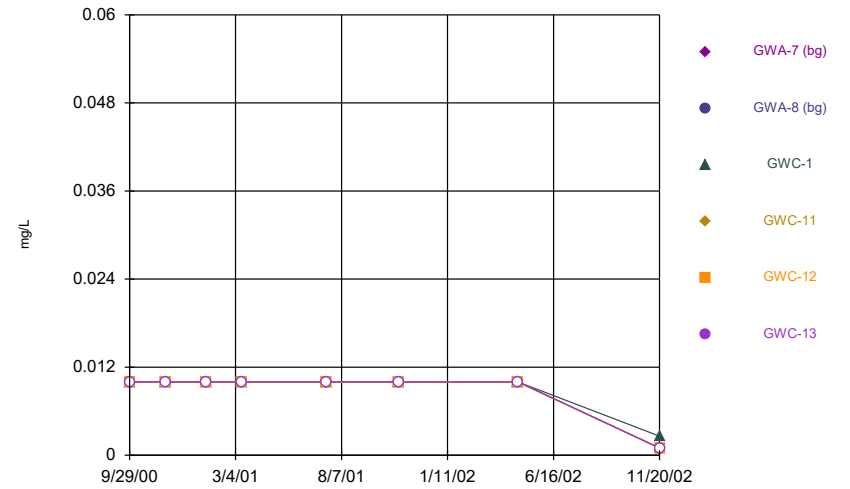
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Combined Radium 226 + 228



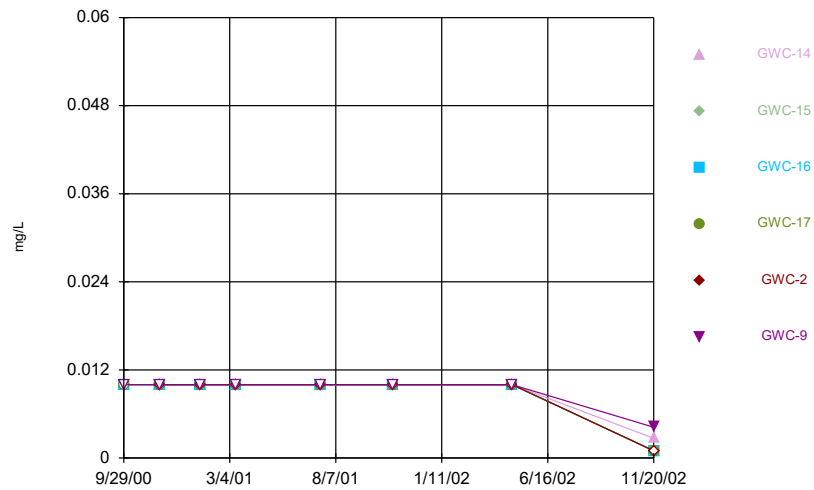
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Copper



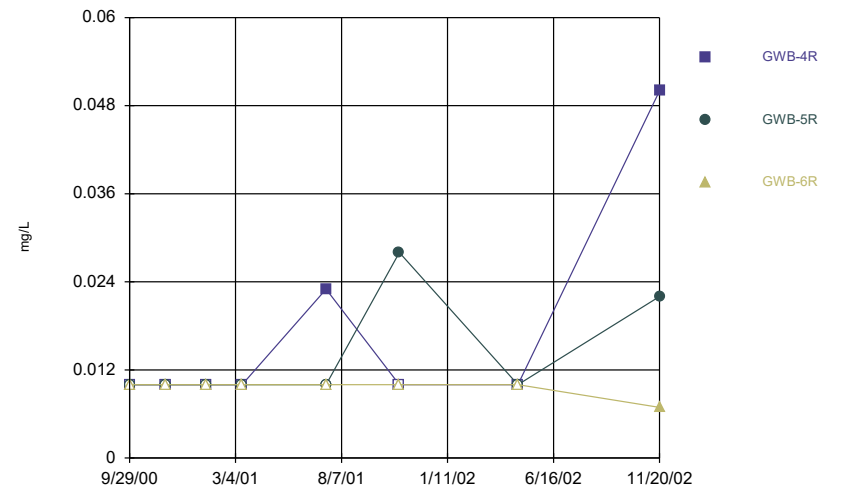
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Copper



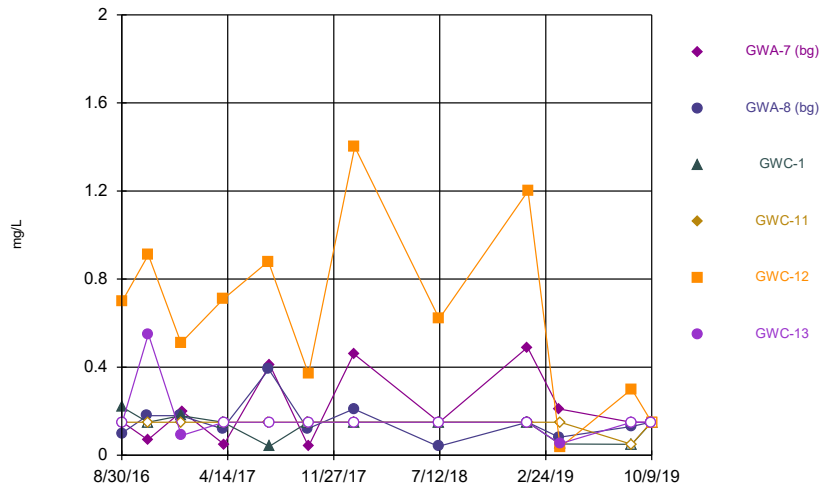
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Copper



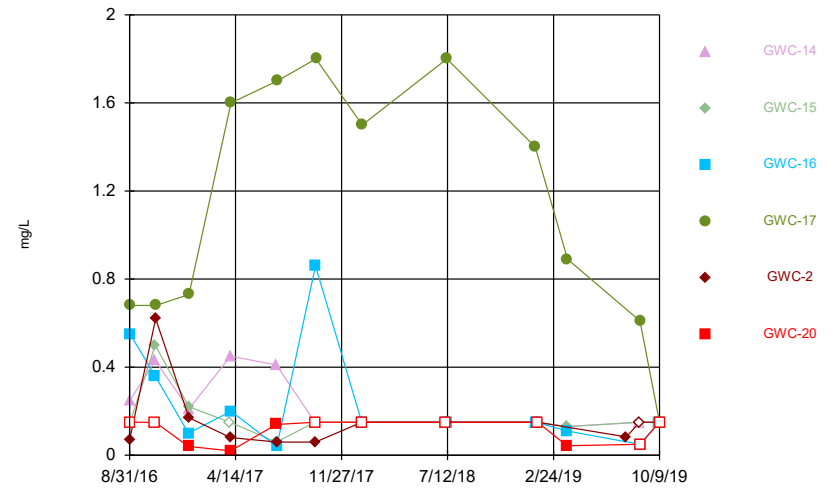
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Fluoride



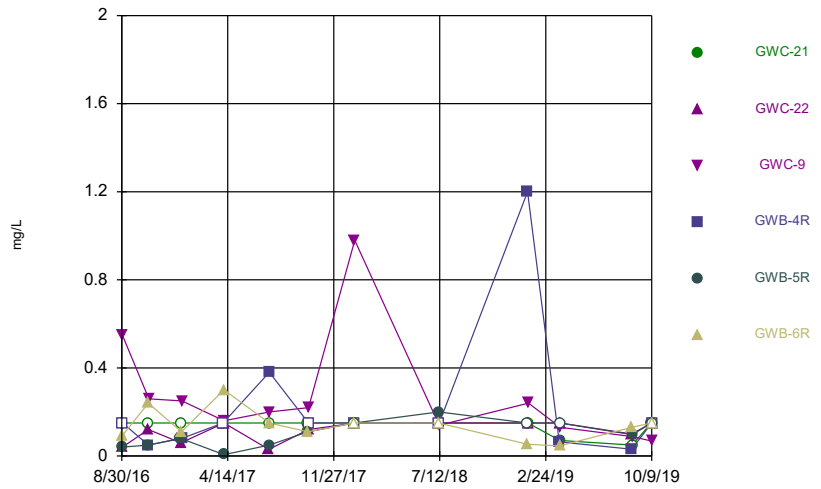
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Fluoride



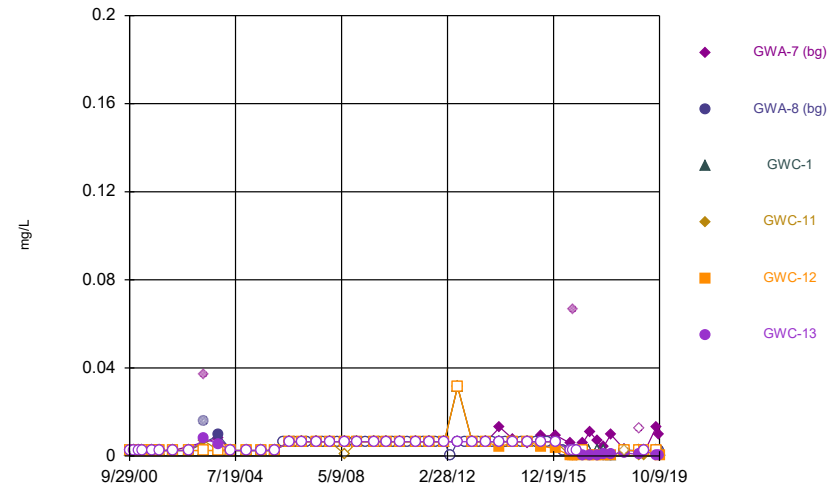
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Fluoride



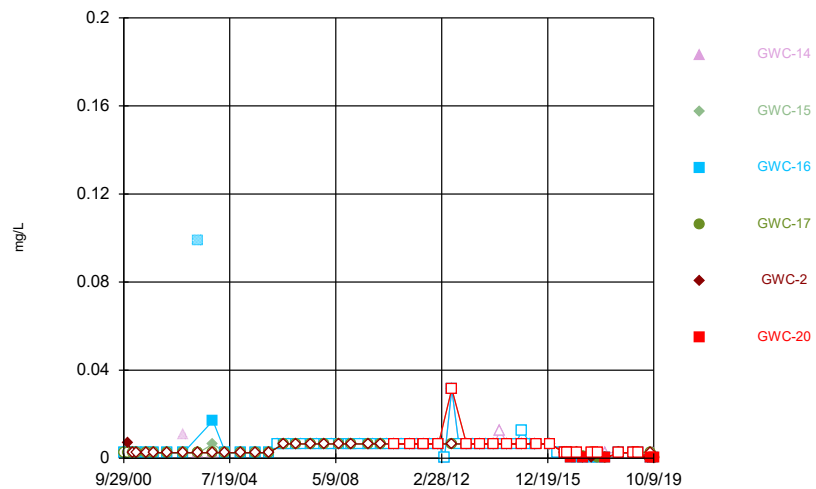
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lead



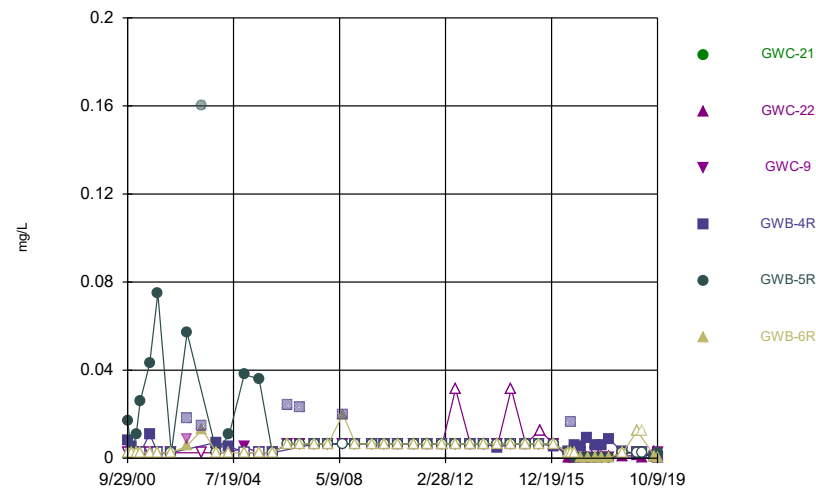
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lead



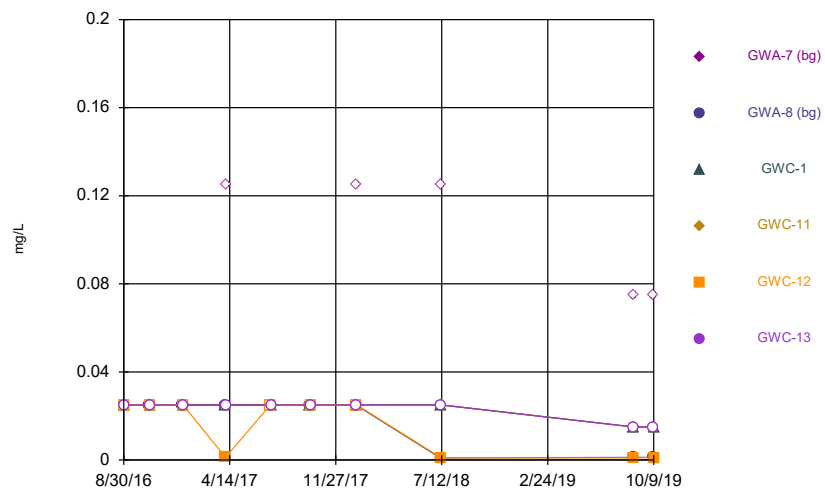
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lead



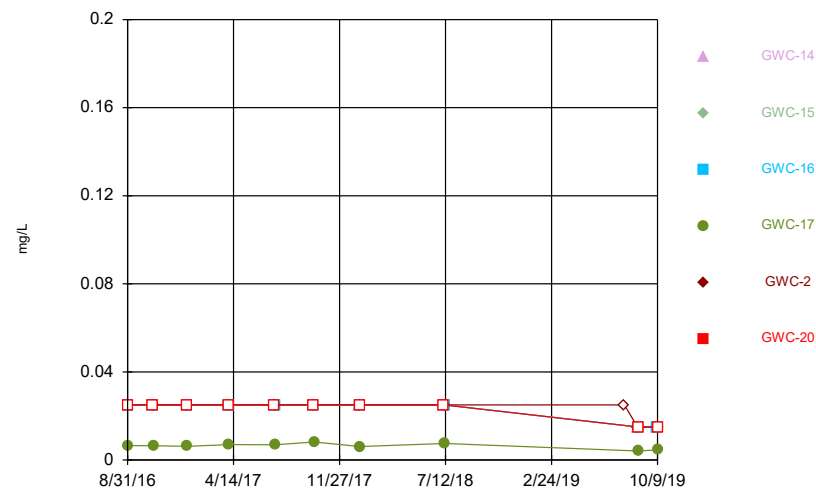
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lithium



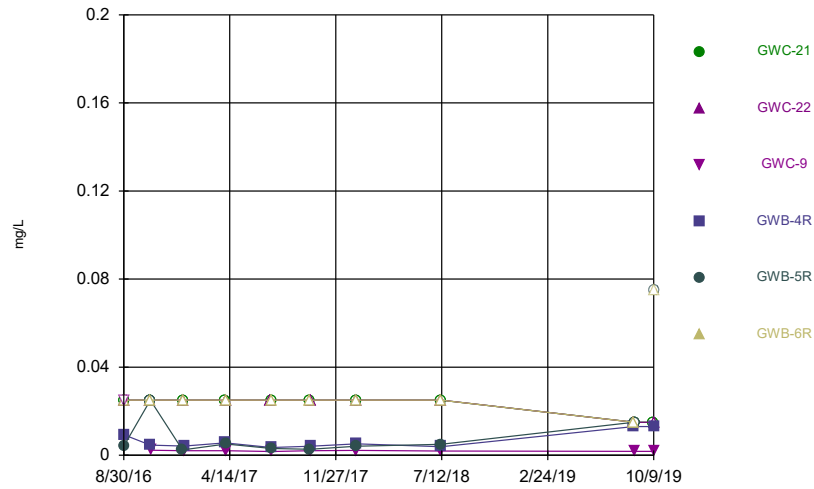
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lithium



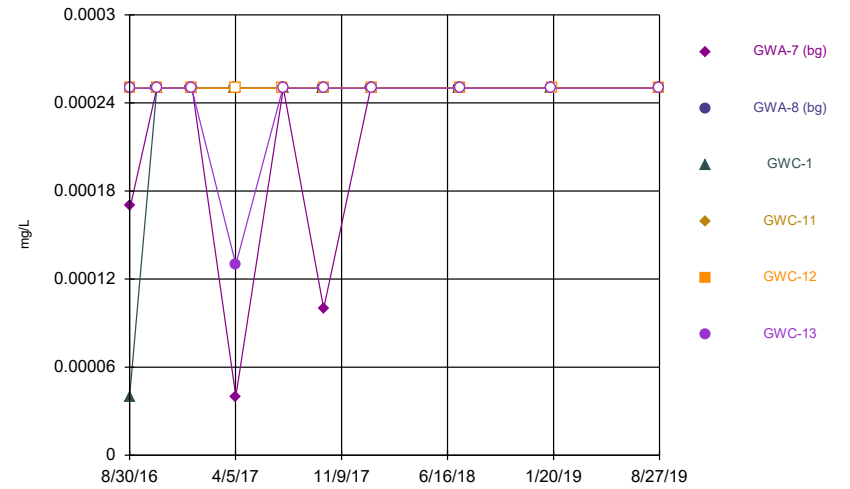
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Lithium



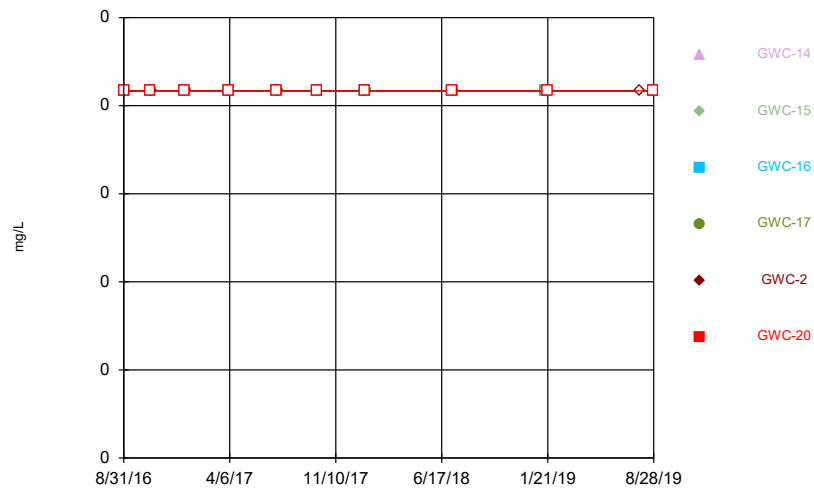
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Mercury



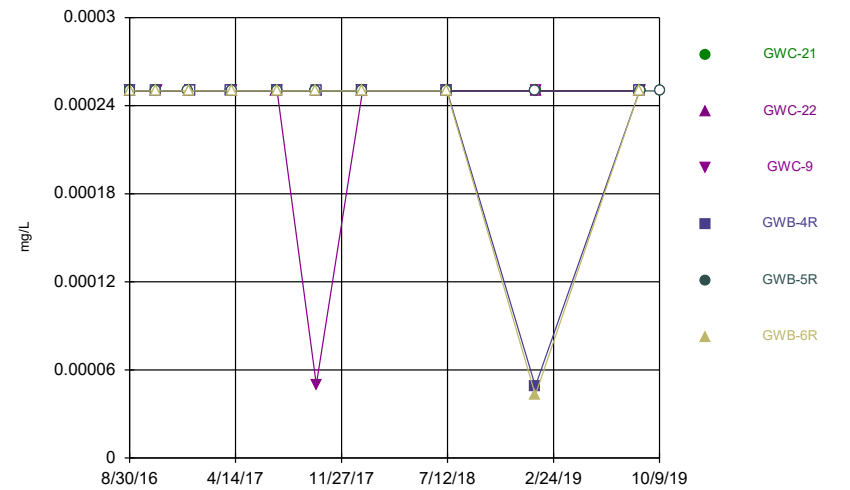
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Mercury



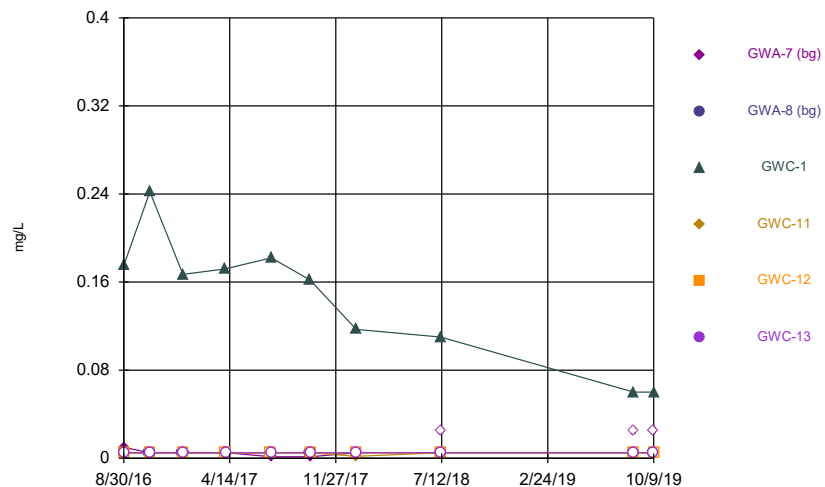
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Mercury



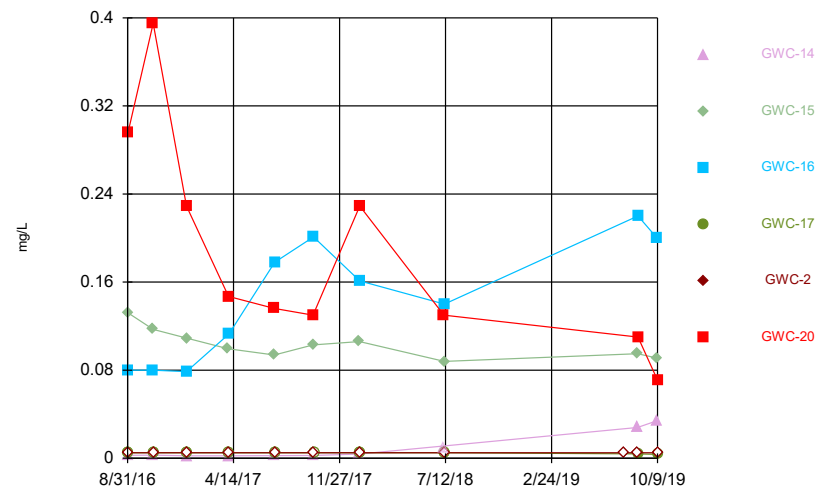
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Molybdenum



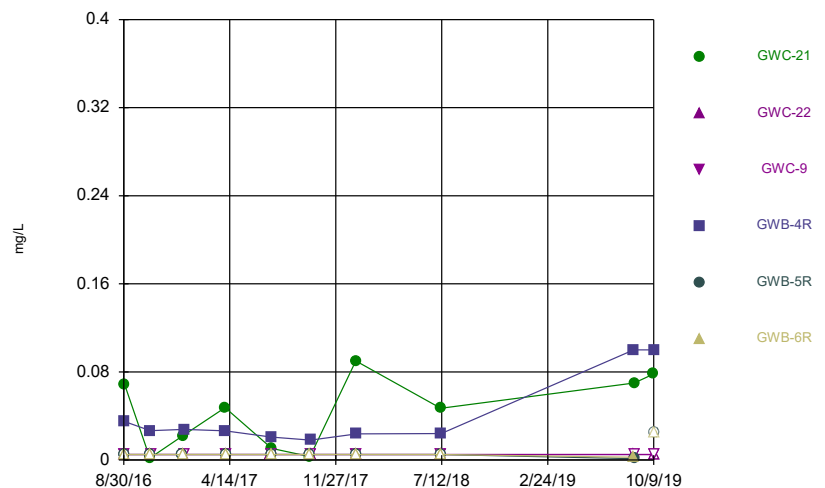
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Molybdenum



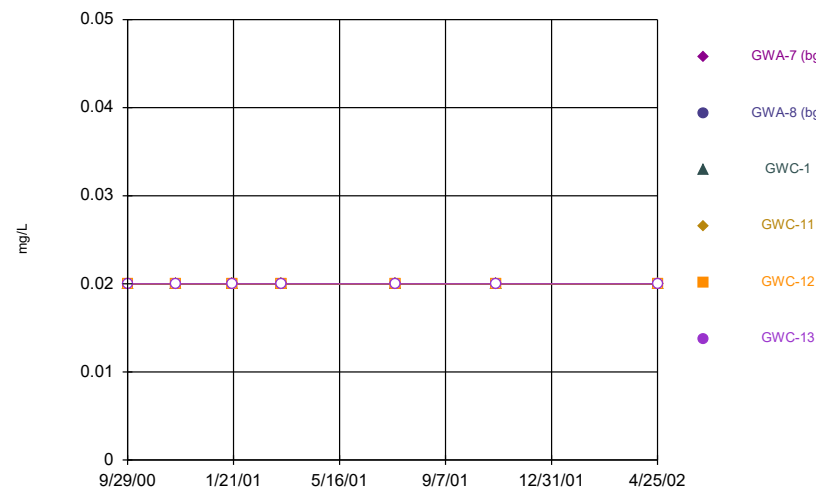
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Molybdenum



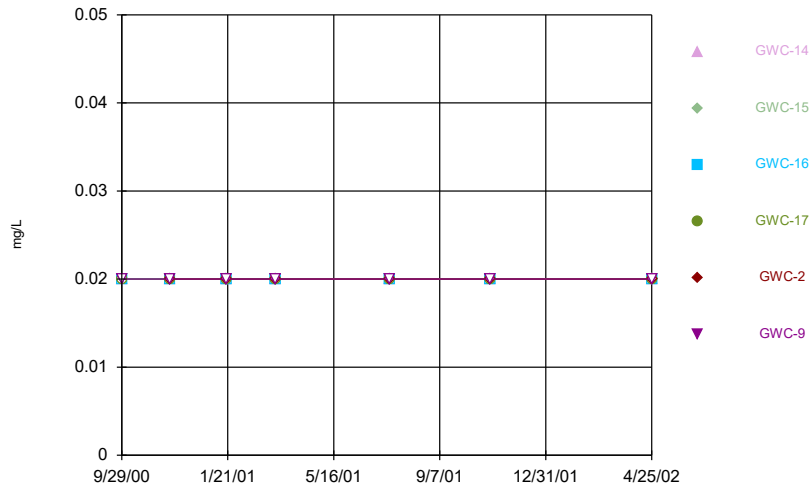
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Nickel



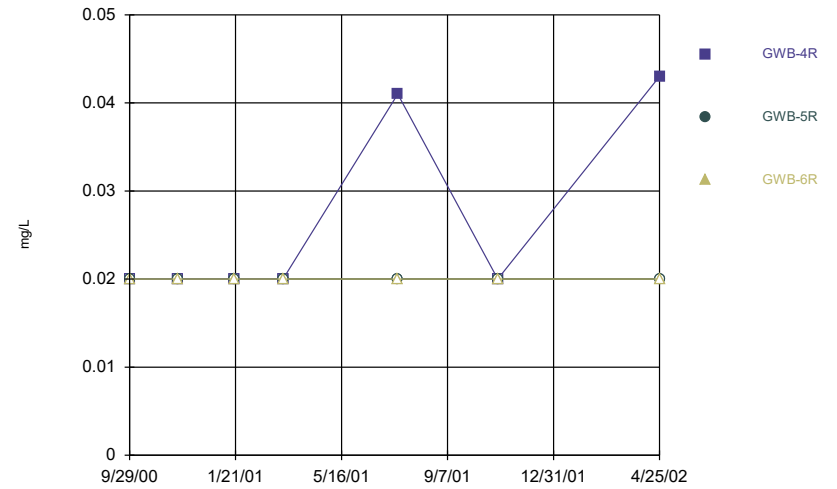
Time Series Analysis Run 3/31/2020 10:54 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Nickel



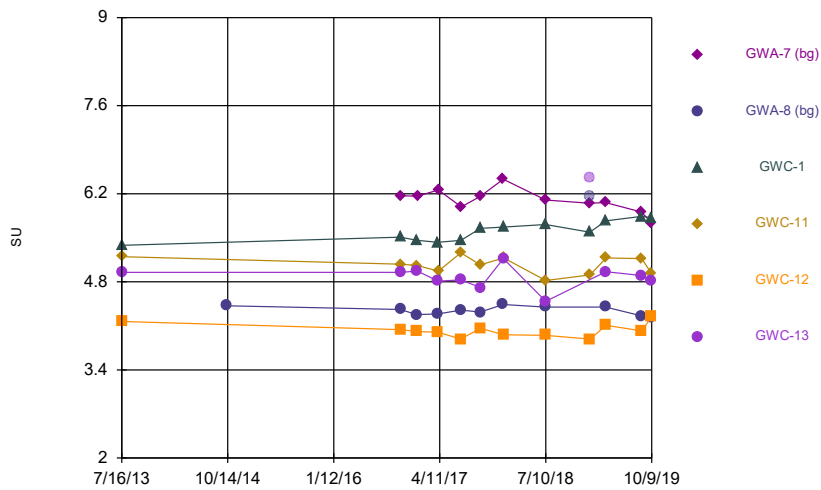
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Nickel



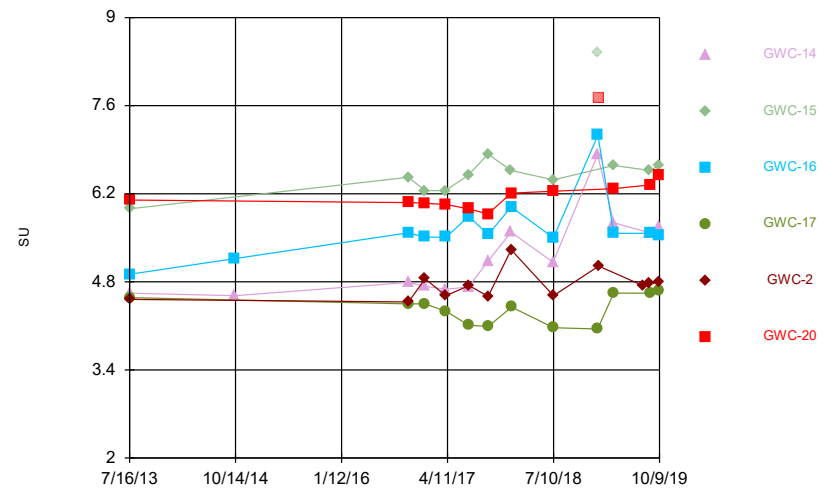
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pH



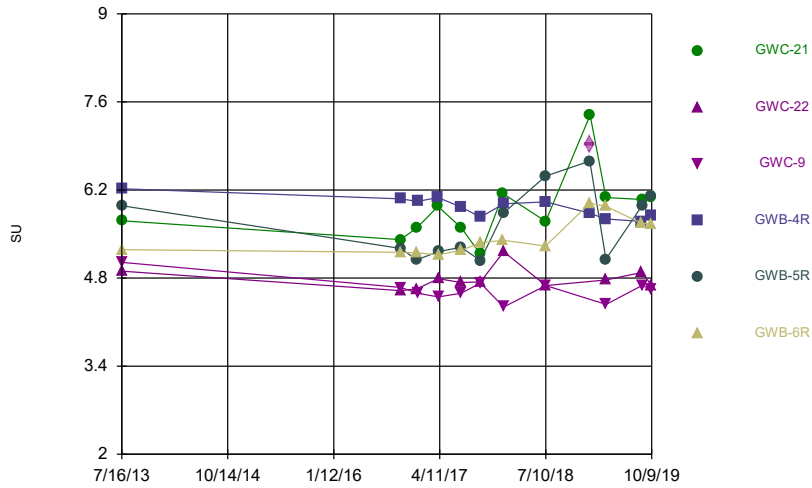
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pH



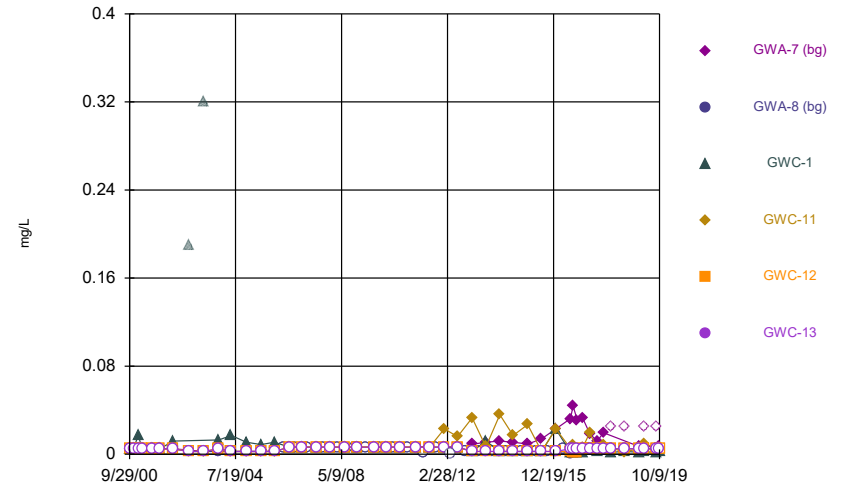
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pH



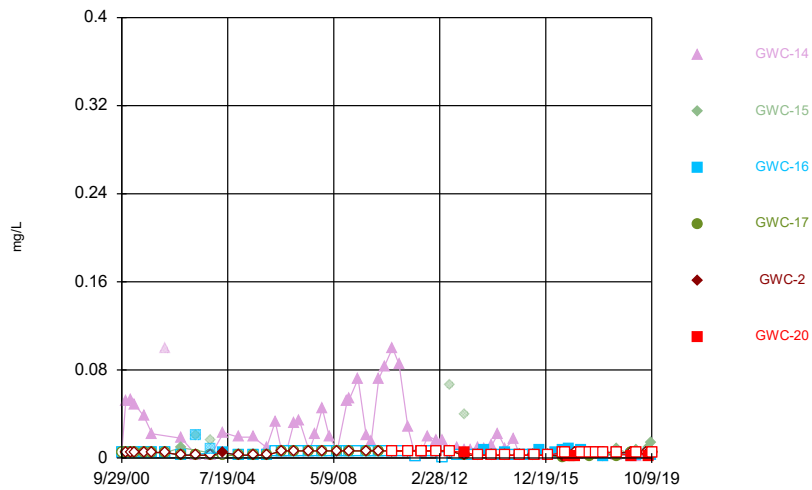
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Selenium



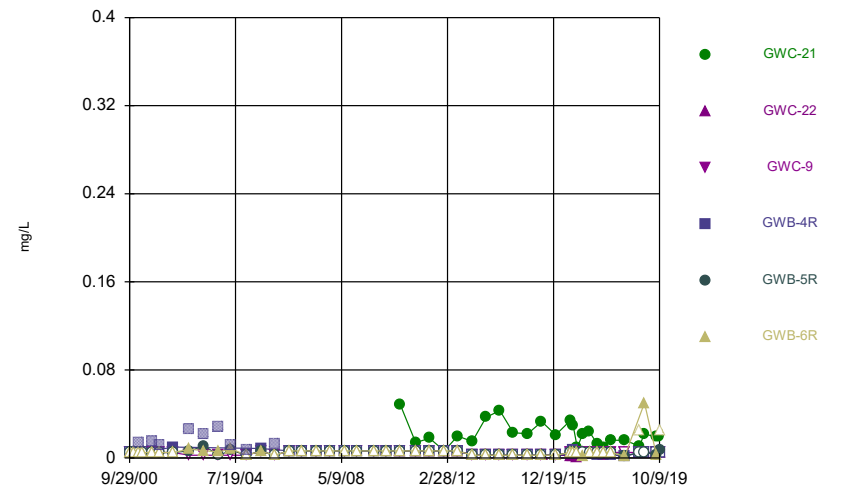
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Selenium



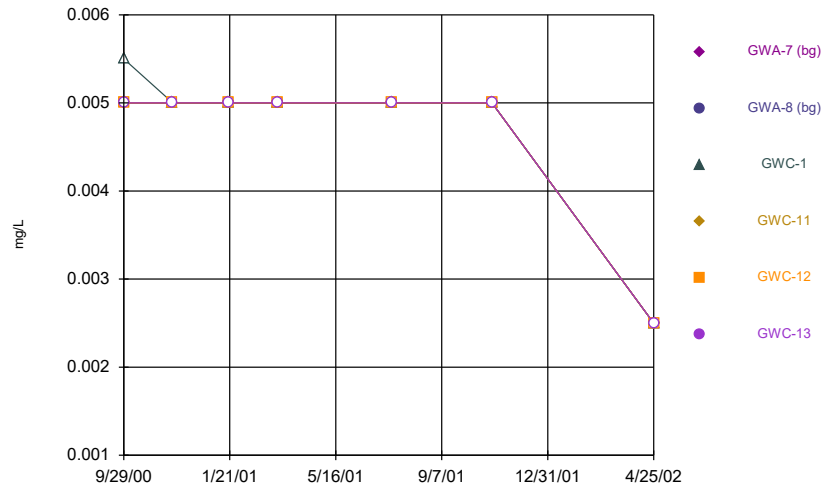
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Selenium



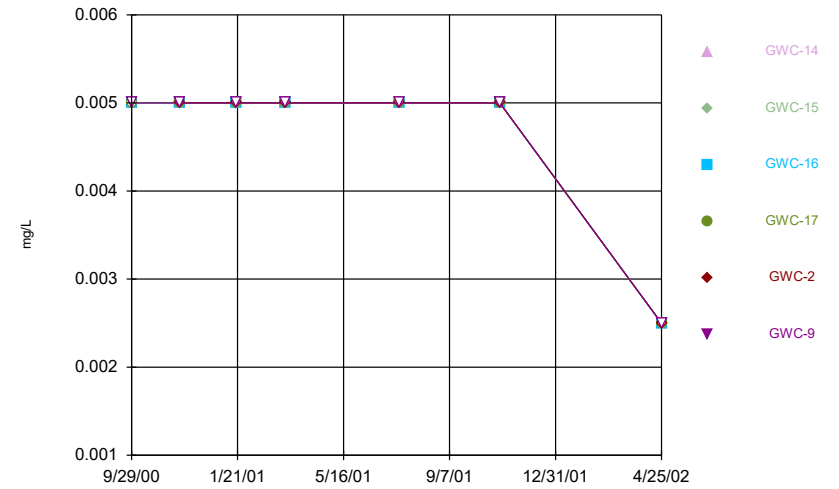
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Silver



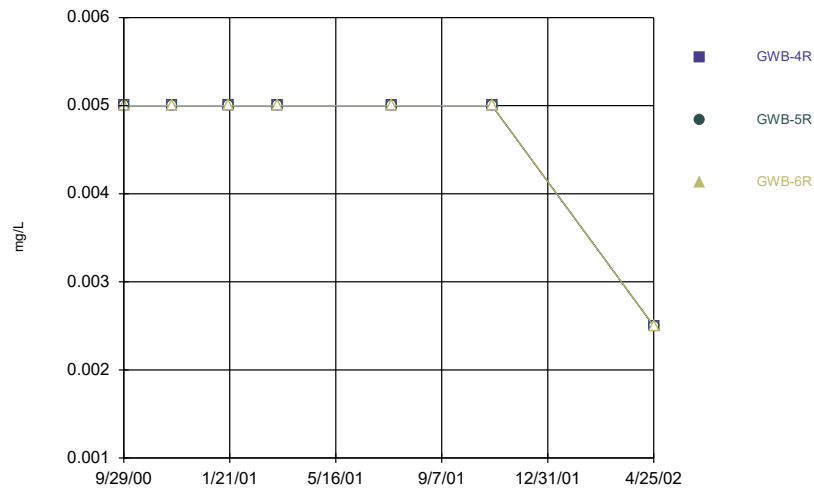
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Silver



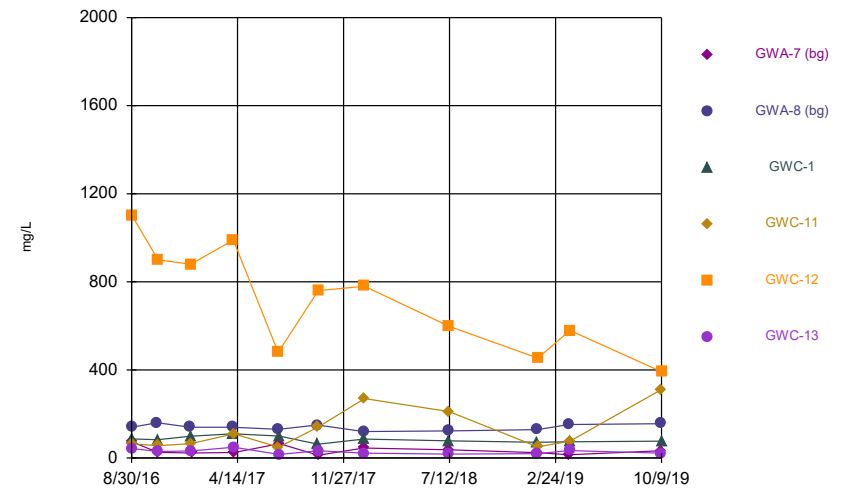
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Silver



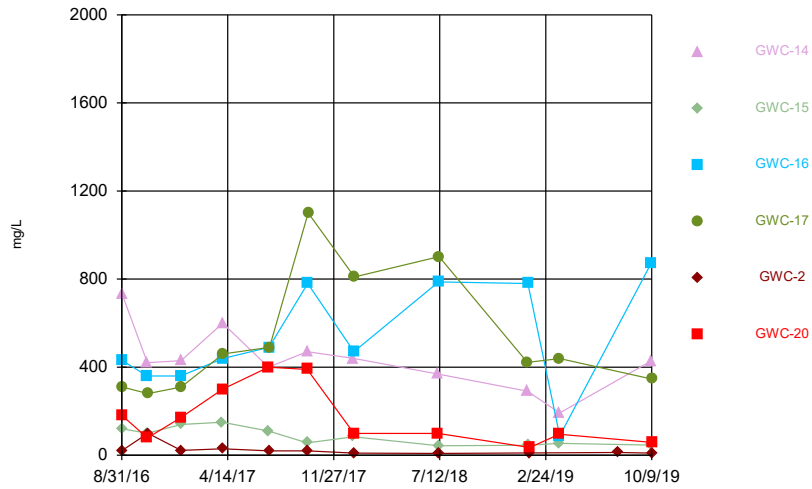
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Sulfate



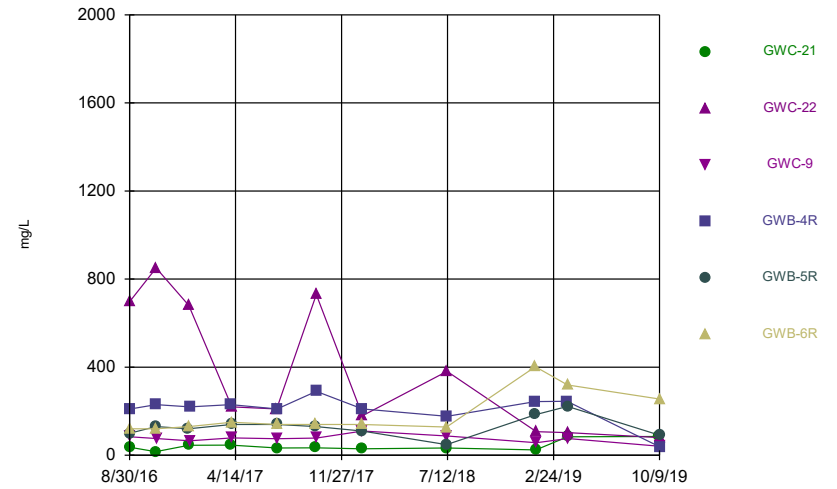
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Sulfate



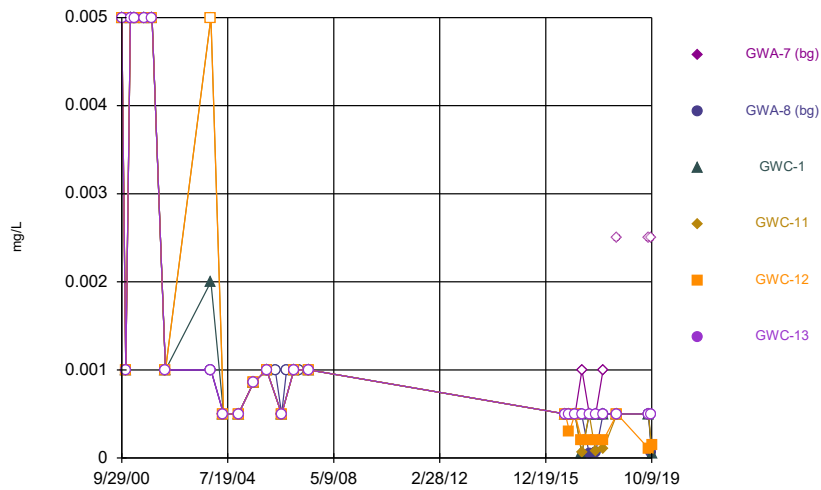
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Sulfate



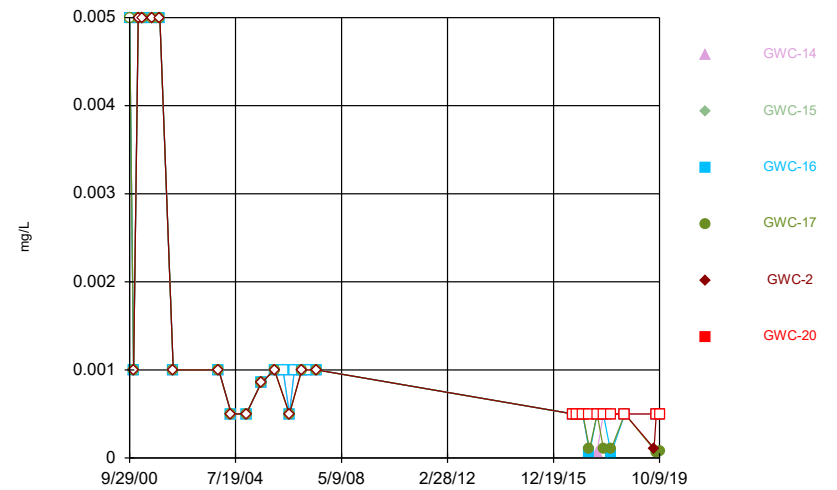
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Thallium



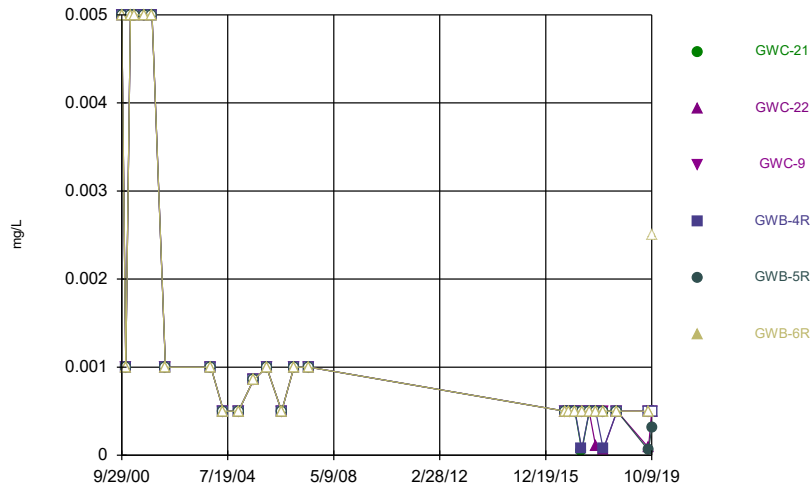
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Thallium



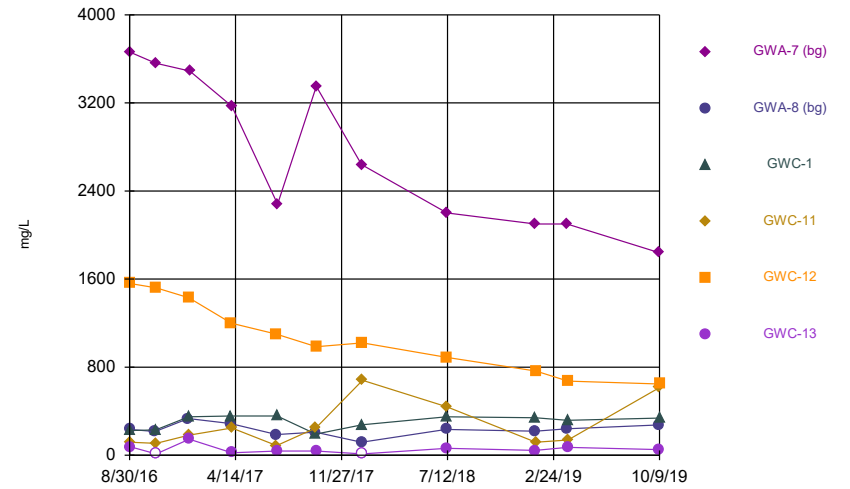
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Thallium



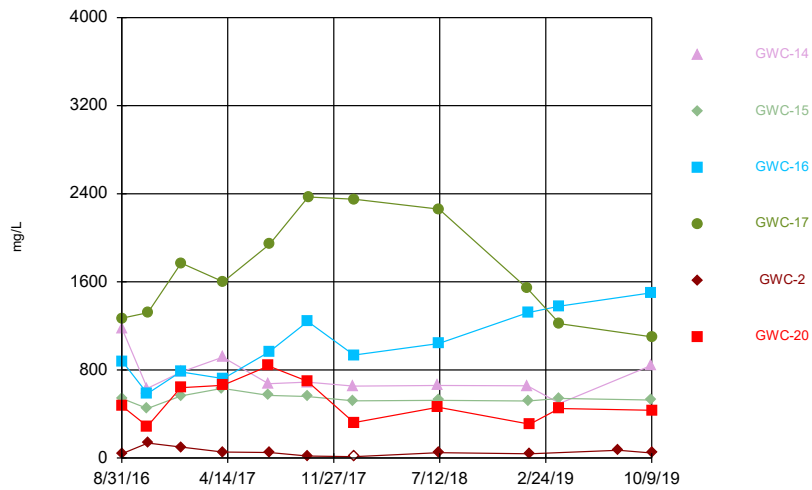
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids



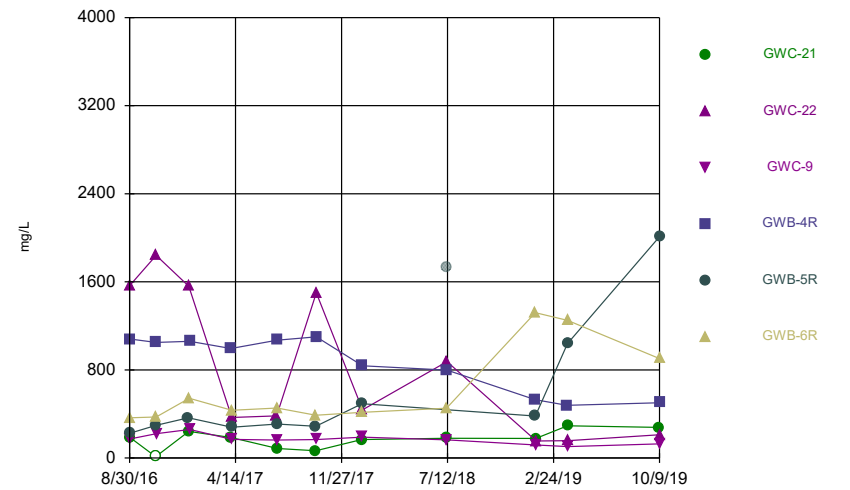
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids



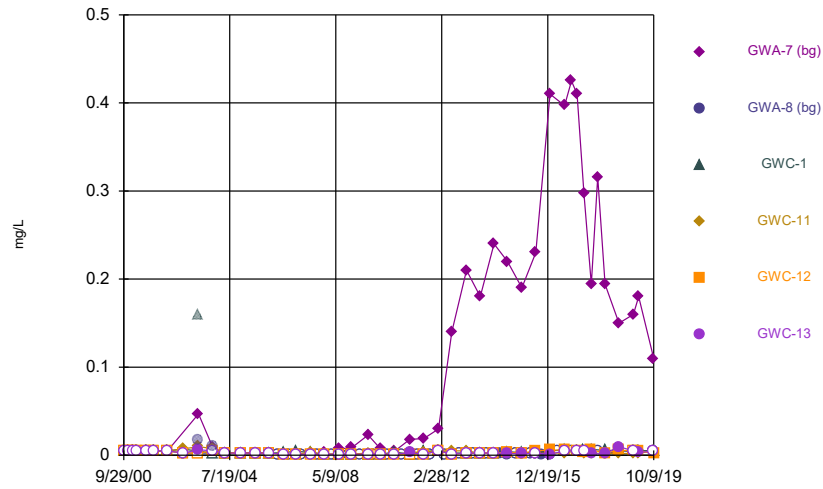
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Total Dissolved Solids



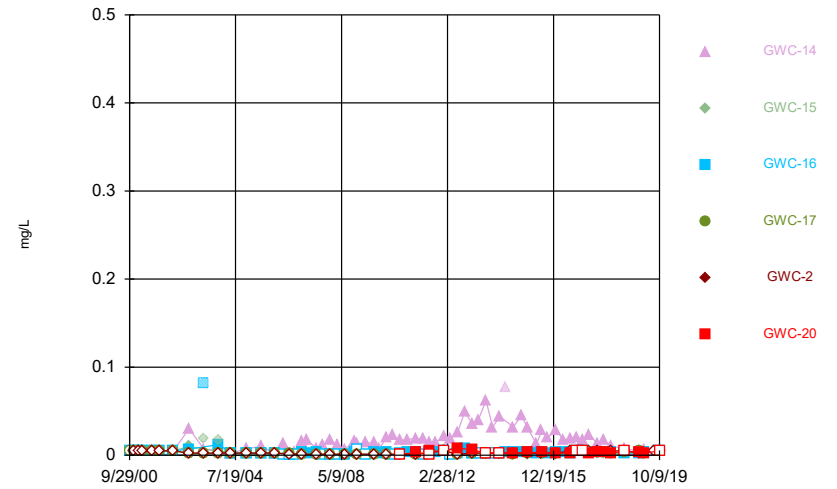
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Vanadium



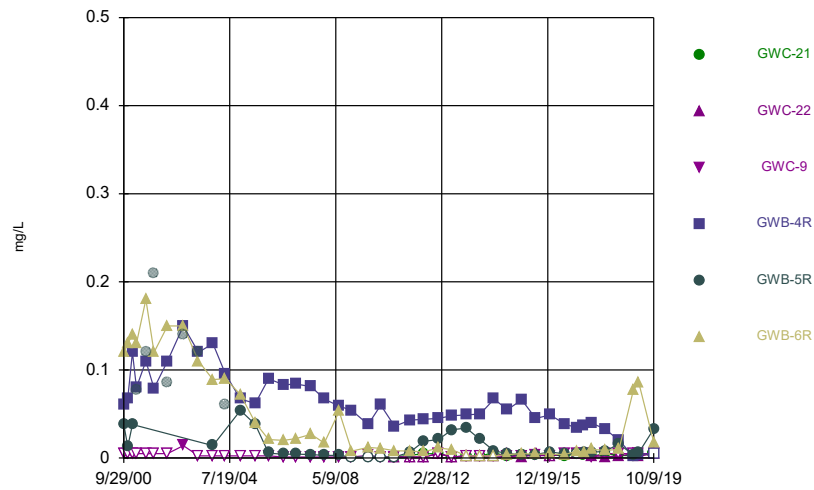
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Vanadium



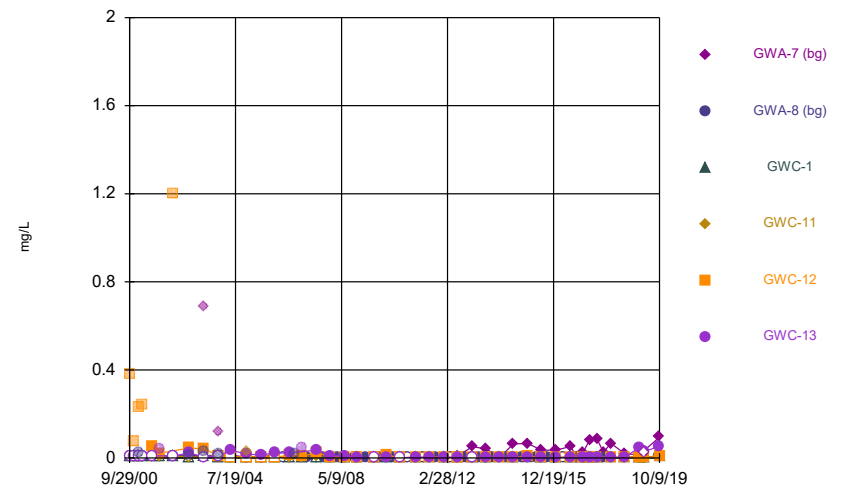
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Vanadium



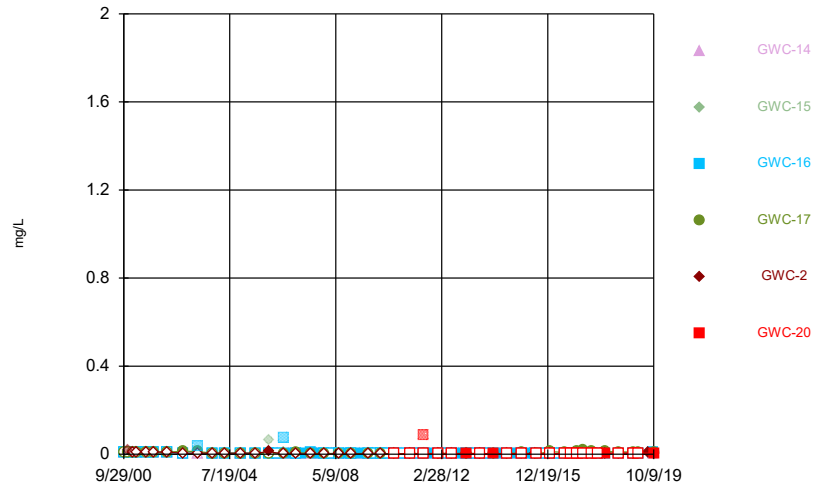
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Zinc



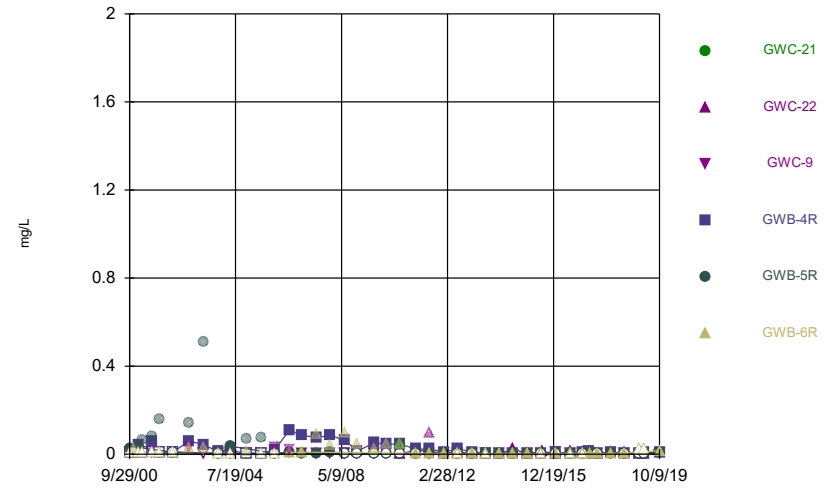
Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Zinc



Time Series Analysis Run 3/31/2020 10:55 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Zinc



Time Series Analysis Run 3/31/2020 10:56 AM View: Confidence Interval
Grumman Road Landfill Client: Southern Company Data: Grumman Road

**First 2020 Semiannual
Statistical Analysis of
Appendix I, II, III, and IV
Constituents**
(Completed by Groundwater Stats
Consulting, LLC)

June 2020

GROUNDWATER
STATISTICAL
ANALYSIS

FOR

GRUMMAN ROAD
LANDFILL

Prepared by:

Groundwater Stats Consulting LLC

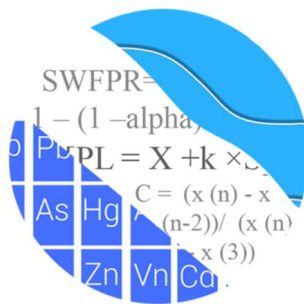


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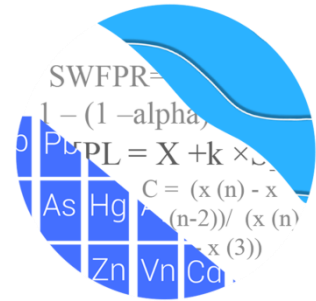
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GROUNDWATER STATS CONSULTING

July 27, 2020

Southern Company Services
Attn: Ms. Lauren Petty
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Kraft's Grumman Road Landfill
Statistical Analysis – April 2020 Sample Event

Dear Ms. Petty,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the April 2020 groundwater analysis for Georgia Power Company's Plant Kraft's Grumman Road Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division 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 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, GWC-22

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting.

The program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were 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. Power curves were provided at that time to demonstrate that the selected statistical methods comply with the USEPA Unified Guidance. The EPA suggests 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

Georgia EPD Constituents:

Semi-Annual Sampling

Intrawell 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 (calcium, chloride, fluoride, pH and sulfate)

Intrawell Prediction Limits with 1 of 3 resample plan (boron and TDS)

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 nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 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.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory. Due to varying detection limits, the following substitutions were made for nondetects: 0.003 mg/L for antimony; 0.005 mg/L for arsenic; 0.003 mg/L for beryllium; 0.01 mg/L for chromium; and 0.01 mg/L for selenium.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

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

In the intrawell case, data for all wells and constituents may re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, an earlier portion of data is deselected 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 – Conducted in August 2019

Outlier Testing

Time series plots are 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 are 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 submitted with that report. As a general rule, when the most recent values are identified as outliers, values are 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.

Additionally, values that are not identified by Tukey's test but that are much higher than the remaining measurements are flagged as appropriate in order to obtain conservative prediction limits that are capable of detecting future changes. A summary of flagged values follows this letter (Figure C). 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. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

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. 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.

A large number of statistically significant increasing and decreasing trends were noted in both upgradient and downgradient wells. In most cases, similar patterns existed across the wells, and several records were truncated to remove the variation within a given record and to construct statistical limits that reflect present-day groundwater quality conditions. However, in a few cases, more recent reported measurements had increased to concentrations that were higher than background concentrations within a given record and higher than those observed upgradient of the facility (arsenic in wells GWC-15 and GWC-20; and barium in well GWC-9). More recently, however, the barium concentrations in well GWC-9 have decreased and are similar to historical values as wells as those reported upgradient of the facility. While prediction limits are included in this report for these well/constituent pairs, trend tests are recommended lieu of prediction limits in future analyses for arsenic in wells GWC-15 and GWC-20 until further research provides clearer evidence as to the cause of the increased concentrations. That study is beyond the scope of this analysis prepared by Groundwater Stats Consulting. All well/constituent pairs utilize all available background data through July 2018, except for the special cases

with truncated records. A list of the background periods utilized for the wells with truncated records follows this letter (Figure D).

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. Therefore, intrawell prediction limits are recommended as the most appropriate statistical method. Additionally, this is a lined landfill with pre-waste data showing that metals occur naturally in low level concentrations. Records that required adjusting of the background time period exhibited similar patterns to those observed in at least one of the upgradient wells. For the records showing increasing concentrations which cannot be explained by causes other than the facility, trend tests are recommended in lieu of prediction limits as discussed previously.

Summary of Background Screening – CCR 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 nondetects. A summary of all flagged values follows this report (Figure C).

Additionally, 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. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. In cases where the laboratory reported a higher reporting limit for the most recent event, the historical and lower reporting limit was substituted as discussed earlier.

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.

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 were relatively low in magnitude when compared to average concentrations, and the background period is short, making it difficult to determine whether an apparent trend represents 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. These constituents were further evaluated as described below for the appropriateness of intrawell testing to accommodate the groundwater quality.

Appendix III – Intrawell Method Eligibility Screening

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Prior to performing intrawell prediction limits, several steps are required to reasonably demonstrate downgradient water quality does not have existing impacts from the practices of the facility.

Exploratory data analysis was used as a general comparison of concentrations in downgradient wells to concentrations reported in upgradient wells for Appendix III parameters. While all Appendix III parameters are included, this is particularly useful for justifying the appropriateness for parameters where intrawell methods are recommended (based on the ANOVA results).

Upper tolerance limits are used in conjunction with confidence intervals to determine whether the estimated averages in downgradient wells are higher than observed levels upgradient of the facility. The upper tolerance limits were constructed to represent the extreme upper range of possible background levels at the site. Two-sided tolerance limits are included for pH and represent both the upper and lower ranges of possible measurements in background wells.

In cases where downgradient average concentrations are higher than observed concentrations upgradient for a given constituent where intrawell analyses are recommended, an independent study and hydrogeological investigation would be required to identify local geochemical conditions and expected groundwater quality for the region to justify an intrawell approach. Such an assessment is beyond the scope of services provided by Groundwater Stats Consulting. When there is not an obvious explanation for observed concentration differences in downgradient wells relative to reported concentrations in upgradient wells, interwell prediction limits will initially be selected for the statistical method until further evidence shows that concentrations are due to natural variation rather than a result of the facility.

Parametric tolerance limits were constructed with a target of 99% confidence and 95% coverage using pooled upgradient well data for each of the Appendix III parameters. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As more data are collected, the background population is better represented and the confidence and coverage levels increase.

Confidence intervals were constructed on downgradient wells for each of the Appendix III parameters, using the tolerance limits discussed above, to determine intrawell eligibility where applicable. Parametric confidence intervals around the population mean are constructed at the 99% confidence level when data follow a normal distribution, and around the geometric mean (or population median) when data follow a transformed-normal distribution.

Non-parametric confidence intervals are constructed when data do not pass a normality test and cannot be normalized via a transformation. The confidence level associated with the non-parametric tests is dependent on the number of values used to construct the interval. Confidence intervals require a minimum of four samples; however, eight samples are recommended. When a well/constituent pair does not have the required minimum sample size, the well/constituent pair will continue to be reported and tracked using time series plots and/or trend tests until such time that enough data are available.

When the entire confidence interval is above a background standard for a given parameter, interwell methods are initially recommended as the statistical method. Note that this screening identifies whether confidence intervals are above a background standard, but does not identify the reason for this occurrence. Therefore, only the wells/parameters with confidence intervals which did not exceed background standards are eligible for intrawell prediction limits.

For parameters where intrawell analyses are recommended, there was at least one confidence interval exceedance for each parameter except boron and TDS; therefore, interwell methods are initially recommended for calcium, chloride, fluoride, pH and sulfate, while intrawell methods are recommended for boron and TDS. If further evaluation confirms natural variation in groundwater, intrawell methods will be considered for parameters currently recommended for interwell methods.

Statistical Analysis of Georgia EPD Constituents – April 2020

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed concentrations upgradient for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill, with the exceptions noted above. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data within each well with detections through July 2018 (Figure E). When the April 2020 samples were compared to these limits, the following prediction limit exceedances were noted:

- Arsenic: GWC-1, GWC15
- Barium: GWC-14, GWC-16, GWC-20

As previously discussed, no statistical analyses were included for well/constituent pairs where there are 100% nondetects in the downgradient well.

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 along with upgradient wells for the same constituents (Figure F). Trend tests for arsenic in wells GWC-15 and GWC-20 were included as discussed previously. Upgradient wells are also included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site.

The following statistically significant increasing trends were noted:

- Arsenic: GWA-7 (upgradient), GWC-15, GWC-20
- Barium: GWC-20

The following statistically significant decreasing trends were noted:

- Arsenic: GWA-8 (upgradient), GWC-1
- Barium: GWA-8 (upgradient); GWC-14

When similar significant trends are noted upgradient of the facility, it is an indication that groundwater concentrations are naturally changing over time. A summary of the trend test results follows this letter.

Statistical Analysis of Appendix III Parameters – April 2020 Sample Event

Intrawell Prediction Limits

Intrawell prediction limits, combined with a 1-of-3 resample plan, were constructed using all available data within each well through July 2018 for boron and TDS (Figure G). Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background. In the event of an initial exceedance of compliance well data, the 1-of-3 resample plan allows collection of up to 2 additional samples, to determine whether the initial exceedance is confirmed. When all resamples confirm 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 a 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 following intrawell prediction limit exceedances were noted:

- Boron: GWB-6R, GWC-11, GWC-16
- TDS: GWB-6R, GWC-11, GWC-16

Historical concentrations for boron and TDS in upgradient well GWA-7 are significantly higher than those reported currently, which are similar to those reported in downgradient wells GWB-6R, GWC-11 and GWC-16, which may be an indication of naturally changing groundwater unrelated to practices at the facility. Additionally, the majority of the concentrations of boron in well GWC-11 are similar to those reported in upgradient well GWA-8. Further studies beyond the scope of this analysis would be needed to fully understand the groundwater chemistry downgradient as it relates to the groundwater chemistry observed upgradient of the facility.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using pooled upgradient well data through April 2020 to develop background limits for calcium, chloride, fluoride, pH and sulfate (Figure H). 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 most recent 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.

The following interwell prediction limit exceedances were noted:

- Calcium: GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-22, GWB-4R
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12, GWC-15
- Sulfate: GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-22, GWB-4R, GWB-5R, GWB-6R

Trend Tests

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 along with upgradient wells for the same constituents (Figure I). Upgradient wells are also included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site.

The following statistically significant increasing trends were noted:

- Boron: GWC-16
- Calcium: GWA-8 (upgradient), GWC-11, GWC-16
- pH: GWC-15
- TDS: GWC-16

The following statistically significant decreasing trends were noted:

- Boron: GWA-7 (upgradient)
- Calcium: GWA-7 (upgradient), GWC-12
- Sulfate: GWC-12
- TDS: GWA-7 (upgradient)

Appendix IV – Assessment Monitoring Program

Interwell tolerance limits were used to calculate the site-specific background limits from all historical pooled upgradient well data for Appendix IV constituents (Figure J). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for barium and radium. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. In the case of combined radium 226 + 228, a nonparametric tolerance limit was selected due to the transformation required for the parametric limit which resulted in an extremely high upper tolerance limit. 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) (Figure G).

As described in 40 CFR §257.95(h) (1-3), 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, CCR-rule specified level have been specified 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

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the April 2020 sample event (Figures K and L, respectively).

To complete the statistical comparison to GWPS, confidence intervals were constructed using data from 2016 through the present for each of the Appendix IV constituents in each downgradient well for the State and Federal requirements (Figures M and N, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals for the State were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a) and the confidence intervals for the Federal were prepared according to the CCR Rule. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter.

The following confidence interval exceedances were noted for the State:

- Arsenic: GWC-15, GWC-16, GWC-20
- Molybdenum: GWC-1, GWC-15, GWC-16, GWC-20, GWC-21, GWC-4R

The following confidence interval exceedances were noted for the Federal:

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

SUMMARY

Based on the statistical analyses described in this letter, the following statistical exceedances were noted:

Prediction Limits (Detection Monitoring Parameters):

State:

- Arsenic: GWC-1, GWC15
- Barium: GWC-14, GWC-16, GWC-20

Federal:

- Boron: GWB-6R, GWC-11, GWC-16
- Calcium: GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-22, GWB-4R
- Chloride: GWC-17
- Fluoride: GWC-17
- pH: GWC-12, GWC-15
- Sulfate: GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-22, GWB-4R, GWB-5R, GWB-6R
- TDS: GWB-6R, GWC-11, GWC-16

Confidence Intervals (Assessment Monitoring Parameters):

State:

- Arsenic: GWC-15, GWC-16, GWC-20
- Molybdenum: GWC-1, GWC-15, GWC-16, GWC-20, GWC-21, GWB-4R

Federal:

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

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 me.

For Groundwater Stats Consulting,



Kristina L. Rayner
Groundwater Statistician

Date Ranges

Date: 5/23/2020 2:33 PM

Grumman Road Landfill

Client: Southern Company

Data: Grumman Road

Arsenic (mg/L)

GWB-5R background:12/12/2005-7/10/2018

GWB-6R background:1/7/2011-7/10/2018

Barium (mg/L)

GWC-14 background:7/17/2013-7/10/2018

Chromium (mg/L)

GWB-4R background:1/7/2011-7/11/2018

GWB-6R background:7/7/2009-7/10/2018

Selenium (mg/L)

GWC-14 background:1/17/2012-7/9/2018

Vanadium (mg/L)

GWA-7 background:7/9/2012-7/11/2018

GWC-14 background:3/25/2009-7/9/2018

GWB-4R background:6/24/2008-7/11/2018

GWB-6R background:12/11/2007-7/10/2018

Intrawell Prediction Limits (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-1	0.0086	n/a	4/7/2020	0.027	41	n/a	n/a	65.85	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.09	n/a	4/7/2020	0.24	43	n/a	n/a	58.14	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWC-14	0.04252	n/a	4/7/2020	0.073	21	0.02967	0.00524	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-16	0.0944	n/a	4/7/2020	0.13	59	n/a	n/a	0	n/a	n/a	0.0005506	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-20	0.1775	n/a	4/8/2020	0.19	22	0.08198	0.03928	0	None	No	0.0004115	Param Intra 1 of 2

Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7	0.003	n/a	4/6/2020	0.003ND	42	n/a	n/a	85.71	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	4/7/2020	0.00066	43	n/a	n/a	90.7	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	4/8/2020	0.003ND	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.005	n/a	4/7/2020	0.003ND	64	n/a	n/a	98.44	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.006	n/a	4/7/2020	0.003ND	64	n/a	n/a	98.44	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	4/8/2020	0.0013	41	n/a	n/a	100	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	4/8/2020	0.003ND	22	n/a	n/a	95.45	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	4/7/2020	0.00049	21	n/a	n/a	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	4/8/2020	0.00033	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-4R	0.003	n/a	4/7/2020	0.003ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	4/7/2020	0.003ND	43	n/a	n/a	100	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-7	0.014	n/a	4/6/2020	0.005ND	39	n/a	n/a	61.54	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-8	0.005	n/a	4/6/2020	0.00045	63	n/a	n/a	92.06	n/a	n/a	0.000487	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0086	n/a	4/7/2020	0.027	41	n/a	n/a	65.85	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.005	n/a	4/7/2020	0.005ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0064	n/a	4/8/2020	0.005ND	43	n/a	n/a	95.35	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.011	n/a	4/7/2020	0.0018	64	n/a	n/a	81.25	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.09	n/a	4/7/2020	0.24	43	n/a	n/a	58.14	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.1212	n/a	4/7/2020	0.091	62	0.07945	0.01932	0	None	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-17	0.005	n/a	4/8/2020	0.0013	43	n/a	n/a	86.05	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.005	n/a	4/8/2020	0.00094	41	n/a	n/a	97.56	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.5741	n/a	4/8/2020	0.33	22	0.2788	0.1215	4.545	None	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-21	0.005	n/a	4/7/2020	0.005ND	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.005	n/a	4/7/2020	0.00043	21	n/a	n/a	61.9	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.005	n/a	4/8/2020	0.00084	43	n/a	n/a	100	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0076	n/a	4/7/2020	0.0027	40	n/a	n/a	60	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.005	n/a	4/7/2020	0.0011	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.005	n/a	4/7/2020	0.005ND	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-7	0.2043	n/a	4/6/2020	0.072	41	0.1021	0.04574	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWA-8	0.14	n/a	4/6/2020	0.057	60	n/a	n/a	0	n/a	n/a	0.0005281	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-1	0.1141	n/a	4/7/2020	0.05	42	0.2379	0.04483	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-11	0.2074	n/a	4/7/2020	0.14	42	0.2407	0.09636	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-12	0.1228	n/a	4/7/2020	0.017	37	0.3382	0.07041	0	None	x^(1/3)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-13	0.03175	n/a	4/8/2020	0.027	42	0.01478	0.00762	14.29	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-14	0.04252	n/a	4/7/2020	0.073	21	0.02967	0.00524	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-15	0.05948	n/a	4/7/2020	0.033	40	0.04178	0.00791	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-16	0.0944	n/a	4/7/2020	0.13	59	n/a	n/a	0	n/a	n/a	0.0005506	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-17	0.247	n/a	4/8/2020	0.055	42	0.02849	0.01459	0	None	x^2	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-2	0.07214	n/a	4/8/2020	0.061	39	0.04318	0.0129	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1775	n/a	4/8/2020	0.19	22	0.08198	0.03928	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-21	0.1503	n/a	4/7/2020	0.054	21	0.07795	0.0295	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.1535	n/a	4/7/2020	0.1	21	0.08871	0.02642	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-9	0.356	n/a	4/8/2020	0.15	42	n/a	n/a	0	n/a	n/a	0.001077	NP Intra (normality) 1 of 2
Barium (mg/L)	GWB-4R	0.261	n/a	4/7/2020	0.09	42	0.1503	0.04972	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-5R	0.3072	n/a	4/7/2020	0.098	40	0.1394	0.07497	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-6R	0.2605	n/a	4/7/2020	0.01	42	0.3159	0.0873	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWA-7	0.068	n/a	4/6/2020	0.015	41	n/a	n/a	36.59	n/a	n/a	0.001118	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-8	0.014	n/a	4/6/2020	0.01ND	61	n/a	n/a	93.44	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.01	n/a	4/7/2020	0.0015	41	n/a	n/a	70.73	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.01	n/a	4/7/2020	0.00094	43	n/a	n/a	69.77	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.00082	43	n/a	n/a	72.09	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.01	n/a	4/8/2020	0.00058	43	n/a	n/a	79.07	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.014	n/a	4/7/2020	0.00074	61	n/a	n/a	67.21	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.0014	43	n/a	n/a	72.09	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	62	n/a	n/a	80.65	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.00073	42	n/a	n/a	78.57	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.00069	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.001	22	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	n/a	4/7/2020	0.01ND	21	n/a	n/a	57.14	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.00049	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.014	n/a	4/8/2020	0.0015	43	n/a	n/a	65.12	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWB-4R	0.02279	n/a	4/7/2020	0.0028	20	0.01249	0.004168	0	None	No	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWB-5R	0.03	n/a	4/7/2020	0.0022	38	n/a	n/a	39.47	n/a	n/a	0.001294	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWB-6R	0.01385	n/a	4/7/2020	0.0094	23	-5.977	0.704	13.04	None	ln(x)	0.0004115	Param Intra 1 of 2
Lead (mg/L)	GWA-7	0.013	n/a	4/6/2020	0.0024	40	n/a	n/a	65	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-8	0.0095	n/a	4/6/2020	0.0001	62	n/a	n/a	90.32	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.005	n/a	4/7/2020	0.00012	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	4/7/2020	0.00036	42	n/a	n/a	78.57	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.005	n/a	4/7/2020	0.000081	43	n/a	n/a	76.74	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.0078	n/a	4/8/2020	0.00017	43	n/a	n/a	81.4	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.005	n/a	4/7/2020	0.005ND	62	n/a	n/a	95.16	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.0065	n/a	4/7/2020	0.000086	43	n/a	n/a	88.37	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.005	n/a	4/7/2020	0.00023	61	n/a	n/a	90.16	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.005	n/a	4/8/2020	0.000084	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.0069	n/a	4/8/2020	0.005ND	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	n/a	4/8/2020	0.005ND	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.005	n/a	4/7/2020	0.005ND	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	4/7/2020	0.00067	21	n/a	n/a	57.14	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.0051	n/a	4/8/2020	0.00021	42	n/a	n/a	88.1	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.011	n/a	4/7/2020	0.00073	37	n/a	n/a	59.46	n/a	n/a	0.001361	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.011	n/a	4/7/2020	0.0014	35	n/a	n/a	77.14	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.025	n/a	4/7/2020	0.00063	43	n/a	n/a	81.4	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-7	0.0438	n/a	4/6/2020	0.0078	40	n/a	n/a	65	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	62	n/a	n/a	96.77	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.023	n/a	4/7/2020	0.0013	41	n/a	n/a	58.54	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.036	n/a	4/7/2020	0.0021	43	n/a	n/a	62.79	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.01ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.01944	n/a	4/7/2020	0.005	27	0.007544	0.005074	22.22	Kaplan-Meier	No	0.0004115	Param Intra 1 of 2
Selenium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.0029	39	n/a	n/a	92.31	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	62	n/a	n/a	75.81	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.01ND	43	n/a	n/a	83.72	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.01ND	41	n/a	n/a	92.68	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.0013	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.04956	n/a	4/7/2020	0.012	21	0.02277	0.01093	4.762	None	No	0.0004115	Param Intra 1 of 2
Selenium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.01ND	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	n/a	4/8/2020	0.01ND	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.01	n/a	4/7/2020	0.0025	34	n/a	n/a	67.65	n/a	n/a	0.001599	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.011	n/a	4/7/2020	0.01ND	43	n/a	n/a	88.37	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.01	n/a	4/7/2020	0.01ND	43	n/a	n/a	83.72	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-7	0.5207	n/a	4/6/2020	0.12	16	0.2627	0.09909	0	None	No	0.0004115	Param Intra 1 of 2

Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	60	n/a	n/a	91.67	n/a	n/a	0.0005281	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.01	n/a	4/7/2020	0.0015	39	n/a	n/a	58.97	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.01	n/a	4/7/2020	0.01ND	40	n/a	n/a	55	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.0024	40	n/a	n/a	80	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.01	n/a	4/8/2020	0.01ND	40	n/a	n/a	80	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.05462	n/a	4/7/2020	0.0026	36	0.1496	0.03719	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.01ND	40	n/a	n/a	72.5	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.012	n/a	4/7/2020	0.01ND	62	n/a	n/a	50	n/a	n/a	0.0005007	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.01ND	40	n/a	n/a	75	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.01ND	38	n/a	n/a	100	n/a	n/a	0.001294	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.01ND	21	n/a	n/a	38.1	n/a	n/a	0.003999	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-21	0.007919	n/a	4/7/2020	0.01ND	18	-5.764	0.3646	33.33	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.0014	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.014	n/a	4/8/2020	0.0015	40	n/a	n/a	87.5	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.07366	n/a	4/7/2020	0.0037	22	0.04594	0.0114	0	None	No	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-5R	0.04817	n/a	4/7/2020	0.0053	33	-4.848	0.7947	15.15	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-6R	0.053	n/a	4/7/2020	0.041	23	n/a	n/a	13.04	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-7	0.0853	n/a	4/6/2020	0.01ND	39	n/a	n/a	30.77	n/a	n/a	0.001226	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	57	n/a	n/a	24.56	n/a	n/a	0.0005955	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.011	n/a	4/7/2020	0.01ND	40	n/a	n/a	85	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-11	0.013	n/a	4/7/2020	0.01ND	39	n/a	n/a	69.23	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.01ND	28	n/a	n/a	32.14	n/a	n/a	0.002337	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.036	n/a	4/8/2020	0.023	38	n/a	n/a	28.95	n/a	n/a	0.001294	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.011	n/a	4/7/2020	0.01ND	63	n/a	n/a	87.3	n/a	n/a	0.000487	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-15	0.011	n/a	4/7/2020	0.01ND	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	61	n/a	n/a	67.21	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-17	0.0175	n/a	4/8/2020	0.01ND	40	n/a	n/a	32.5	n/a	n/a	0.001159	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.012	n/a	4/8/2020	0.01ND	37	n/a	n/a	81.08	n/a	n/a	0.001361	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.01ND	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.01	n/a	4/7/2020	0.01ND	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-22	0.02471	n/a	4/7/2020	0.01ND	17	0.008441	0.00633	11.76	None	No	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWC-9	0.01	n/a	4/8/2020	0.01ND	37	n/a	n/a	45.95	n/a	n/a	0.001361	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWB-4R	0.1912	n/a	4/7/2020	0.01ND	40	-4.471	1.259	17.5	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWB-5R	0.01	n/a	4/7/2020	0.01ND	30	n/a	n/a	56.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWB-6R	0.01034	n/a	4/7/2020	0.01ND	19	0.06024	0.01655	26.32	Kaplan-Meier	sqrt(x)	0.0004115	Param Intra 1 of 2

Trend Test Summary (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/26/2020, 9:36 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	0	2.798	2.58	Yes	43	58.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.444	-2.58	Yes	68	91.18	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-1	0	-3.593	-2.58	Yes	46	58.7	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.002715	7.536	2.58	Yes	48	52.08	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.02201	126	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002605	-7.718	-2.58	Yes	65	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	-0.002832	-5.38	-2.58	Yes	67	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.00615	171	124	Yes	27	0	n/a	n/a	0.01	NP

Trend Test Summary (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/26/2020, 9:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	GWA-7 (bg)	0	2.798	2.58	Yes	43	58.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.444	-2.58	Yes	68	91.18	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-1	0	-3.593	-2.58	Yes	46	58.7	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.002715	7.536	2.58	Yes	48	52.08	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.02201	126	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	-0.0003887	-0.4366	-2.58	No	46	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002605	-7.718	-2.58	Yes	65	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	-0.002832	-5.38	-2.58	Yes	67	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-16	0.0008429	2.186	2.58	No	64	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.00615	171	124	Yes	27	0	n/a	n/a	0.01	NP

Intrawell Prediction Limits (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-6R	4.2	n/a	4/7/2020	5.6	8	2.62	0.6468	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-11	0.3714	n/a	4/7/2020	0.67	8	-2.326	0.5469	0	None	In(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-16	6.286	n/a	4/7/2020	10.5	8	2.815	1.422	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	n/a	4/7/2020	775	8	428.3	57.63	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	760	n/a	4/7/2020	780	8	264.3	203	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	n/a	4/7/2020	1500	8	893.1	201.8	0	None	No	0.0004702	Param 1 of 3

Intrawell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-7	28.17	n/a	4/6/2020	6.1	8	17.29	4.455	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWA-8	0.1446	n/a	4/6/2020	0.14	8	0.1185	0.0107	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-4R	9.727	n/a	4/7/2020	5.5	8	7.539	0.8959	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-5R	7.397	n/a	4/7/2020	4.6	8	3.278	1.687	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-6R	4.2	n/a	4/7/2020	5.6	8	2.62	0.6468	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-1	1.625	n/a	4/7/2020	1	8	1.067	0.2284	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-11	0.3714	n/a	4/7/2020	0.67	8	-2.326	0.5469	0	None	ln(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-12	9.63	n/a	4/7/2020	5.3	8	6.358	1.34	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-13	0.3009	n/a	4/8/2020	0.28	8	0.1458	0.06354	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-14	0.08961	n/a	4/7/2020	0.061	8	0.07295	0.006824	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-15	1.943	n/a	4/7/2020	0.96	7	1.364	0.2101	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-16	6.286	n/a	4/7/2020	10.5	8	2.815	1.422	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-17	1.869	n/a	4/8/2020	0.99	8	0.8828	0.4041	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-2	0.05241	n/a	4/8/2020	0.031	8	0.1559	0.02991	0	None	sqrt(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-20	5.558	n/a	4/8/2020	2.5	8	2.855	1.107	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-21	1.031	n/a	4/7/2020	0.24	8	0.383	0.2654	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-22	16.9	n/a	4/7/2020	3.1	8	5.403	4.71	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-9	0.03214	n/a	4/8/2020	0.023	7	0.02137	0.003908	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWA-7	4478	n/a	4/6/2020	1670	8	3044	587.2	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWA-8	384.6	n/a	4/6/2020	214	8	227.8	64.23	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-4R	1282	n/a	4/7/2020	482	8	998.9	115.9	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-5R	559.8	n/a	4/7/2020	483	7	322.1	86.22	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	n/a	4/7/2020	775	8	428.3	57.63	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-1	460.5	n/a	4/7/2020	195	8	291.9	69.05	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	760	n/a	4/7/2020	780	8	264.3	203	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	1845	n/a	4/7/2020	464	8	1213	258.9	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	150.3	n/a	4/8/2020	65	8	54	39.43	25	Kaplan-Meier	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	1226	n/a	4/7/2020	843	8	772	185.8	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	672	n/a	4/7/2020	428	8	544.6	52.18	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	n/a	4/7/2020	1500	8	893.1	201.8	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	2945	n/a	4/8/2020	881	8	1860	444.3	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-2	157.3	n/a	4/8/2020	38	8	57.06	41.05	12.5	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	1016	n/a	4/8/2020	986	8	546.9	192	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	328.6	n/a	4/7/2020	106	8	140.6	77.02	12.5	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	2575	n/a	4/7/2020	819	8	1067	617.6	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	272.4	n/a	4/8/2020	80	8	188.5	34.38	0	None	No	0.0004702	Param 1 of 3

Interwell Prediction Limits (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-11	35.8	n/a	4/7/2020	84.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	4/7/2020	52.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	4/7/2020	135	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	4/7/2020	129	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	4/7/2020	225	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	4/8/2020	53.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	4/8/2020	175	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	4/7/2020	65.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	4/7/2020	62.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	4/8/2020	277	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.4583	n/a	4/8/2020	0.55	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-12	6.43	4.24	4/7/2020	4.1	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	4/7/2020	6.83	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	4/7/2020	446	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	4/7/2020	297	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	4/7/2020	456	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	4/7/2020	844	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	4/8/2020	239	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	4/8/2020	428	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	4/7/2020	333	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	4/7/2020	221	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2

Interwell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-1	35.8	n/a	4/7/2020	31.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	4/7/2020	84.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	4/7/2020	52.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	4/8/2020	2.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	4/7/2020	135	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	4/7/2020	129	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	4/7/2020	225	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	4/8/2020	53.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	4/8/2020	0.24	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	4/8/2020	175	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	4/7/2020	12.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	4/7/2020	65.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	4/8/2020	5.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	4/7/2020	62.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	4/7/2020	34.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	4/7/2020	7.8	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	4/7/2020	7.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	4/7/2020	103	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	4/7/2020	32.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	4/8/2020	4.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	4/7/2020	41.6	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	4/7/2020	3.4	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	4/7/2020	49.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	4/8/2020	277	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	4/8/2020	5.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	4/8/2020	20.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	4/7/2020	4.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	4/7/2020	146	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	4/8/2020	16.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	4/7/2020	14.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	4/7/2020	44.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	4/7/2020	56.4	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-11	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-12	0.4583	n/a	4/7/2020	0.27	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-13	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-14	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-15	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-16	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-17	0.4583	n/a	4/8/2020	0.55	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-2	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-20	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-21	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-22	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-9	0.4583	n/a	4/8/2020	0.058	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-4R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-5R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-6R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-1	6.43	4.24	4/7/2020	5.3	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.24	4/7/2020	5.05	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2

Interwell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-12	6.43	4.24	4/7/2020	4.1	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.24	4/8/2020	4.81	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.24	4/7/2020	6.2	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	4/7/2020	6.83	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.24	4/7/2020	5.94	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.24	4/8/2020	4.71	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.24	4/8/2020	4.66	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.24	4/8/2020	6.31	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.24	4/7/2020	6	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.24	4/7/2020	4.8	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.24	4/8/2020	4.73	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.24	4/7/2020	5.74	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.24	4/7/2020	5.45	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.24	4/7/2020	5.86	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	4/7/2020	83	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	4/7/2020	446	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	4/7/2020	297	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	4/8/2020	30.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	4/7/2020	456	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	4/7/2020	26.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	4/7/2020	844	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	4/8/2020	239	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	4/8/2020	12.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	4/8/2020	428	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	4/7/2020	33.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	4/7/2020	333	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	4/8/2020	34.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	4/7/2020	221	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2

Trend Test Summary (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-7 (bg)	-4.496	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-16	2.531	56	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7 (bg)	-0.9737	-47	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	2.805	41	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	17.85	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-15.09	-64	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	39.32	47	38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.1181	40	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-185.6	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-571.2	-59	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-16	251.9	51	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-7 (bg)	-4.496	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-8 (bg)	0.001627	4	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-11	0.05085	34	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-16	2.531	56	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWB-6R	1.171	32	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7 (bg)	-0.9737	-47	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	2.805	41	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	17.85	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-15.09	-64	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	-2.399	-2	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	3.001	10	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	39.32	47	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-6.933	-12	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	6.478	10	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-17.39	-33	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	12.38	32	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-23.13	-29	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	1.079	29	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-112.5	-19	-38	No	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	0.01096	8	43	No	13	30.77	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	0	-1	-43	No	13	15.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.09821	-16	-43	No	13	7.692	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.07309	-35	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	-0.002245	-1	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	0.006067	3	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.1181	40	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.959	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-2.933	-10	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	79.87	32	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-185.6	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-63.51	-22	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	137.3	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	12.32	3	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	-21.31	-8	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-117.1	-38	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	14.55	12	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	20.38	34	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-571.2	-59	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-8 (bg)	-2.336	-2	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-11	157.7	29	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-16	251.9	51	38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWB-6R	114.6	34	38	No	12	0	n/a	n/a	0.01	NP

Tolerance Limit Summary Table - Appendix IV

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/25/2020, 8:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	115	n/a	n/a	94.78	n/a	n/a	0.002743	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.014	n/a	111	n/a	n/a	78.38	n/a	n/a	0.003368	NP Inter(NDs)
Barium (mg/L)	n/a	0.22	n/a	111	n/a	n/a	0	n/a	n/a	0.003368	NP Inter(normality)
Beryllium (mg/L)	n/a	0.003	n/a	32	n/a	n/a	50	n/a	n/a	0.1937	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0025	n/a	31	n/a	n/a	93.55	n/a	n/a	0.2039	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	112	n/a	n/a	66.96	n/a	n/a	0.003199	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0102	n/a	34	n/a	n/a	50	n/a	n/a	0.1748	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	33.8	n/a	22	n/a	n/a	0	n/a	n/a	0.3235	NP Inter
Fluoride (mg/L)	n/a	0.6556	n/a	26	0.2365	0.1606	23.08	Cohen's	No	0.01	Inter
Lead (mg/L)	n/a	0.013	n/a	111	n/a	n/a	77.48	n/a	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.05	n/a	17	n/a	n/a	76.47	n/a	n/a	0.4181	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	20	n/a	n/a	85	n/a	n/a	0.3585	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	19	n/a	n/a	84.21	n/a	n/a	0.3774	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	110	n/a	n/a	82.73	n/a	n/a	0.003545	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	54	n/a	n/a	92.59	n/a	n/a	0.06267	NP Inter(NDs)

GRUMMAN ROAD LANDFILL GWPS (State)				
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		0.0287	0.0287
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)		0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		33.8	33.8
Fluoride, Total (mg/L)	4		0.6556	4
Lead, Total (mg/L)		0.015	0.013	0.013
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.01
Selenium, Total (mg/L)	0.05		0.0438	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

GRUMMAN ROAD LANDFILL GWPS (Federal)				
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		0.0287	0.0287
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)		0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		33.8	33.8
Fluoride, Total (mg/L)	4		0.6556	4
Lead, Total (mg/L)		0.015	0.013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.0438	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes 15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes 16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes 15	0.3261	0.07248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.01	Yes 11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.01	Yes 11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.01	Yes 11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.01	Yes 11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.01	Yes 11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes 11	0.04843	0.04052	0	None	No	0.006	NP (normality)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7 (bg)	0.003	0.0013	0.006	No	15	0.002513	0.0008568	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWA-8 (bg)	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0005	0.006	No	15	0.001877	0.001249	53.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	14	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	15	0.002927	0.000284	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00049	0.006	No	15	0.002663	0.0008903	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	15	0.002729	0.0007552	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.00054	0.006	No	15	0.002836	0.0006352	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWA-7 (bg)	0.01379	0.004635	0.0287	No	12	0.009508	0.00692	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWA-8 (bg)	0.005	0.0006	0.0287	No	16	0.003391	0.00215	62.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-1	0.0042	0.0015	0.0287	No	14	0.004343	0.006598	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	15	0.005	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0009	0.0287	No	15	0.004153	0.001754	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	15	0.004412	0.001552	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.0026	0.0018	0.0287	No	16	0.002271	0.0008184	6.25	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes	15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes	16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0009	0.0287	No	15	0.002521	0.001835	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.0287	No	15	0.004129	0.001807	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes	15	0.3261	0.07248	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005955	0.00332	0.0287	No	15	0.004067	0.001312	40	Cohen's d	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	15	0.002705	0.002021	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.0287	No	15	0.004723	0.001074	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003147	0.001641	0.0287	No	15	0.002457	0.001208	13.33	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.005	0.0009	0.0287	No	15	0.002487	0.001924	26.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWB-6R	0.005	0.0011	0.0287	No	15	0.002829	0.001743	33.33	None	No	0.01	NP (Cohens/xfrm)
Barium (mg/L)	GWA-7 (bg)	0.1545	0.0802	2	No	14	0.1174	0.05248	0	None	No	0.01	Param.
Barium (mg/L)	GWA-8 (bg)	0.0664	0.06025	2	No	16	0.06333	0.00472	0	None	No	0.01	Param.
Barium (mg/L)	GWC-1	0.0575	0.04982	2	No	15	0.05366	0.005669	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1125	0.05506	2	No	15	0.08379	0.0424	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0191	0.0162	2	No	15	0.01847	0.003995	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02474	0.01968	2	No	15	0.02221	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0248	2	No	16	0.03726	0.01953	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.049	0.04021	2	No	15	0.04461	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1049	0.05422	2	No	14	0.08131	0.0372	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-17	0.1245	0.04703	2	No	15	0.09051	0.06112	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.057	0.049	2	No	14	0.05407	0.008399	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.148	0.078	2	No	15	0.1071	0.03885	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-21	0.07381	0.05031	2	No	15	0.06206	0.01734	0	None	No	0.01	Param.
Barium (mg/L)	GWC-22	0.09974	0.06378	2	No	15	0.08279	0.0285	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-9	0.2743	0.1982	2	No	15	0.2363	0.05612	0	None	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09633	0.07886	2	No	15	0.08759	0.01289	0	None	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1628	0.09057	2	No	15	0.1294	0.05934	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	15	0.07353	0.04511	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWA-7 (bg)	0.003	0.0002	0.004	No	8	0.001225	0.001208	25	None	No	0.004	NP (Cohens/xfrm)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWA-8 (bg)	0.00024	0.0002	0.004	No	11	0.0004564	0.0008438	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-12	0.000918	0.0005275	0.004	No	11	0.0007227	0.0002343	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	11	0.002733	0.000887	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	11	0.002205	0.001362	72.73	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	11	0.001147	0.001469	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-17	0.003159	0.001658	0.004	No	11	0.002427	0.0009318	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.00009	0.004	No	12	0.00229	0.001286	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	11	0.001433	0.001501	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	11	0.0002582	0.00004916	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	11	0.001445	0.001491	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-5R	0.003	0.0001	0.004	No	11	0.0007051	0.001137	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWA-7 (bg)	0.0025	0.0001	0.005	No	9	0.002033	0.0009381	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	GWA-8 (bg)	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	11	0.002061	0.0009769	81.82	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007221	0.0001598	0.005	No	11	0.0005255	0.0006754	9.091	None	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	11	0.001234	0.001213	45.45	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	12	0.0025	0	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	11	0.0008245	0.001083	27.27	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	11	0.001644	0.001189	63.64	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Chromium (mg/L)	GWA-7 (bg)	0.04592	0.02183	0.1	No	14	0.03387	0.017	0	None	No	0.01	Param.
Chromium (mg/L)	GWA-8 (bg)	0.01	0.0006	0.1	No	16	0.007657	0.004192	75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	15	0.002653	0.002337	6.667	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	15	0.005071	0.004747	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	15	0.003005	0.00365	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	15	0.005792	0.004666	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.00074	0.1	No	16	0.003754	0.004355	31.25	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	15	0.004787	0.004412	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	16	0.005468	0.004682	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	15	0.004343	0.004295	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.00065	0.1	No	15	0.005669	0.004794	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	15	0.005159	0.004688	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	15	0.005641	0.004824	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	15	0.005612	0.004856	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.001	0.1	No	15	0.004793	0.004418	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01066	0.004643	0.1	No	15	0.007653	0.004442	0	None	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	15	0.009707	0.01775	26.67	None	No	0.01	NP (Cohens/xfm)
Chromium (mg/L)	GWB-6R	0.011	0.0013	0.1	No	15	0.005607	0.005891	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWA-7 (bg)	0.00677	0.00267	0.0102	No	10	0.00472	0.002298	0	None	No	0.01	Param.
Cobalt (mg/L)	GWA-8 (bg)	0.005	0.0004	0.0102	No	11	0.002095	0.002304	36.36	None	No	0.006	NP (normality)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001461	0.0009338	0.0102	No	11	0.001197	0.0003162	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-17	0.006889	0.003475	0.0102	No	11	0.005182	0.002048	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	12	0.003115	0.002339	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	11	0.002676	0.00223	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	9	0.001453	0.0003465	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	11	0.001509	0.001244	9.091	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.00053	0.0102	No	11	0.003548	0.001882	54.55	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.005	0.0102	No	11	0.00458	0.001393	90.91	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWA-7 (bg)	16.91	4.867	33.8	No	11	11.4	9.532	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWA-8 (bg)	2.886	1.863	33.8	No	11	2.375	0.6138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.45	1.595	33.8	No	11	2.023	0.5129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.309	2.104	33.8	No	11	4.207	2.523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.199	1.981	33.8	No	11	2.59	0.7307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.373	0.6802	33.8	No	11	1.026	0.4155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.353	0.8114	33.8	No	11	1.082	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.815	0.9742	33.8	No	11	1.395	0.5045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.13	1.72	33.8	No	11	2.042	0.7575	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.417	2.7	33.8	No	11	3.558	1.03	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.008	0.5555	33.8	No	11	0.7818	0.2716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	3.207	1.453	33.8	No	11	2.33	1.053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.862	1.039	33.8	No	11	1.451	0.4937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.261	4.254	33.8	No	11	5.757	1.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.327	2.194	33.8	No	11	3.362	1.746	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.32	33.8	No	11	3.632	1.278	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.833	1.921	33.8	No	11	2.971	1.568	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.613	1.962	33.8	No	11	3.287	1.591	0	None	No	0.01	Param.
Fluoride (mg/L)	GWA-7 (bg)	0.3628	0.1388	4	No	13	0.2508	0.1506	30.77	None	No	0.01	Param.
Fluoride (mg/L)	GWA-8 (bg)	0.269	0.09469	4	No	13	0.1724	0.1027	15.38	Cohen's d	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	13	0.2455	0.09649	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	13	0.3	0	100	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9234	0.3391	4	No	13	0.6312	0.3929	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	13	0.284	0.1172	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.3707	0.2416	4	No	13	0.3062	0.08685	53.85	None	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	13	0.2662	0.1082	61.54	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	13	0.3092	0.2106	46.15	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.5	0.6906	4	No	13	1.095	0.5444	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.07	4	No	13	0.2264	0.1614	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	13	0.2264	0.118	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	13	0.2824	0.06351	92.31	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	13	0.1977	0.1179	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3664	0.1032	4	No	13	0.2572	0.2511	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	13	0.3004	0.2966	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	13	0.1641	0.1206	38.46	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	13	0.1868	0.1042	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	GWA-7 (bg)	0.009351	0.003464	0.013	No	13	0.006408	0.003959	0	None	No	0.01	Param.
Lead (mg/L)	GWA-8 (bg)	0.005	0.0001	0.013	No	16	0.003169	0.002442	62.5	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.005	0.00012	0.013	No	15	0.004348	0.001721	86.67	None	No	0.01	NP (NDs)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.00036	0.0001	0.013	No	14	0.00058	0.001274	7.143	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000081	0.013	No	15	0.001983	0.002358	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00017	0.013	No	15	0.002021	0.002208	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.005	0.00051	0.013	No	16	0.003799	0.00215	75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.013	No	15	0.002756	0.002484	53.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-16	0.005	0.0001	0.013	No	16	0.002271	0.002486	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.013	No	15	0.003422	0.002317	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.0002	0.013	No	15	0.00339	0.002358	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.0001	0.013	No	15	0.003374	0.00238	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.013	No	15	0.003046	0.002477	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001163	0.0003349	0.013	No	15	0.001011	0.001307	6.667	None	ln(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.0001	0.013	No	15	0.003091	0.002425	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.006465	0.00267	0.013	No	14	0.004567	0.002679	14.29	None	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0002	0.013	No	15	0.00242	0.002266	40	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.013	No	15	0.002544	0.002389	46.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWA-7 (bg)	0.03	0.03	0.03	No	6	0.03	0	100	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWA-8 (bg)	0.03	0.001	0.03	No	11	0.01948	0.0146	63.64	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.03	No	11	0.01683	0.01513	54.55	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-17	0.007283	0.005226	0.03	No	11	0.006255	0.001234	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.03	No	12	0.03	0	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-9	0.002162	0.001798	0.03	No	10	0.00198	0.0002044	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.03	No	11	0.0073	0.00417	0	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0027	0.03	No	11	0.01333	0.01325	36.36	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWA-7 (bg)	0.0005	0.0001	0.002	No	10	0.000381	0.000194	70	None	No	0.011	NP (normality)
Mercury (mg/L)	GWA-8 (bg)	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	0.000454	0.0001455	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	0.000463	0.000117	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	0.000455	0.0001423	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	0.0004549	0.0001426	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	0.0004543	0.0001445	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWA-7 (bg)	0.01	0.0013	0.01	No	8	0.0078	0.004012	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GWA-8 (bg)	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.01	Yes	11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.01	No	11	0.009255	0.002472	90.91	None	No	0.006	NP (NDs)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.01	No	11	0.0096	0.001327	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.028	0.0022	0.01	No	10	0.00946	0.01198	0	None	No	0.011	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.01	Yes	11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.01	Yes	11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.0036	0.01	No	11	0.008182	0.003136	72.73	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.01	No	12	0.01	0	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.01	Yes	11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.01	Yes	11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes	11	0.04843	0.04052	0	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.01	0.01	No	11	0.0092	0.002653	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.01	0.01	No	11	0.009327	0.002231	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	GWA-7 (bg)	0.03164	0.01103	0.05	No	11	0.02134	0.01237	0	None	No	0.01	Param.
Selenium (mg/L)	GWA-8 (bg)	0.01	0.0013	0.05	No	16	0.008894	0.003023	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	15	0.004147	0.005656	6.667	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	15	0.009033	0.005691	26.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.0025	0.05	No	15	0.008427	0.003259	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.00512	0.002676	0.05	No	16	0.004017	0.002087	6.25	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	15	0.00846	0.00334	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.006459	0.003525	0.05	No	16	0.004992	0.002255	6.25	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	15	0.00616	0.00431	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	15	0.009033	0.002567	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	15	0.007127	0.004206	66.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.0234	0.01368	0.05	No	15	0.01854	0.007169	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0022	0.05	No	15	0.007793	0.003799	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	15	0.0058	0.003265	33.33	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0073	0.05	No	15	0.008827	0.002656	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.05	0.0033	0.05	No	15	0.01109	0.01125	73.33	None	No	0.01	NP (normality)
Thallium (mg/L)	GWA-7 (bg)	0.001	0.001	0.002	No	11	0.0009545	0.0001508	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWA-8 (bg)	0.001	0.00006	0.002	No	11	0.0007429	0.0004403	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	11	0.0007416	0.0004425	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	11	0.0005925	0.0004693	54.55	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00013	0.002	No	11	0.0004073	0.0003839	27.27	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	11	0.00083	0.0003782	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	11	0.0008282	0.0003823	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000066	0.002	No	11	0.0004998	0.0004791	45.45	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.00011	0.002	No	12	0.0009258	0.0002569	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	11	0.0009136	0.0002864	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000065	0.002	No	11	0.0006646	0.0004654	63.64	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	11	0.0008309	0.0003762	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	11	0.0008515	0.0003351	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)

Confidence Interval Summary Table (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes 15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes 16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes 15	0.3261	0.07248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.1	Yes 11	0.1547	0.06085	0	None	No	0.01	Param.

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7 (bg)	0.003	0.0013	0.006	No	15	0.002513	0.0008568	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWA-8 (bg)	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0005	0.006	No	15	0.001877	0.001249	53.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	14	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	15	0.002927	0.000284	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00049	0.006	No	15	0.002663	0.0008903	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	15	0.002729	0.0007552	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.00054	0.006	No	15	0.002836	0.0006352	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWA-7 (bg)	0.01379	0.004635	0.0287	No	12	0.009508	0.00692	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWA-8 (bg)	0.005	0.0006	0.0287	No	16	0.003391	0.00215	62.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-1	0.0042	0.0015	0.0287	No	14	0.004343	0.006598	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	15	0.005	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0009	0.0287	No	15	0.004153	0.001754	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	15	0.004412	0.001552	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.0026	0.0018	0.0287	No	16	0.002271	0.0008184	6.25	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes	15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes	16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0009	0.0287	No	15	0.002521	0.001835	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.0287	No	15	0.004129	0.001807	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes	15	0.3261	0.07248	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005955	0.00332	0.0287	No	15	0.004067	0.001312	40	Cohen's d	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	15	0.002705	0.002021	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.0287	No	15	0.004723	0.001074	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003147	0.001641	0.0287	No	15	0.002457	0.001208	13.33	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.005	0.0009	0.0287	No	15	0.002487	0.001924	26.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWB-6R	0.005	0.0011	0.0287	No	15	0.002829	0.001743	33.33	None	No	0.01	NP (Cohens/xfrm)
Barium (mg/L)	GWA-7 (bg)	0.1545	0.0802	2	No	14	0.1174	0.05248	0	None	No	0.01	Param.
Barium (mg/L)	GWA-8 (bg)	0.0664	0.06025	2	No	16	0.06333	0.00472	0	None	No	0.01	Param.
Barium (mg/L)	GWC-1	0.0575	0.04982	2	No	15	0.05366	0.005669	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1125	0.05506	2	No	15	0.08379	0.0424	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0191	0.0162	2	No	15	0.01847	0.003995	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02474	0.01968	2	No	15	0.02221	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0248	2	No	16	0.03726	0.01953	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.049	0.04021	2	No	15	0.04461	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1049	0.05422	2	No	14	0.08131	0.0372	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-17	0.1245	0.04703	2	No	15	0.09051	0.06112	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.057	0.049	2	No	14	0.05407	0.008399	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.148	0.078	2	No	15	0.1071	0.03885	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-21	0.07381	0.05031	2	No	15	0.06206	0.01734	0	None	No	0.01	Param.
Barium (mg/L)	GWC-22	0.09974	0.06378	2	No	15	0.08279	0.0285	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-9	0.2743	0.1982	2	No	15	0.2363	0.05612	0	None	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09633	0.07886	2	No	15	0.08759	0.01289	0	None	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1628	0.09057	2	No	15	0.1294	0.05934	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	15	0.07353	0.04511	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWA-7 (bg)	0.003	0.0002	0.004	No	8	0.001225	0.001208	25	None	No	0.004	NP (Cohens/xfrm)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWA-8 (bg)	0.00024	0.0002	0.004	No	11	0.0004564	0.0008438	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-12	0.000918	0.0005275	0.004	No	11	0.0007227	0.0002343	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	11	0.002733	0.000887	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	11	0.002205	0.001362	72.73	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	11	0.001147	0.001469	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-17	0.003159	0.001658	0.004	No	11	0.002427	0.0009318	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.00009	0.004	No	12	0.00229	0.001286	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	11	0.001433	0.001501	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	11	0.0002582	0.00004916	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	11	0.001445	0.001491	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-5R	0.003	0.0001	0.004	No	11	0.0007051	0.001137	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWA-7 (bg)	0.0025	0.0001	0.005	No	9	0.002033	0.0009381	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	GWA-8 (bg)	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	11	0.002061	0.0009769	81.82	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007221	0.0001598	0.005	No	11	0.0005255	0.0006754	9.091	None	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	11	0.001234	0.001213	45.45	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	12	0.0025	0	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	11	0.0008245	0.001083	27.27	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	11	0.001644	0.001189	63.64	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Chromium (mg/L)	GWA-7 (bg)	0.04592	0.02183	0.1	No	14	0.03387	0.017	0	None	No	0.01	Param.
Chromium (mg/L)	GWA-8 (bg)	0.01	0.0006	0.1	No	16	0.007657	0.004192	75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	15	0.002653	0.002337	6.667	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	15	0.005071	0.004747	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	15	0.003005	0.00365	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	15	0.005792	0.004666	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.00074	0.1	No	16	0.003754	0.004355	31.25	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	15	0.004787	0.004412	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	16	0.005468	0.004682	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	15	0.004343	0.004295	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.00065	0.1	No	15	0.005669	0.004794	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	15	0.005159	0.004688	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	15	0.005641	0.004824	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	15	0.005612	0.004856	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.001	0.1	No	15	0.004793	0.004418	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01066	0.004643	0.1	No	15	0.007653	0.004442	0	None	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	15	0.009707	0.01775	26.67	None	No	0.01	NP (Cohens/xfm)
Chromium (mg/L)	GWB-6R	0.011	0.0013	0.1	No	15	0.005607	0.005891	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWA-7 (bg)	0.00677	0.00267	0.0102	No	10	0.00472	0.002298	0	None	No	0.01	Param.
Cobalt (mg/L)	GWA-8 (bg)	0.005	0.0004	0.0102	No	11	0.002095	0.002304	36.36	None	No	0.006	NP (normality)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001461	0.0009338	0.0102	No	11	0.001197	0.0003162	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-17	0.006889	0.003475	0.0102	No	11	0.005182	0.002048	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	12	0.003115	0.002339	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	11	0.002676	0.00223	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	9	0.001453	0.0003465	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	11	0.001509	0.001244	9.091	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.00053	0.0102	No	11	0.003548	0.001882	54.55	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.005	0.0102	No	11	0.00458	0.001393	90.91	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWA-7 (bg)	16.91	4.867	33.8	No	11	11.4	9.532	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWA-8 (bg)	2.886	1.863	33.8	No	11	2.375	0.6138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.45	1.595	33.8	No	11	2.023	0.5129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.309	2.104	33.8	No	11	4.207	2.523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.199	1.981	33.8	No	11	2.59	0.7307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.373	0.6802	33.8	No	11	1.026	0.4155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.353	0.8114	33.8	No	11	1.082	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.815	0.9742	33.8	No	11	1.395	0.5045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.13	1.72	33.8	No	11	2.042	0.7575	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.417	2.7	33.8	No	11	3.558	1.03	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.008	0.5555	33.8	No	11	0.7818	0.2716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	3.207	1.453	33.8	No	11	2.33	1.053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.862	1.039	33.8	No	11	1.451	0.4937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.261	4.254	33.8	No	11	5.757	1.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.327	2.194	33.8	No	11	3.362	1.746	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.32	33.8	No	11	3.632	1.278	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.833	1.921	33.8	No	11	2.971	1.568	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.613	1.962	33.8	No	11	3.287	1.591	0	None	No	0.01	Param.
Fluoride (mg/L)	GWA-7 (bg)	0.3628	0.1388	4	No	13	0.2508	0.1506	30.77	None	No	0.01	Param.
Fluoride (mg/L)	GWA-8 (bg)	0.269	0.09469	4	No	13	0.1724	0.1027	15.38	Cohen's d	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	13	0.2455	0.09649	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	13	0.3	0	100	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9234	0.3391	4	No	13	0.6312	0.3929	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	13	0.284	0.1172	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.3707	0.2416	4	No	13	0.3062	0.08685	53.85	None	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	13	0.2662	0.1082	61.54	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	13	0.3092	0.2106	46.15	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.5	0.6906	4	No	13	1.095	0.5444	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.07	4	No	13	0.2264	0.1614	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	13	0.2264	0.118	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	13	0.2824	0.06351	92.31	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	13	0.1977	0.1179	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3664	0.1032	4	No	13	0.2572	0.2511	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	13	0.3004	0.2966	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	13	0.1641	0.1206	38.46	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	13	0.1868	0.1042	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	GWA-7 (bg)	0.009351	0.003464	0.013	No	13	0.006408	0.003959	0	None	No	0.01	Param.
Lead (mg/L)	GWA-8 (bg)	0.005	0.0001	0.013	No	16	0.003169	0.002442	62.5	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.005	0.00012	0.013	No	15	0.004348	0.001721	86.67	None	No	0.01	NP (NDs)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.00036	0.0001	0.013	No	14	0.00058	0.001274	7.143	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000081	0.013	No	15	0.001983	0.002358	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00017	0.013	No	15	0.002021	0.002208	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.005	0.00051	0.013	No	16	0.003799	0.00215	75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.013	No	15	0.002756	0.002484	53.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-16	0.005	0.0001	0.013	No	16	0.002271	0.002486	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.013	No	15	0.003422	0.002317	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.0002	0.013	No	15	0.00339	0.002358	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.0001	0.013	No	15	0.003374	0.00238	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.013	No	15	0.003046	0.002477	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001163	0.0003349	0.013	No	15	0.001011	0.001307	6.667	None	In(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.0001	0.013	No	15	0.003091	0.002425	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.006465	0.00267	0.013	No	14	0.004567	0.002679	14.29	None	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0002	0.013	No	15	0.00242	0.002266	40	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.013	No	15	0.002544	0.002389	46.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWA-7 (bg)	0.03	0.03	0.04	No	6	0.03	0	100	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWA-8 (bg)	0.03	0.001	0.04	No	11	0.01948	0.0146	63.64	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	11	0.01683	0.01513	54.55	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-17	0.007283	0.005226	0.04	No	11	0.006255	0.001234	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.04	No	12	0.03	0	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-9	0.002162	0.001798	0.04	No	10	0.00198	0.0002044	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.04	No	11	0.0073	0.00417	0	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0027	0.04	No	11	0.01333	0.01325	36.36	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWA-7 (bg)	0.0005	0.0001	0.002	No	10	0.000381	0.000194	70	None	No	0.011	NP (normality)
Mercury (mg/L)	GWA-8 (bg)	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	0.000454	0.0001455	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	0.000463	0.000117	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	0.000455	0.0001423	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	0.0004549	0.0001426	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	0.0004543	0.0001445	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWA-7 (bg)	0.01	0.0013	0.1	No	8	0.0078	0.004012	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GWA-8 (bg)	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.1	No	11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.1	No	11	0.009255	0.002472	90.91	None	No	0.006	NP (NDs)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.1	No	11	0.0096	0.001327	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.028	0.0022	0.1	No	10	0.00946	0.01198	0	None	No	0.011	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.1	No	11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.1	Yes	11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.0036	0.1	No	11	0.008182	0.003136	72.73	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.1	No	12	0.01	0	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.1	No	11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.1	No	11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.1	No	11	0.04843	0.04052	0	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.01	0.1	No	11	0.0092	0.002653	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.01	0.1	No	11	0.009327	0.002231	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	GWA-7 (bg)	0.03164	0.01103	0.05	No	11	0.02134	0.01237	0	None	No	0.01	Param.
Selenium (mg/L)	GWA-8 (bg)	0.01	0.0013	0.05	No	16	0.008894	0.003023	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	15	0.004147	0.005656	6.667	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	15	0.009033	0.005691	26.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.0025	0.05	No	15	0.008427	0.003259	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.00512	0.002676	0.05	No	16	0.004017	0.002087	6.25	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	15	0.00846	0.00334	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.006459	0.003525	0.05	No	16	0.004992	0.002255	6.25	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	15	0.00616	0.00431	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	15	0.009033	0.002567	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	15	0.007127	0.004206	66.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.0234	0.01368	0.05	No	15	0.01854	0.007169	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0022	0.05	No	15	0.007793	0.003799	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	15	0.0058	0.003265	33.33	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0073	0.05	No	15	0.008827	0.002656	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.05	0.0033	0.05	No	15	0.01109	0.01125	73.33	None	No	0.01	NP (normality)
Thallium (mg/L)	GWA-7 (bg)	0.001	0.001	0.002	No	11	0.0009545	0.0001508	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWA-8 (bg)	0.001	0.00006	0.002	No	11	0.0007429	0.0004403	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	11	0.0007416	0.0004425	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	11	0.0005925	0.0004693	54.55	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00013	0.002	No	11	0.0004073	0.0003839	27.27	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	11	0.00083	0.0003782	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	11	0.0008282	0.0003823	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000066	0.002	No	11	0.0004998	0.0004791	45.45	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.00011	0.002	No	12	0.0009258	0.0002569	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	11	0.0009136	0.0002864	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000065	0.002	No	11	0.0006646	0.0004654	63.64	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	11	0.0008309	0.0003762	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	11	0.0008515	0.0003351	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:33 PM

GWC-12 Antimony (mg/L) GWA-7 Arsenic (mg/L) GWC-1 Arsenic (mg/L) GWA-7 Barium (mg/L) GWC-16 Barium (mg/L) GWC-2 Barium (mg/L) GWA-7 Beryllium (mg/L) GWC-15 Boron (mg/L) GWC-9 Boron (mg/L) GWA-7 Cadmium (mg/L)

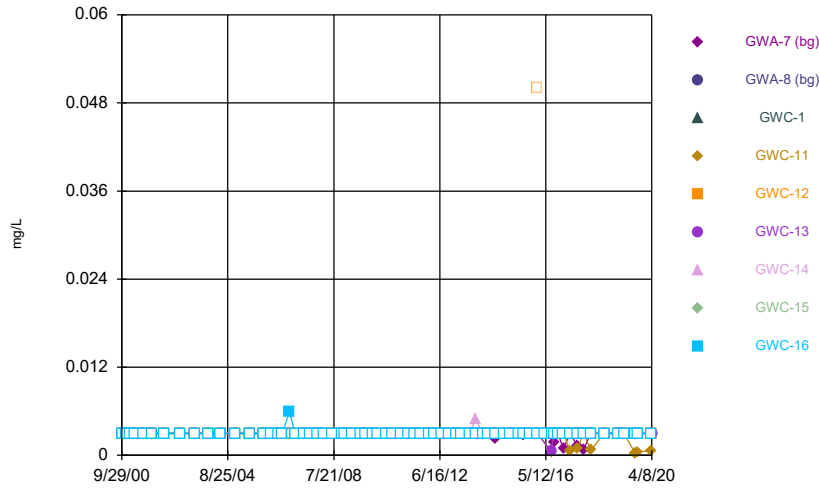
Date	GWC-12 Antimony (mg/L)	GWA-7 Arsenic (mg/L)	GWC-1 Arsenic (mg/L)	GWA-7 Barium (mg/L)	GWC-16 Barium (mg/L)	GWC-2 Barium (mg/L)	GWA-7 Beryllium (mg/L)	GWC-15 Boron (mg/L)	GWC-9 Boron (mg/L)	GWA-7 Cadmium (mg/L)
1/17/2016			0.024 (o)							
1/18/2016	<0.003 (o)									
8/31/2016								0.096 (J,o)		
9/1/2016				0.415 (o)				9.01 (o)		
10/26/2016						0.113 (o)				
10/3/2017				0.135 (o)						
10/4/2017										
1/9/2018										
7/9/2018										
7/10/2018				0.16 (o)						
7/11/2018	<0.025 (o)						<0.015 (o)			
1/16/2019	<0.025 (o)									
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
8/26/2019							<0.015 (o)		<0.012 (o)	
10/8/2019							<0.015 (o)		<0.012 (o)	
4/6/2020	<0.025 (o)									

GWC-13 Calcium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Cobalt (mg/L) GWC-9 Cobalt (mg/L) GWA-7 Lead (mg/L) GWC-11 Lead (mg/L) GWA-4R Lead (mg/L) GWA-7 Lithium (mg/L) GWC-9 Lithium (mg/L) GWA-7 Molybdenum (mg/L)

Date	GWC-13 Calcium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Cobalt (mg/L)	GWC-9 Cobalt (mg/L)	GWA-7 Lead (mg/L)	GWC-11 Lead (mg/L)	GWA-4R Lead (mg/L)	GWA-7 Lithium (mg/L)	GWC-9 Lithium (mg/L)	GWA-7 Molybdenum (mg/L)
1/17/2016										
1/18/2016										
8/31/2016	2.77 (o)			0.0021 (J,o)					<0.05 (o)	
9/1/2016		0.119 (o)			0.0663 (o)		0.0166 (o)			
10/26/2016										
10/3/2017										
10/4/2017				0.0015 (J,o)						
1/9/2018								<0.15 (o)		
7/9/2018										
7/10/2018										
7/11/2018		<0.05 (o)			<0.005 (o)		<0.15 (o)		<0.05 (o)	
1/16/2019				<0.025 (o)						
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
8/26/2019								<0.15 (o)	<0.05 (o)	
10/8/2019								<0.15 (o)	<0.05 (o)	
4/6/2020								<0.15 (o)		

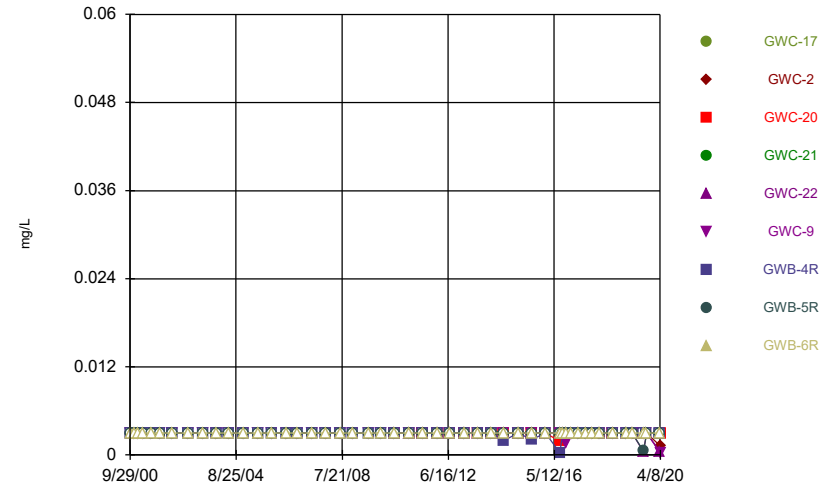
FIGURE A.

Time Series



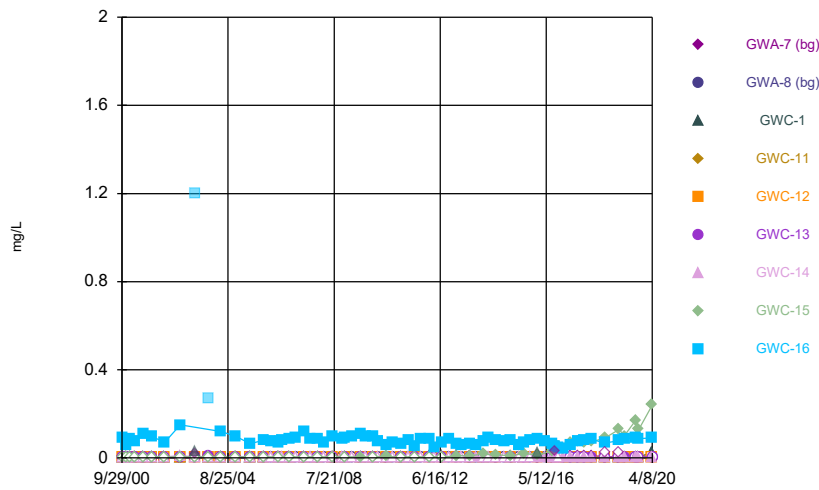
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



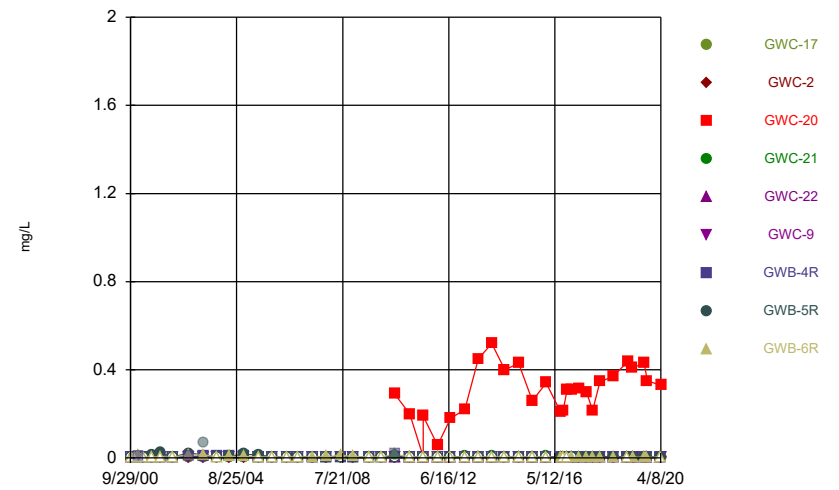
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



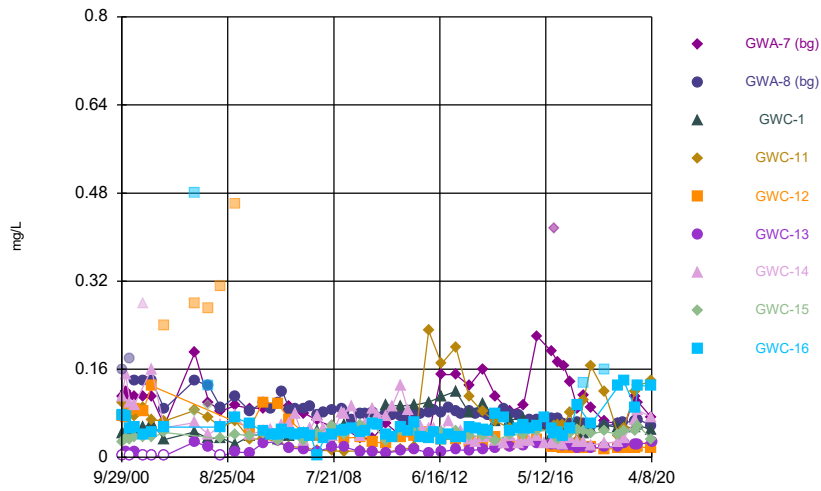
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



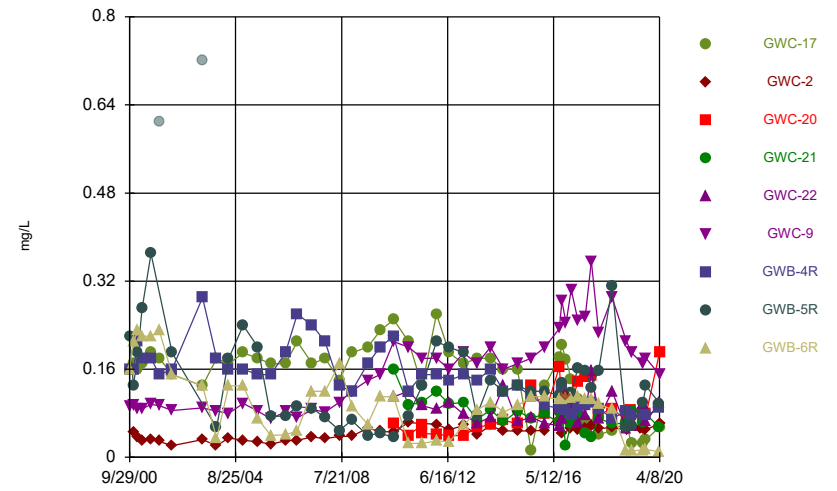
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



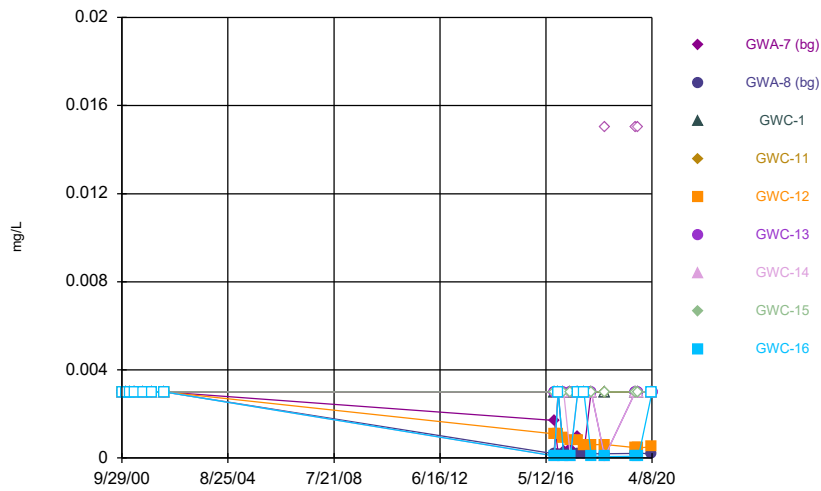
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



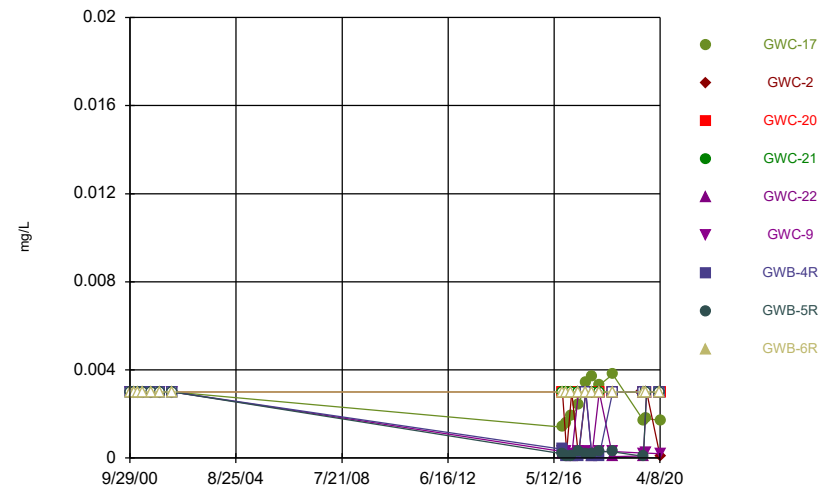
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



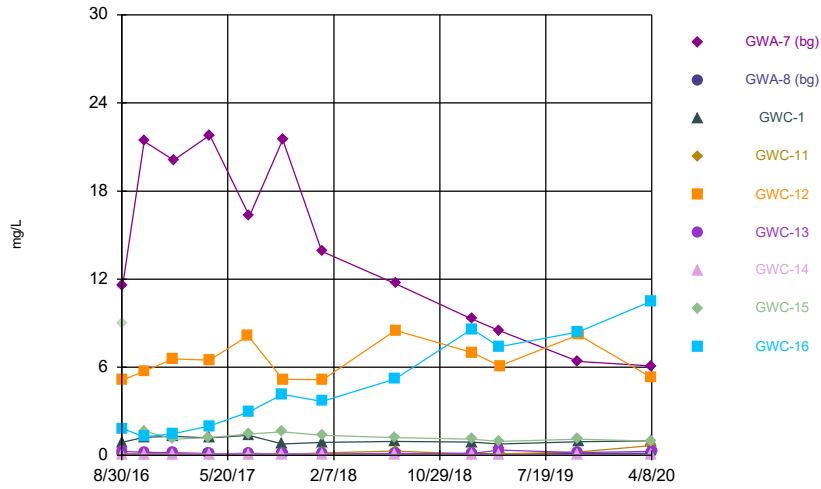
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



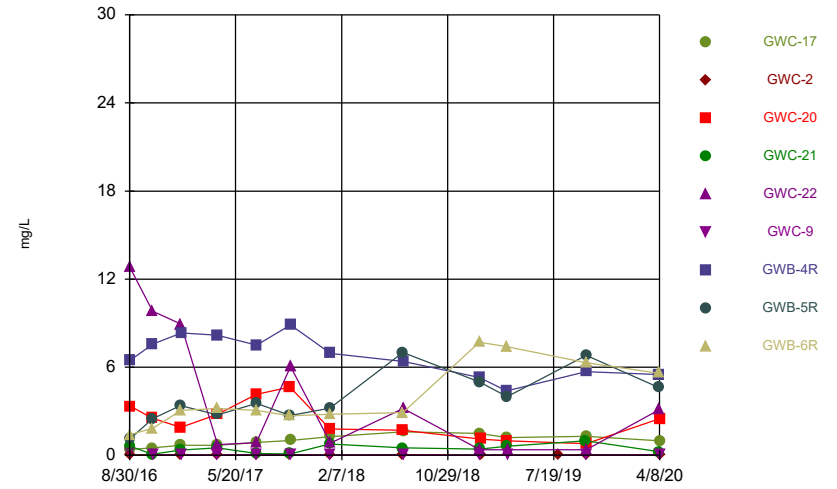
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Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



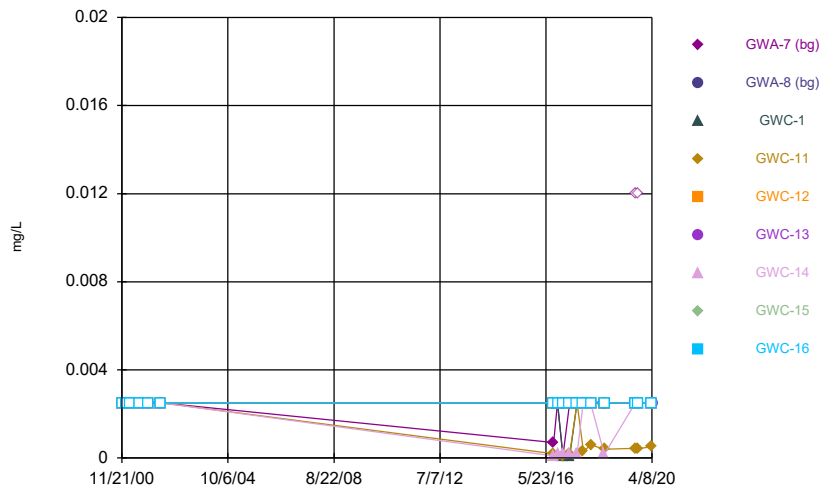
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



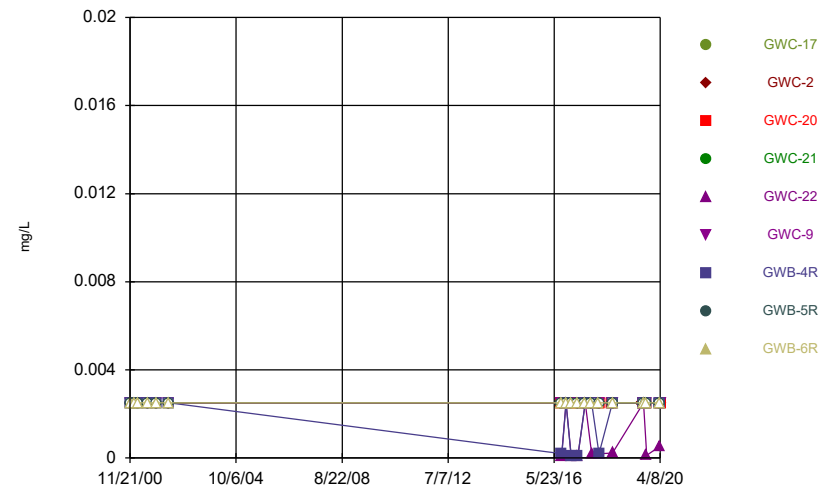
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



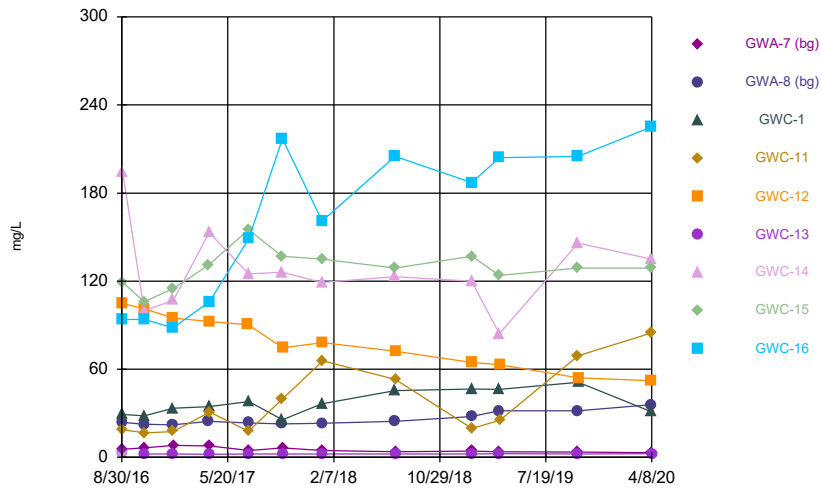
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



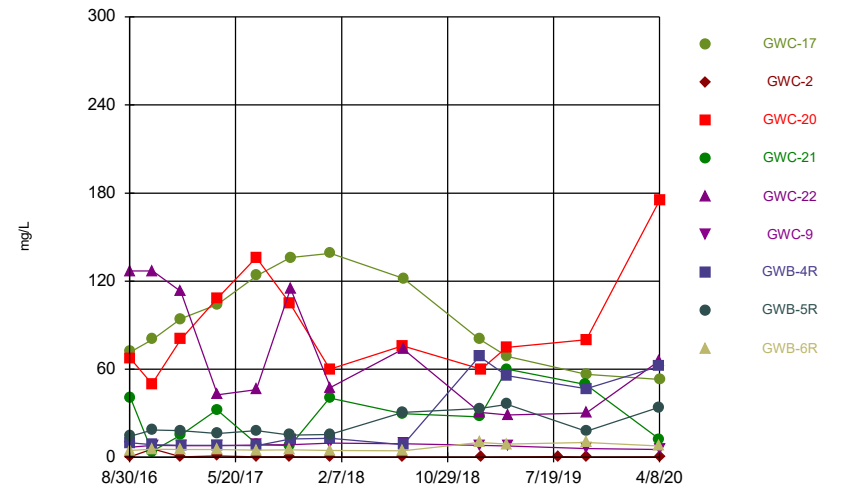
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



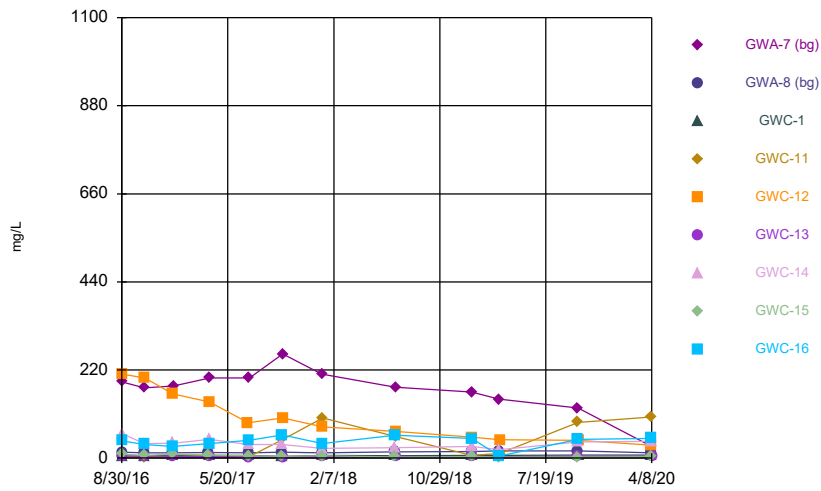
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



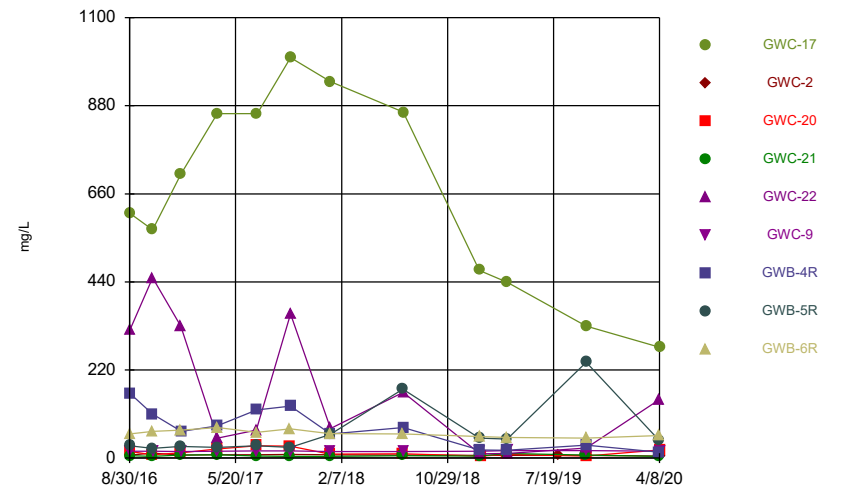
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 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



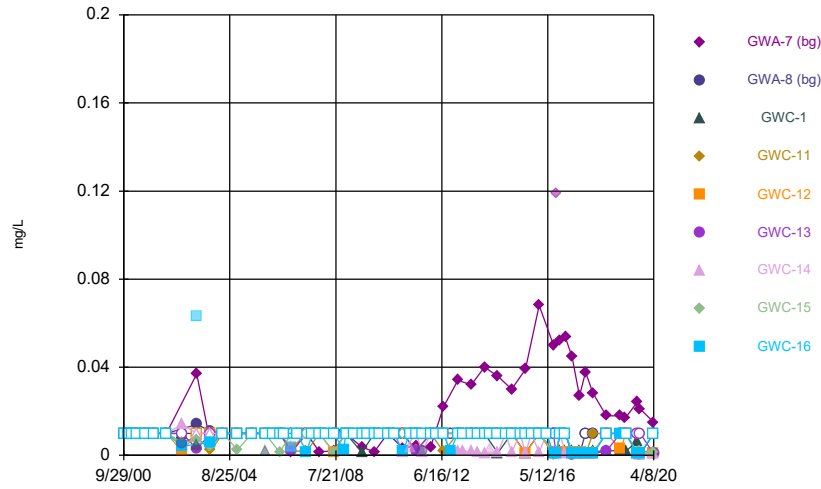
Constituent: Chloride Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



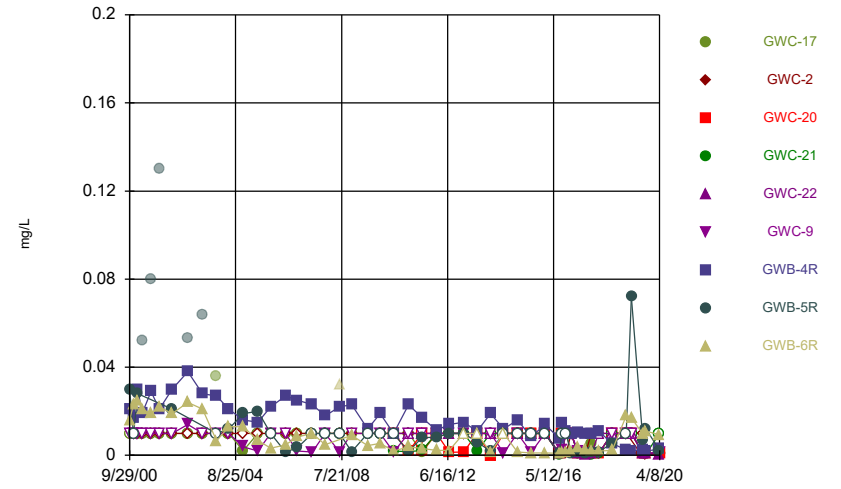
Constituent: Chloride Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



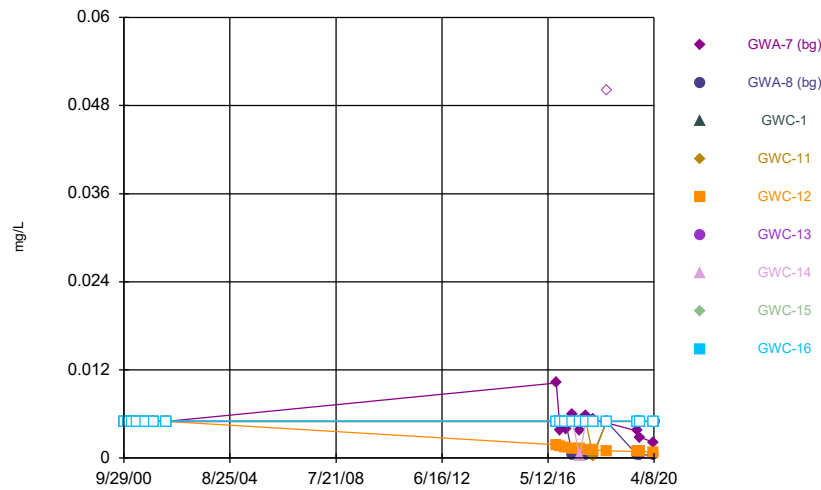
Constituent: Chromium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



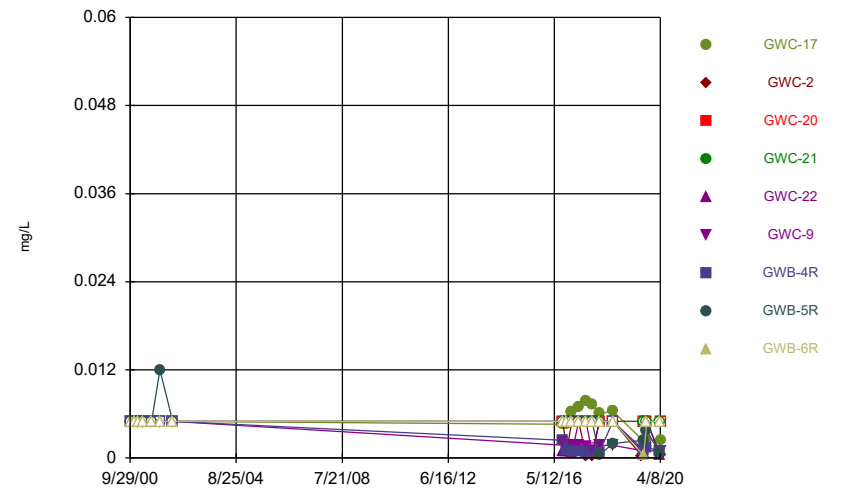
Constituent: Chromium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



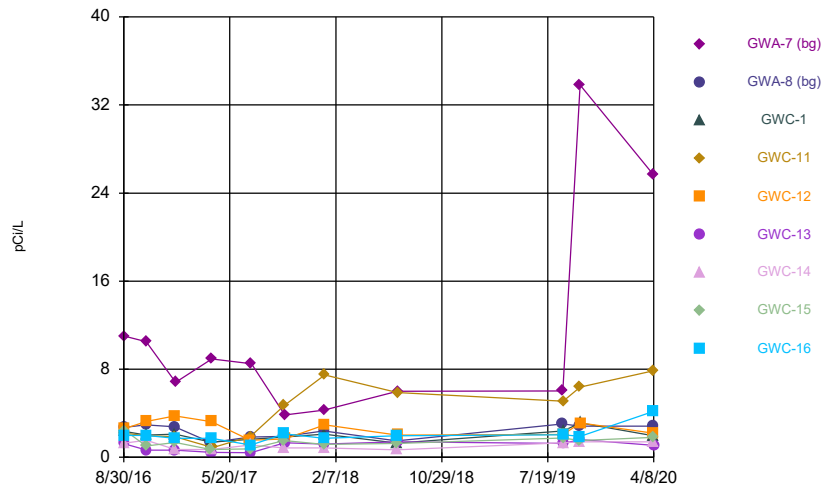
Constituent: Cobalt Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



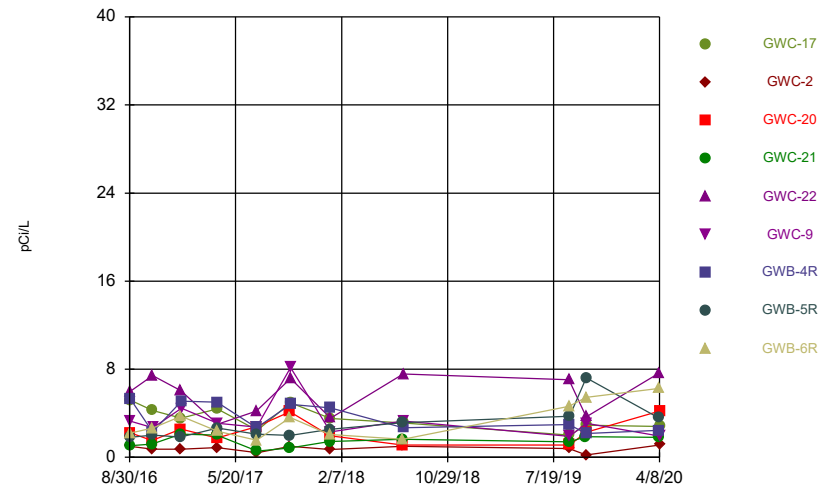
Constituent: Cobalt Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



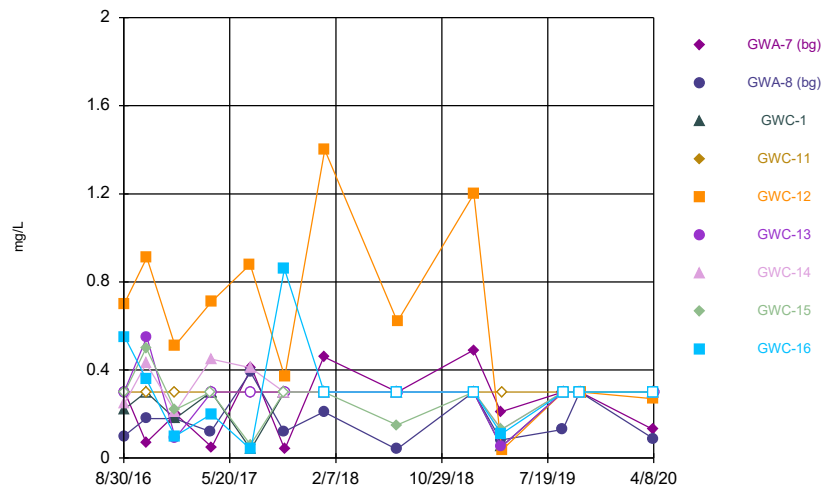
Constituent: Combined Radium 226 + 228 Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



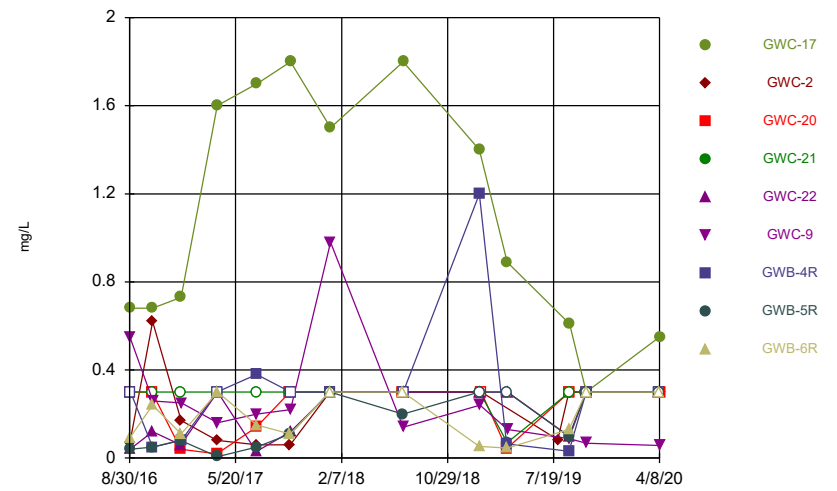
Constituent: Combined Radium 226 + 228 Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



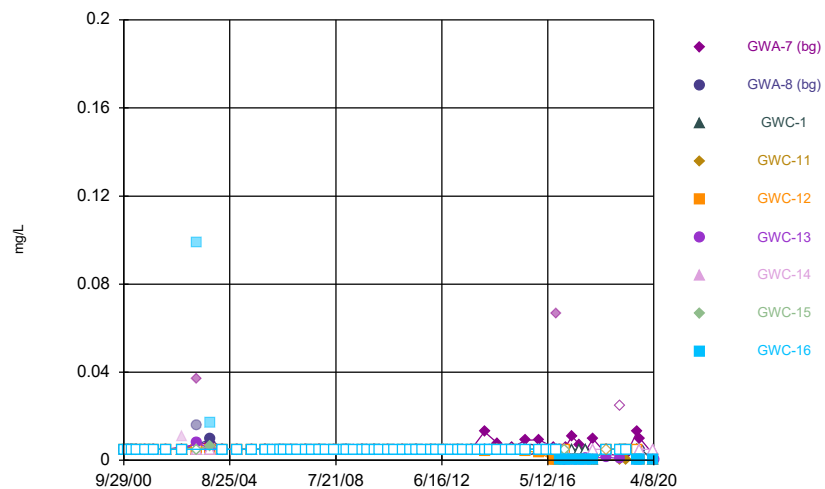
Constituent: Fluoride Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



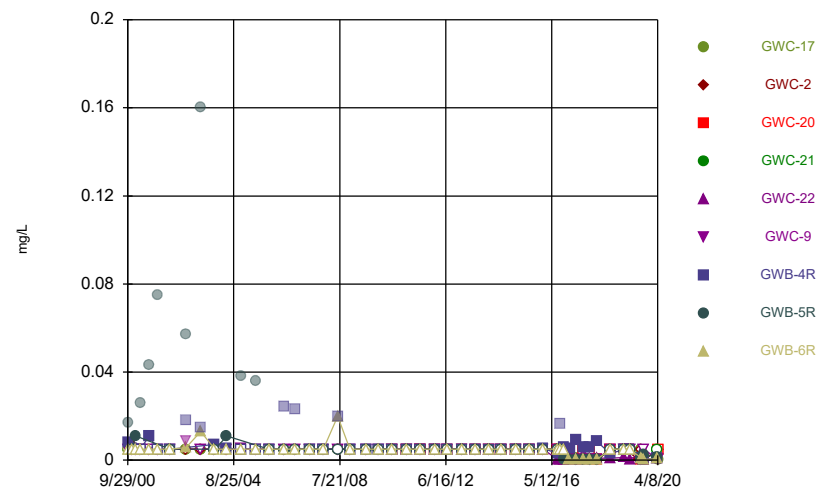
Constituent: Fluoride Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



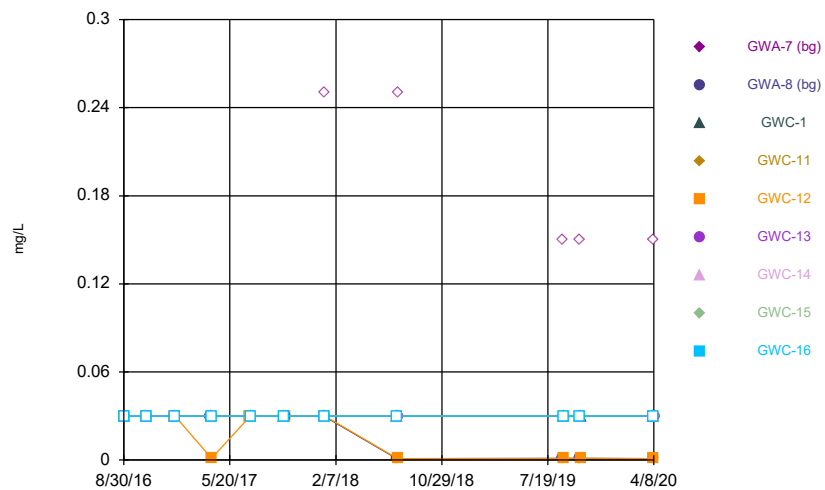
Constituent: Lead Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



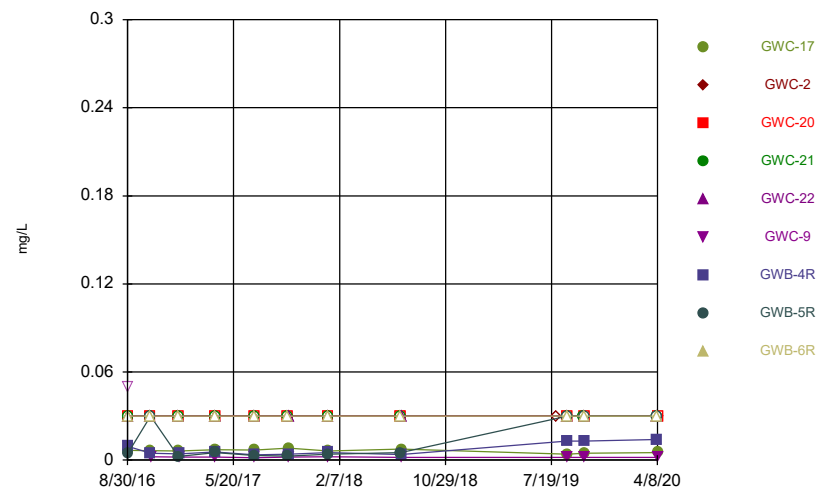
Constituent: Lead Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



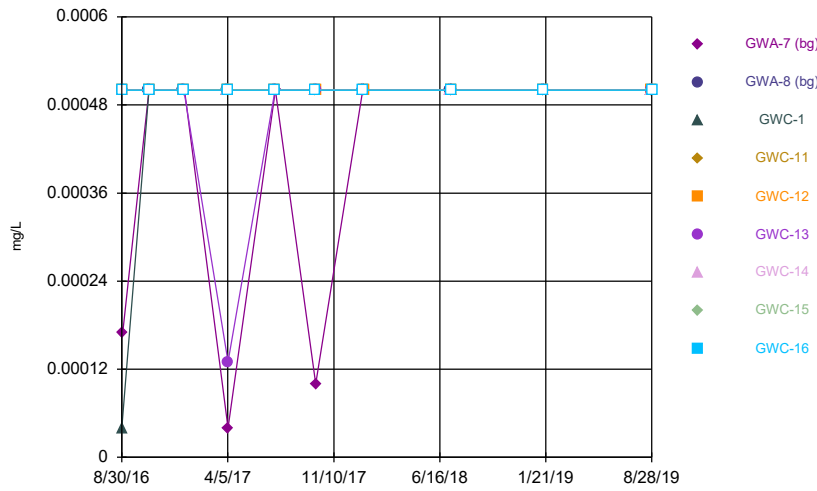
Constituent: Lithium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



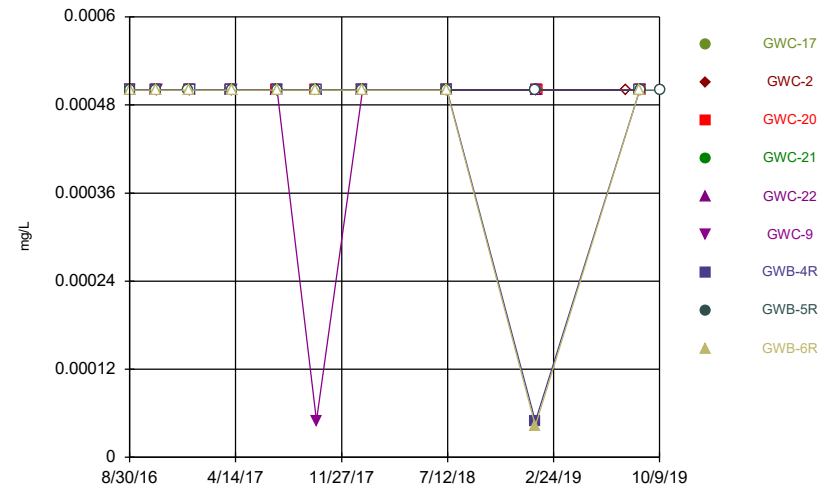
Constituent: Lithium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



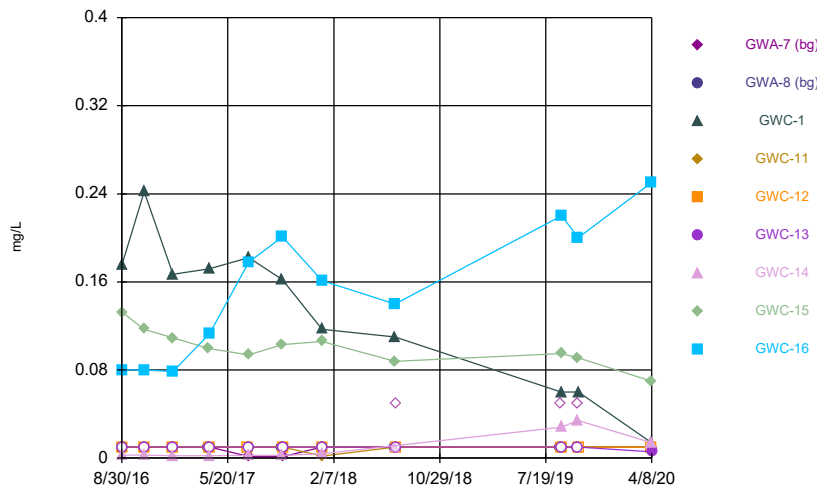
Constituent: Mercury Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



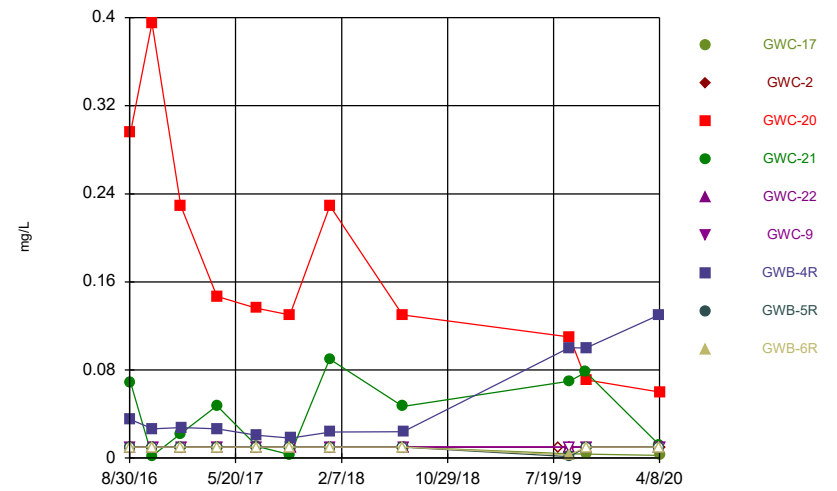
Constituent: Mercury Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



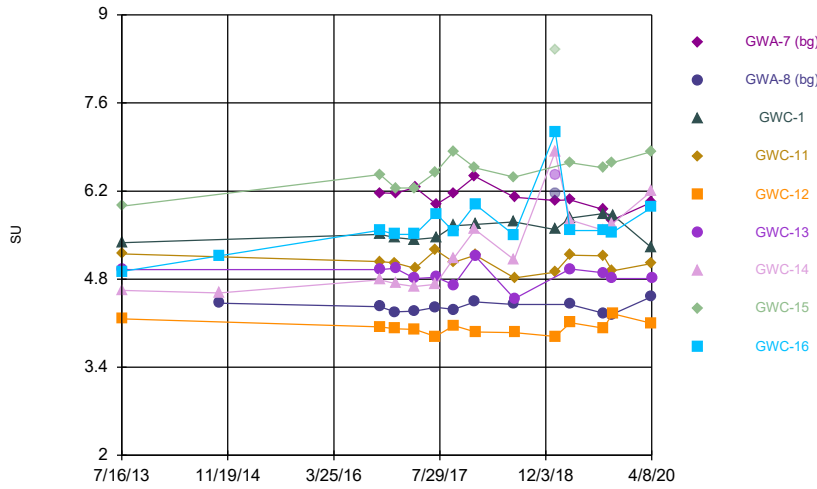
Constituent: Molybdenum Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



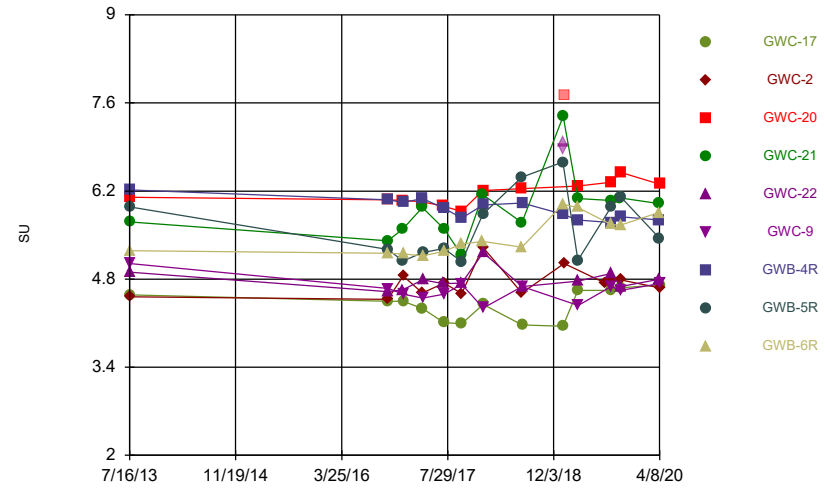
Constituent: Molybdenum Analysis Run 5/25/2020 9:13 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



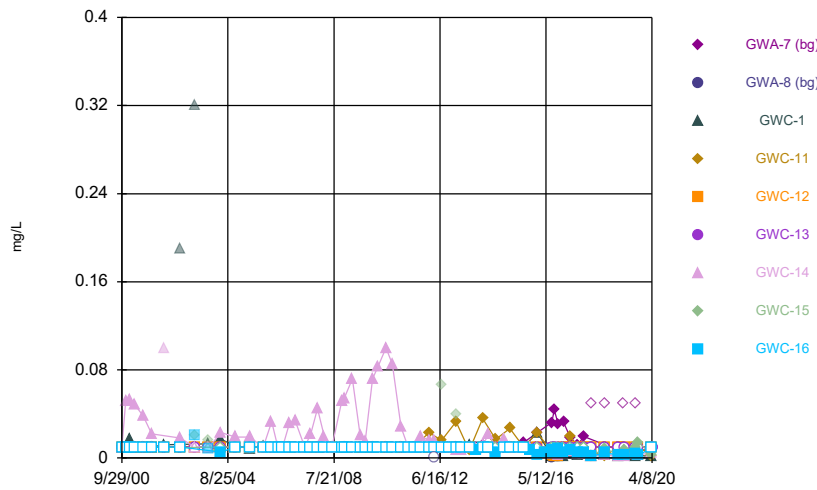
Constituent: pH Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



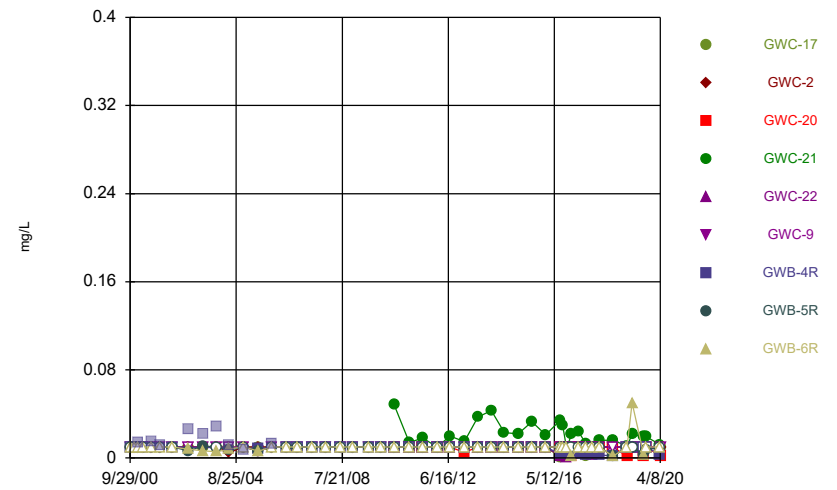
Constituent: pH Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



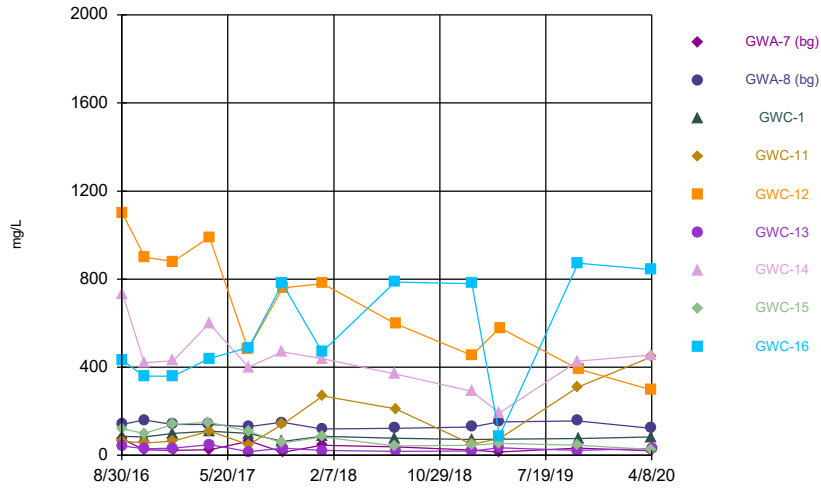
Constituent: Selenium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



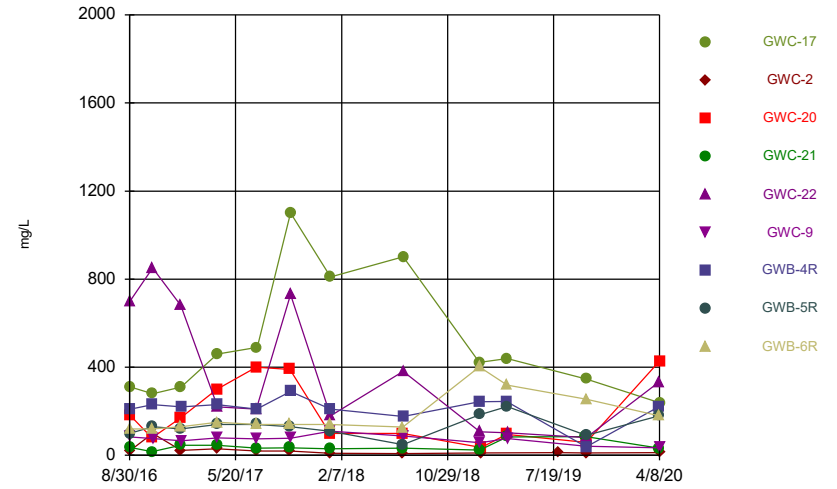
Constituent: Selenium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



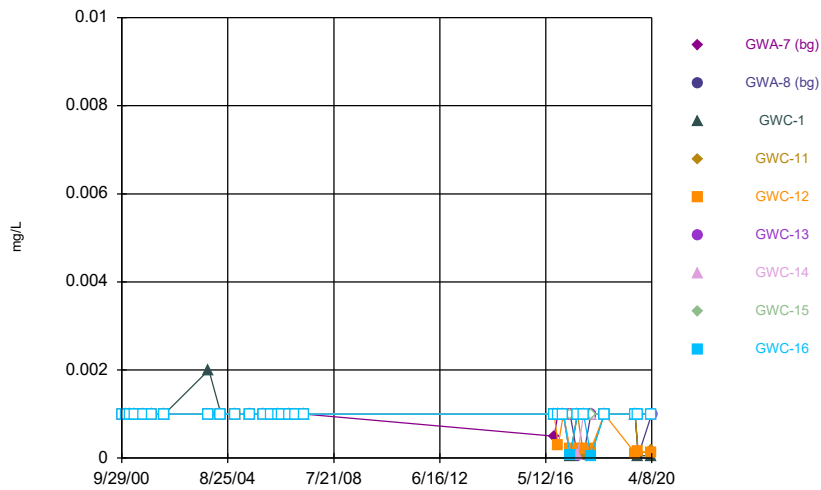
Constituent: Sulfate Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



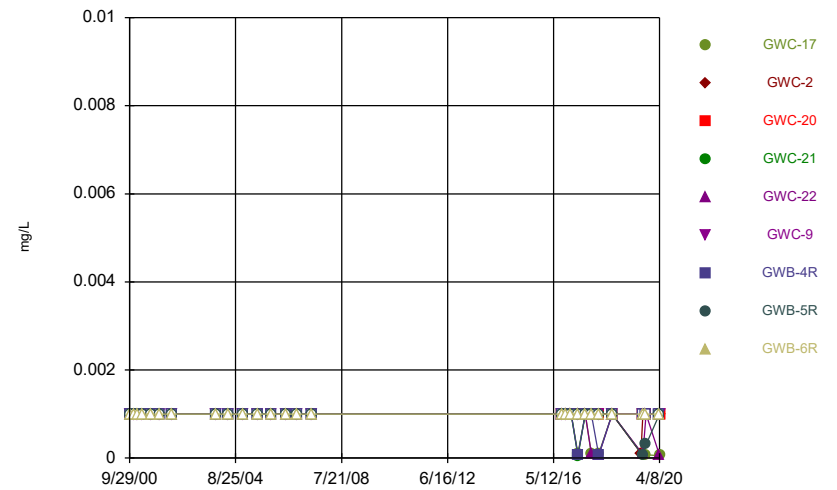
Constituent: Sulfate Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



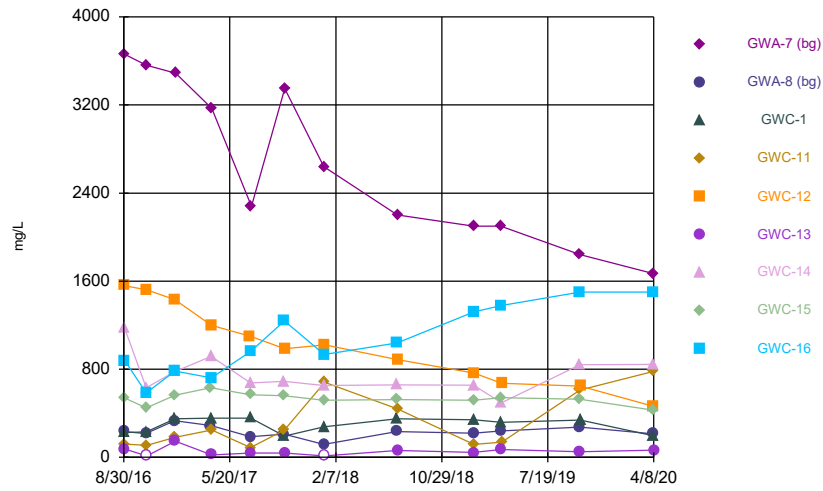
Constituent: Thallium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



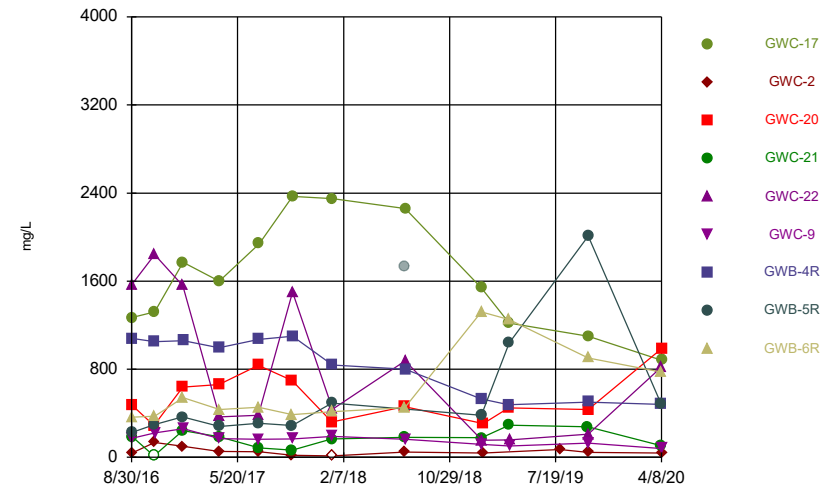
Constituent: Thallium Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/25/2020 9:13 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	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	<0.003	<0.003	<0.003
11/21/2000	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006		<0.003					<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		<0.003
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006
2/15/2007		<0.003					<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		<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		<0.003
6/23/2008	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
6/24/2008			<0.003				<0.003	<0.003	<0.003
11/3/2008		<0.003					<0.003		<0.003
12/4/2008	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003		<0.003
12/5/2008			<0.003					<0.003	<0.003
3/25/2009		<0.003					<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		<0.003
12/20/2009	<0.003	<0.003	<0.003				<0.003	<0.003	<0.003
12/21/2009				<0.003	<0.003	<0.003			
3/4/2010		<0.003					<0.003		<0.003
6/20/2010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
6/21/2010									<0.003
9/14/2010		<0.003					<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		<0.003
7/7/2011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/25/2011		<0.003					<0.003		<0.003
1/17/2012	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
1/18/2012									<0.003
4/4/2012		<0.003					<0.003		<0.003
7/9/2012	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
7/10/2012		<0.003							<0.003
10/9/2012		<0.003					<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
4/5/2013		<0.003					<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013			<0.003	<0.003	<0.003	<0.003			
7/17/2013	<0.003	<0.003					<0.003	<0.003	<0.003
10/11/2013		<0.003					0.005		<0.003
1/13/2014	<0.003		<0.003	<0.003	<0.003	<0.003		<0.003	
1/14/2014		<0.003					<0.003		<0.003
4/3/2014		<0.003					<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
10/24/2014		<0.003					<0.003		<0.003
1/13/2015	<0.003		<0.003	<0.003	<0.003	<0.003		<0.003	
1/14/2015		<0.003					<0.003		<0.003
5/10/2015		<0.003					<0.003		
5/11/2015									<0.003
7/16/2015	0.0028 (J)		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
7/17/2015		<0.003					<0.003		
10/6/2015		<0.003					<0.003		<0.003
1/17/2016			<0.003				<0.003	<0.003	<0.003
1/18/2016	<0.003	<0.003			<0.05 (o)	<0.003			
1/19/2016				<0.003					
4/26/2016		<0.003					<0.003		<0.003
7/26/2016				0.0005 (J)		0.0006 (J)			
7/27/2016	<0.003		<0.003		<0.003		<0.003	<0.003	
7/28/2016		<0.003							<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		<0.003							
10/25/2016	<0.003		<0.003				<0.003	<0.003	<0.003
10/26/2016				<0.003	<0.003	<0.003			
1/3/2017		<0.003							
1/4/2017			<0.003	<0.003	<0.003				<0.003
1/5/2017							<0.003	<0.003	
1/6/2017	0.0009 (J)								
4/3/2017		<0.003						<0.003	
4/4/2017			<0.003				<0.003		
4/5/2017					<0.003				<0.003
4/6/2017	<0.003			0.0006 (J)		<0.003			
7/10/2017					<0.003				
7/11/2017		<0.003		0.0009 (J)			<0.003	<0.003	
7/12/2017			<0.003						<0.003
7/13/2017	0.0013 (J)								
10/2/2017		<0.003					<0.003	<0.003	
10/3/2017			<0.003	<0.003					<0.003
10/4/2017	0.0008 (J)				<0.003	<0.003			
1/9/2018	<0.003	<0.003					<0.003	<0.003	
1/10/2018			<0.003			<0.003			<0.003
1/11/2018				0.0007 (J)	<0.003				
7/9/2018		<0.003					<0.003		
7/10/2018			<0.003					<0.003	<0.003
7/11/2018	<0.003			<0.003	<0.003	<0.003			
1/16/2019	<0.003	<0.003	<0.003			<0.003	<0.003		
1/17/2019				<0.003	<0.003			<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/25/2019	<0.003	<0.003							
3/26/2019			<0.003			<0.003	<0.003	<0.003	<0.003
3/27/2019				<0.003	<0.003				
8/26/2019	<0.003	<0.003							
8/27/2019			<0.003	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	
8/28/2019									<0.003
10/7/2019		<0.003							
10/8/2019	<0.003			0.00046 (J)		<0.003	<0.003	<0.003	<0.003
10/9/2019			<0.003		<0.003				
4/6/2020	<0.003	<0.003							
4/7/2020			<0.003	0.00066 (J)	<0.003		<0.003	<0.003	<0.003
4/8/2020						<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.003					<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
11/20/2002	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
6/27/2006	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
12/4/2006	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
6/23/2007	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
12/11/2007	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
6/23/2008						<0.003			
6/24/2008	<0.003	<0.003					<0.003	<0.003	<0.003
12/4/2008		<0.003				<0.003			
12/5/2008	<0.003						<0.003	<0.003	<0.003
7/7/2009							<0.003	<0.003	<0.003
7/8/2009	<0.003	<0.003				<0.003			
12/20/2009		<0.003							
12/21/2009	<0.003					<0.003	<0.003	<0.003	<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		<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
7/7/2011			<0.003					<0.003	<0.003
7/8/2011	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		
1/17/2012		<0.003						<0.003	
1/18/2012	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
7/9/2012		<0.003						<0.003	
7/10/2012	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
1/17/2013		<0.003						<0.003	
1/18/2013	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
7/16/2013								<0.003	
7/17/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
1/13/2014		<0.003						<0.003	
1/14/2014	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
7/9/2014	<0.003	<0.003		<0.003	<0.003	<0.003	0.002 (J)	<0.003	<0.003
7/10/2014			<0.003		<0.003				
1/12/2015			<0.003				<0.003		
1/13/2015		<0.003						<0.003	
1/14/2015	<0.003			<0.003	<0.003	<0.003			<0.003
7/16/2015		<0.003					0.0021 (J)	<0.003	
7/17/2015				<0.003	<0.003	<0.003			<0.003
7/18/2015	<0.003		<0.003	<0.003	<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	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/27/2016		<0.003						<0.003	
7/28/2016			0.0019 (J)	<0.003		<0.003			<0.003
7/29/2016	<0.003				<0.003		0.0003 (J)		
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		
10/25/2016			<0.003	<0.003					
10/26/2016	<0.003	<0.003			<0.003		<0.003	<0.003	<0.003
10/27/2016						0.0016 (J)			
1/3/2017								<0.003	
1/4/2017			<0.003	<0.003	<0.003				
1/5/2017	<0.003	<0.003							<0.003
1/6/2017						<0.003	<0.003		
4/4/2017		<0.003	<0.003	<0.003			<0.003		
4/5/2017	<0.003								
4/6/2017					<0.003	<0.003		<0.003	<0.003
7/11/2017			<0.003		<0.003				
7/12/2017						<0.003	<0.003	<0.003	<0.003
7/13/2017	<0.003	<0.003		<0.003					
10/2/2017			<0.003						
10/3/2017		<0.003		<0.003				<0.003	<0.003
10/4/2017	<0.003				<0.003	<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				<0.003	<0.003	<0.003		
7/9/2018			<0.003						
7/10/2018		<0.003		<0.003				<0.003	<0.003
7/11/2018	<0.003				<0.003	<0.003	<0.003		
1/16/2019	<0.003						<0.003	<0.003	<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				<0.003		
3/26/2019	<0.003			<0.003				<0.003	<0.003
3/27/2019					<0.003	<0.003			
7/30/2019		<0.003							
8/27/2019		<0.003			0.00045 (J)		<0.003		<0.003
8/28/2019	<0.003		<0.003	<0.003		<0.003		0.00054 (J)	
10/8/2019				<0.003					
10/9/2019	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
4/7/2020				<0.003	0.00049 (J)		<0.003	<0.003	<0.003
4/8/2020	<0.003	0.0013 (J)	<0.003			0.00033 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.094
11/21/2000	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.059
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.087
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.075
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.11
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
11/20/2002		<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.15
6/6/2003	0.02 (o)	<0.005	0.03 (o)	<0.005	<0.005	<0.005	<0.005	<0.005	1.2 (o)
12/12/2003	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	0.12
12/7/2004	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	0.065
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081
4/4/2006		<0.005					<0.005		0.077
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
8/30/2006		<0.005					<0.005		0.08
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.085
2/15/2007		<0.005					<0.005		0.09
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
9/11/2007		<0.005					<0.005		0.088
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.088
3/11/2008		<0.005					<0.005		0.071
6/23/2008	<0.005	<0.005		<0.005	<0.005	<0.005			
6/24/2008			<0.005				<0.005	<0.005	0.097
11/3/2008		<0.005					<0.005		0.089
12/4/2008	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
12/5/2008			<0.005					<0.005	0.092
3/25/2009		<0.005					<0.005		0.095
7/7/2009	<0.005	<0.005	<0.005						
7/8/2009				<0.005	<0.005	<0.005	<0.005	0.0052	0.11
9/14/2009		<0.005					<0.005		0.099
12/20/2009	<0.005	<0.005	<0.005				<0.005	<0.005	0.1
12/21/2009				<0.005	<0.005	<0.005			
3/4/2010		<0.005					<0.005		0.074
6/20/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0068	
6/21/2010									0.056
9/14/2010		<0.005					<0.005		0.067
1/6/2011			<0.005	<0.005		<0.005			
1/7/2011	<0.005	<0.005			<0.005		<0.005	<0.005	0.066
4/15/2011		<0.005					<0.005		0.08
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.054
9/25/2011		<0.005					<0.005		0.085
1/17/2012	<0.005	<0.005	0.0071	<0.005	<0.005	<0.005	<0.005	<0.005	
1/18/2012									0.089
4/4/2012		<0.005					<0.005		0.0473
7/9/2012	0.0052		0.0076	<0.005	<0.005	<0.005	<0.005	<0.005	
7/10/2012		<0.005							0.07
10/9/2012		<0.005					<0.005		0.088
1/17/2013			0.0086	<0.005	<0.005	<0.005			
1/18/2013	0.0087	<0.005					<0.005	0.0089	0.063
4/5/2013		<0.005					<0.005		0.06

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013			<0.005	<0.005	<0.005	<0.005			
7/17/2013	0.0084	<0.005					<0.005	0.011	0.063
10/11/2013		<0.005					0.005		0.059
1/13/2014	0.009		<0.005	<0.005	<0.005	<0.005		0.017	
1/14/2014		<0.005					<0.005		0.077
4/3/2014		<0.005					<0.005		0.091
7/8/2014				<0.005	<0.005	<0.005			
7/9/2014	0.008	<0.005	0.0022 (J)				<0.005	0.014	0.08
10/24/2014		<0.005					<0.005		0.073
1/13/2015	0.0077		<0.005	<0.005	<0.005	<0.005		0.011	
1/14/2015		<0.005					<0.005		0.079
5/10/2015		<0.005					<0.005		
5/11/2015									0.058
7/16/2015	0.0077		0.0037 (J)	<0.005	<0.005	<0.005		0.02	0.068
7/17/2015		<0.005					<0.005		
10/6/2015		<0.005					<0.005		0.078
1/17/2016			0.024 (o)				0.002 (J)	0.014	0.089
1/18/2016	0.014	<0.005			<0.005	<0.005			
1/19/2016				<0.005					
4/26/2016		0.0011 (J)					0.00183 (J)		0.0731
7/26/2016				<0.005		<0.005			
7/27/2016	0.0111		0.0046 (J)		<0.005		0.0021 (J)	0.0303	
7/28/2016		<0.005							0.0627
8/30/2016		<0.005	0.0023 (J)						
8/31/2016				<0.005	<0.005	<0.005			
9/1/2016	0.0287 (o)						0.0024 (J)	0.0533	0.0551
10/24/2016		<0.005							
10/25/2016	0.0069		0.0035 (J)				<0.005	0.0551	0.0466
10/26/2016				<0.005	<0.005	<0.005			
1/3/2017		<0.005							
1/4/2017			0.0018 (J)	<0.005	<0.005				0.0444
1/5/2017							<0.005	0.0024 (J)	0.0437
1/6/2017	0.0097								
4/3/2017		0.0006 (J)						0.0713	
4/4/2017			0.0015 (J)				0.003 (J)		
4/5/2017					0.0006 (J)				0.0591
4/6/2017	0.0104			<0.005		<0.005			
7/10/2017					0.0008 (J)				
7/11/2017		0.0006 (J)		<0.005			0.0019 (J)	0.0745	
7/12/2017			0.0015 (J)			<0.005			0.0776
7/13/2017	0.0064								
10/2/2017		0.0006 (J)					0.0026 (J)	0.0723	
10/3/2017			0.0013 (J)	<0.005					0.0813
10/4/2017	0.0078				0.0009 (J)	<0.005			
1/9/2018	0.0091 (J)	0.0009 (J)					0.0021 (J)	0.0731	
1/10/2018			0.0023 (J)			0.0006 (J)			0.085
1/11/2018				<0.005	<0.005				
7/9/2018		<0.005					0.0019 (J)		
7/10/2018			0.0031 (J)					0.09	0.067
7/11/2018	<0.025 (o)			<0.005	<0.005	<0.005			
1/16/2019	<0.025 (o)	<0.005	0.0023 (J)			<0.005	0.0016 (J)		
1/17/2019				<0.005	<0.005			0.13	0.079

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/25/2020 9:32 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/25/2019	0.0029 (J)	<0.005							
3/26/2019			0.0032 (J)			0.00058 (J)	0.0023 (J)	0.1	0.089
3/27/2019				<0.005	<0.005				
8/26/2019	0.0041 (J)	<0.005							
8/27/2019			0.0022 (J)	<0.005	<0.005	<0.005	0.0017 (J)	0.17	
8/28/2019									0.091
10/7/2019		<0.005							
10/8/2019	0.003 (J)			<0.005		<0.005	0.0017 (J)	0.13	0.088
10/9/2019			0.0042 (J)		<0.005				
4/6/2020	<0.005	0.00045 (J)							
4/7/2020			0.027	<0.005	<0.005		0.0018 (J)	0.24	0.091
4/8/2020						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
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	<0.005
1/20/2001	<0.005	<0.005				<0.005	0.01 (o)	<0.005	0.014
3/14/2001	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005				<0.005	<0.005	0.014	<0.005
11/1/2001	<0.005	<0.005				<0.005	<0.005	0.023	<0.005
4/25/2002	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
11/20/2002	<0.005	<0.005				<0.005	0.0096 (o)	0.022	0.014
6/6/2003	<0.005	<0.005				<0.005	0.0076	0.07 (o)	0.014
12/12/2003	<0.005	<0.005				<0.005	0.0058	<0.005	<0.005
5/26/2004	<0.005	<0.005				<0.005	0.0068	0.0074	0.0082
12/7/2004	<0.005	<0.005				<0.005	0.0066	0.017	0.0062
6/21/2005	<0.005	<0.005				<0.005	<0.005	0.013	<0.005
12/12/2005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
6/27/2006	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
12/4/2006	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
6/23/2007	<0.005	<0.005				<0.005	<0.005	<0.005	0.0053
12/11/2007	<0.005	<0.005				<0.005	<0.005	<0.005	0.0057
6/23/2008						<0.005			
6/24/2008	<0.005	<0.005					0.005	<0.005	0.012
12/4/2008		<0.005				<0.005			
12/5/2008	<0.005						<0.005	<0.005	0.0064
7/7/2009							<0.005	<0.005	<0.005
7/8/2009	<0.005	<0.005				<0.005			
12/20/2009		<0.005							
12/21/2009	<0.005					<0.005	<0.005	<0.005	<0.005
6/20/2010		<0.005				<0.005		<0.005	0.017
6/21/2010	<0.005		0.29	0.013 (o)	<0.005		0.018 (o)		
1/6/2011		<0.005						<0.005	
1/7/2011	<0.005		0.2	<0.005	<0.005	<0.005	<0.005		<0.005
7/7/2011			<0.005					<0.005	<0.005
7/8/2011	<0.005		0.19	<0.005	<0.005	<0.005	<0.005		
1/17/2012		<0.005						<0.005	
1/18/2012	<0.005		0.058	<0.005	<0.005	<0.005	<0.005		<0.005
7/9/2012		<0.005						<0.005	
7/10/2012	<0.005		0.18	<0.005	<0.005	<0.005	0.0052		<0.005
1/17/2013		<0.005						<0.005	
1/18/2013	<0.005		0.22	0.0061	<0.005	<0.005	<0.005		<0.005
7/16/2013								<0.005	
7/17/2013	<0.005	<0.005	0.45	<0.005	<0.005	<0.005	<0.005		<0.005
1/13/2014		<0.005						<0.005	
1/14/2014	<0.005		0.52	0.006	<0.005	<0.005	<0.005		<0.005
7/9/2014	<0.005	<0.005		<0.005		<0.005	0.0023 (J)	<0.005	<0.005
7/10/2014			0.4		0.0027 (J)				
1/12/2015			0.43				0.0028 (J)		
1/13/2015		<0.005						<0.005	
1/14/2015	<0.005			<0.005	<0.005	<0.005			<0.005
7/16/2015		<0.005					<0.005	<0.005	
7/17/2015				<0.005		<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	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/27/2016		<0.005						0.0008 (J)	
7/28/2016			0.209	<0.005		<0.005			0.0009 (J)
7/29/2016	0.0009 (J)				0.002 (J)		0.0014 (J)		
8/30/2016								<0.005	<0.005
8/31/2016		<0.005			0.0017 (J)	<0.005			
9/1/2016	<0.005		0.215	0.0039 (J)			0.0033 (J)		
10/25/2016			0.307	<0.005					
10/26/2016	<0.005	<0.005			<0.005		0.0016 (J)	<0.005	<0.005
10/27/2016						<0.005			
1/3/2017								<0.005	
1/4/2017			0.311	<0.005	<0.005				
1/5/2017	<0.005	<0.005							0.0021 (J)
1/6/2017						<0.005	<0.005		
4/4/2017		<0.005	0.317	0.0031 (J)			0.0021 (J)		
4/5/2017	0.0011 (J)								
4/6/2017					0.0006 (J)	<0.005		0.0006 (J)	0.0011 (J)
7/11/2017			0.299		0.0012 (J)				
7/12/2017						<0.005	0.0015 (J)	0.0009 (J)	0.0014 (J)
7/13/2017	0.0016 (J)	<0.005		<0.005					
10/2/2017			0.216						
10/3/2017		<0.005		<0.005				0.001 (J)	0.0014 (J)
10/4/2017	0.0019 (J)				0.0025 (J)	<0.005	0.0018 (J)		
1/9/2018				0.0033 (J)					0.0017 (J)
1/10/2018		0.0006 (J)	0.347					0.0012 (J)	
1/11/2018	0.0015 (J)				0.0006 (J)	<0.005	0.0015 (J)		
7/9/2018			0.37						
7/10/2018		<0.005		0.0027 (J)				0.0016 (J)	0.00063 (J)
7/11/2018	0.00082 (J)				0.0011 (J)	<0.005	0.00095 (J)		
1/16/2019	<0.005						0.0024 (J)	0.0011 (J)	<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				0.0029 (J)		
3/26/2019	0.0015 (J)			0.0045 (J)				0.0014 (J)	0.0029 (J)
3/27/2019					<0.005	<0.005			
7/30/2019		0.00039 (J)							
8/27/2019		<0.005			0.00044 (J)		0.0023 (J)		0.0035 (J)
8/28/2019	0.0011 (J)		0.43	0.002 (J)		<0.005		0.0023 (J)	
10/8/2019				0.0028 (J)					
10/9/2019	0.0011 (J)	<0.005	0.35		<0.005	<0.005	0.0024 (J)	0.0053 (J)	0.0018 (J)
4/7/2020				<0.005	0.00043 (J)		0.0027 (J)	0.0011 (J)	<0.005
4/8/2020	0.0013 (J)	0.00094 (J)	0.33			0.00084 (J)			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	0.11	0.16 (o)	0.044	0.1	0.075	<0.005	0.11	0.028	0.076
11/21/2000	0.12		0.047	0.082	0.072	0.01	0.15	0.035	0.075
1/20/2001	0.11	0.18 (o)	0.051	0.083	0.086	<0.005	0.1	0.032	0.053
3/14/2001	0.11	0.14	0.048	0.075	0.088	0.01	0.095	0.036	0.055
7/16/2001	0.11	0.14	0.054	0.091	0.084	<0.005	0.28 (o)	0.036	0.041
11/1/2001	0.11	0.14	0.063	0.068	0.13	<0.005	0.16	0.036	0.045
4/25/2002	0.058	0.088	0.032	0.066	0.24 (o)	<0.005	0.054	0.045	0.055
6/6/2003	0.19	0.14	0.046	0.085	0.28 (o)	0.028	0.063	0.083 (o)	0.48 (o)
12/12/2003	0.1	0.13	0.034	0.072	0.27 (o)	0.019	0.041	0.094 (o)	0.13 (o)
5/26/2004	0.084	0.09	0.035	0.055	0.31 (o)	<0.005	0.059	0.034	0.055
12/7/2004	0.094	0.11	0.024	0.066	0.46 (o)	0.009	0.076	0.042	0.072
6/21/2005	0.089	0.084	0.039	0.033	0.053	0.0089	0.042	0.039	0.061
12/12/2005	0.089	0.1	0.042	0.034	0.1	0.026	0.048	0.043	0.047
4/4/2006		0.089					0.05		0.042
6/27/2006	0.096	0.1	0.033	0.029	0.098	0.029	0.036	0.031	0.042
8/30/2006		0.12					0.059		0.05
12/4/2006	0.092	0.086	0.04	0.02	0.068	0.017	0.062	0.043	0.044
2/15/2007		0.088					0.079		0.041
6/23/2007	0.08	0.089	0.044	0.017	0.042	0.014	0.03	0.031	0.044
9/11/2007		0.092					0.053		0.04
12/11/2007	0.067	0.077	0.049	0.013	0.04	0.011	0.075	0.044	0.0035
3/11/2008		0.082					0.052		0.034
6/23/2008	0.056	0.086		0.012	0.041	0.018			
6/24/2008			0.038				0.039	0.057	0.042
11/3/2008		0.088					0.082		0.049
12/4/2008	0.054	0.081		0.011	0.035	0.019	0.079		
12/5/2008			0.06					0.041	0.05
3/25/2009		0.069					0.093		0.052
7/7/2009	0.034	0.078	0.043						
7/8/2009				0.012	0.036	0.011	0.039	0.058	0.046
9/14/2009		0.079					0.061		0.048
12/20/2009	0.034	0.081	0.065				0.088	0.062	0.062
12/21/2009				0.011	0.028	0.01			
3/4/2010		0.065					0.077		0.058
6/20/2010	0.062	0.078	0.095	0.0089	0.025	0.0081	0.075	0.03	
6/21/2010									0.041
9/14/2010		0.076					0.093		0.036
1/6/2011			0.093	0.014		0.012			
1/7/2011	0.039	0.074			0.037		0.13	0.049	0.054
4/15/2011		0.065					0.086		0.049
7/7/2011	0.036	0.081	0.095	0.018	0.039	0.015	0.051	0.05	0.063
9/25/2011		0.078					0.056		0.037
1/17/2012	0.041	0.082	0.1	0.23	0.045	0.0086	0.052	0.044	
1/18/2012									0.034
4/4/2012		0.0861					0.0519		0.0446
7/9/2012	0.15		0.11	0.17	0.032	0.01	0.048	0.045	
7/10/2012		0.082							0.033
10/9/2012		0.09					0.065		0.041
1/17/2013			0.12	0.2	0.033	0.014			
1/18/2013	0.15	0.083					0.045	0.049	0.036
4/5/2013		0.078					0.047		0.036
7/16/2013			0.081	0.11	0.027	0.012			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013	0.13	0.083					0.032	0.039	0.054
10/11/2013		0.078					0.028		0.052
1/13/2014	0.16		0.096	0.083	0.027	0.015		0.038	
1/14/2014		0.081					0.036		0.051
4/3/2014		0.077					0.038		0.047
7/8/2014				0.066	0.037	0.017			
7/9/2014	0.11	0.073	0.066				0.03	0.031	0.08
10/24/2014		0.087					0.025		0.072
1/13/2015	0.083		0.068	0.053	0.023	0.019		0.041	
1/14/2015		0.079					0.04		0.047
5/10/2015		0.076					0.026		
5/11/2015									0.053
7/16/2015	0.094		0.07	0.052	0.03	0.022		0.041	0.059
7/17/2015		0.061					0.029		
10/6/2015		0.067					0.03		0.053
1/17/2016			0.062				0.038	0.048	0.056
1/18/2016	0.22	0.068			0.032	0.026			
1/19/2016				0.048					
4/26/2016		0.0596					0.025		0.0721
7/26/2016				0.051		0.0236			
7/27/2016	0.192		0.0417		0.0191		0.0248	0.0487	
7/28/2016		0.0701							0.0534
8/30/2016		0.0687	0.0545						
8/31/2016				0.0565	0.019	0.0273			
9/1/2016	0.415 (o)						0.0346	0.0403	0.0445
10/24/2016		0.07							
10/25/2016	0.173		0.0504				0.0248	0.0329	0.0464
10/26/2016				0.0591	0.0197	0.0238			
1/3/2017		0.061							
1/4/2017			0.0534	0.0598	0.0174				0.0379
1/5/2017						0.0218	0.0245	0.0392	
1/6/2017	0.167								
4/3/2017		0.0612						0.0439	
4/4/2017			0.0549				0.0342		
4/5/2017					0.0174				0.0534
4/6/2017	0.136			0.0813		0.0204			
7/10/2017					0.0172				
7/11/2017		0.0624		0.0302			0.0276	0.051	
7/12/2017			0.0614			0.0161			0.0944
7/13/2017	0.0891								
10/2/2017		0.0618					0.0274	0.047	
10/3/2017			0.0436	0.103					0.135 (o)
10/4/2017	0.113				0.0162	0.0185			
1/9/2018	0.0901	0.0574					0.0222	0.0431	
1/10/2018			0.053			0.0166			0.0603
1/11/2018				0.166	0.018				
7/9/2018		0.056					0.026		
7/10/2018			0.059					0.047	0.16 (o)
7/11/2018	0.065			0.12	0.014	0.019			
1/16/2019	0.062	0.062	0.054			0.019	0.028		
1/17/2019				0.039	0.017			0.042	0.13
3/25/2019	0.054	0.064							

Time Series

Constituent: Barium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/26/2019			0.055			0.026	0.034	0.047	0.14
3/27/2019				0.053	0.017				
8/26/2019	0.11	0.065							
8/27/2019			0.054	0.12	0.017	0.024	0.067	0.049	
8/28/2019									0.09
10/7/2019		0.069							
10/8/2019	0.1			0.13		0.024	0.085	0.057	0.13
10/9/2019			0.058		0.019				
4/6/2020	0.072	0.057							
4/7/2020			0.05	0.14	0.017		0.073	0.033	0.13
4/8/2020						0.027			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	0.16					0.093	0.16	0.22	0.16
11/21/2000	0.17	0.046				0.095	0.16	0.13	0.21
1/20/2001	0.16	0.036				0.089	0.21	0.19	0.23
3/14/2001	0.17	0.03				0.088	0.18	0.27	0.22
7/16/2001	0.19	0.032				0.096	0.18	0.37	0.22
11/1/2001	0.18	0.029				0.094	0.15	0.61 (o)	0.23
4/25/2002	0.15	0.021				0.085	0.16	0.19	0.15
6/6/2003	0.13	0.032				0.09	0.29	0.72 (o)	0.13
12/12/2003	0.18	0.021				0.084	0.18	0.054	0.034
5/26/2004	0.17	0.035				0.08	0.16	0.18	0.13
12/7/2004	0.19	0.031				0.098	0.16	0.24	0.13
6/21/2005	0.18	0.028				0.084	0.15	0.2	0.07
12/12/2005	0.17	0.024				0.07	0.15	0.074	0.04
6/27/2006	0.17	0.03				0.083	0.19	0.075	0.041
12/4/2006	0.21	0.031				0.072	0.26	0.092	0.048
6/23/2007	0.17	0.037				0.087	0.24	0.089	0.12
12/11/2007	0.18	0.034				0.082	0.21	0.072	0.12
6/23/2008						0.1			
6/24/2008	0.14	0.038					0.13	0.049	0.17
12/4/2008		0.038				0.12			
12/5/2008	0.19						0.12	0.067	0.093
7/7/2009							0.17	0.04	0.06
7/8/2009	0.2	0.053				0.14			
12/20/2009		0.047							
12/21/2009	0.23					0.15	0.2	0.044	0.11
6/20/2010		0.046				0.21		0.036	0.11
6/21/2010	0.25		0.062	0.16	0.11		0.22		
1/6/2011		0.063						0.075	
1/7/2011	0.21		0.039	0.095	0.12	0.2	0.12		0.025
7/7/2011			0.06					0.13	0.025
7/8/2011	0.13		0.043	0.1	0.094	0.18	0.15		
1/17/2012		0.06						0.21	
1/18/2012	0.26		0.042	0.12	0.087	0.18	0.15		0.03
7/9/2012		0.05						0.2	
7/10/2012	0.19		0.039	0.097	0.1	0.16	0.14		0.028
1/17/2013		0.058						0.19	
1/18/2013	0.17		0.04	0.1	0.078	0.19	0.15		0.058
7/16/2013								0.076	
7/17/2013	0.18	0.041	0.055	0.069	0.062	0.17	0.14		0.086
1/13/2014		0.058						0.14	
1/14/2014	0.18		0.059	0.086	0.073	0.2	0.16		0.1
7/9/2014	0.16	0.048		0.065		0.16	0.12	0.12	0.082
7/10/2014			0.067		0.13				
1/12/2015			0.061				0.13		
1/13/2015		0.048						0.13	
1/14/2015	0.16			0.084	0.065	0.17			0.094
7/16/2015		0.048					0.11	0.12	
7/17/2015				0.071		0.18			0.11
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	0.095	0.12	0.11
7/27/2016		0.0796						0.112	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/28/2016			0.164	0.0626		0.234			0.105
7/29/2016	0.181				0.0575		0.0883		
8/30/2016								0.135	0.106
8/31/2016		0.0429			0.0693	0.284			
9/1/2016	0.203		0.0976	0.077			0.123		
10/25/2016			0.0702	0.0217					
10/26/2016	0.177	0.113 (o)			0.0966		0.0863	0.103	0.107
10/27/2016						0.244			
1/3/2017								0.118	
1/4/2017			0.0999	0.0617	0.0975				
1/5/2017	0.142	0.0526							0.107
1/6/2017						0.305	0.0758		
4/4/2017		0.0503	0.136	0.0761			0.091		
4/5/2017	0.106								
4/6/2017					0.064	0.249		0.162	0.111
7/11/2017			0.145		0.0778				
7/12/2017						0.256	0.0941	0.157	0.106
7/13/2017	0.0686	0.0529		0.0428					
10/2/2017			0.148						
10/3/2017		0.057		0.0376				0.127	0.105
10/4/2017	0.0589				0.156	0.356	0.0994		
1/9/2018				0.0704					0.0969
1/10/2018		0.0527	0.0788					0.158	
1/11/2018	0.0412				0.0702	0.226	0.088		
7/9/2018			0.087						
7/10/2018		0.054		0.061				0.31	0.087
7/11/2018	0.049				0.12	0.29	0.071		
1/16/2019	0.063						0.083	0.054	0.013 (J)
1/17/2019				0.061					
1/18/2019					0.052	0.21			
1/21/2019		0.05	0.069						
3/25/2019			0.085				0.077		
3/26/2019	0.025			0.084				0.057	0.012 (J)
3/27/2019					0.057	0.19			
7/30/2019		0.052							
8/27/2019		0.053			0.097		0.076		0.013
8/28/2019	0.026		0.078	0.063		0.17		0.1	
10/8/2019				0.079					
10/9/2019	0.032	0.05	0.078		0.065	0.18	0.076	0.13	0.014 (J)
4/7/2020				0.054	0.1		0.09	0.098	0.01 (J)
4/8/2020	0.055	0.061	0.19			0.15			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	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	<0.003	<0.003	<0.003
11/21/2000	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2016		0.0002 (J)	<0.003						
8/31/2016				<0.003	0.0011 (J)	<0.003			
9/1/2016	0.0017 (J)						0.0001 (J)	<0.003	0.0001 (J)
10/24/2016		<0.003							
10/25/2016	0.0002 (J)		<0.003				<0.003	<0.003	<0.003
10/26/2016				<0.003	0.0011 (J)	<0.003			
1/3/2017		0.0002 (J)							
1/4/2017			<0.003	<0.003	0.0009 (J)				9E-05 (J)
1/5/2017						<0.003	<0.003	<0.003	
1/6/2017	0.0003 (J)								
4/3/2017		0.0002 (J)						<0.003	
4/4/2017			<0.003				9E-05 (J)		
4/5/2017					0.0008 (J)				9E-05 (J)
4/6/2017	0.0004 (J)			<0.003		<0.003			
7/10/2017					0.0008 (J)				
7/11/2017		0.0002 (J)		<0.003			<0.003	<0.003	
7/12/2017			<0.003			<0.003			<0.003
7/13/2017	0.001 (J)								
10/2/2017		0.0002 (J)					<0.003	<0.003	
10/3/2017			<0.003	<0.003					<0.003
10/4/2017	0.0002 (J)				0.0006 (J)	<0.003			
1/9/2018	<0.003	0.0002 (J)					<0.003	<0.003	
1/10/2018			<0.003			<0.003			0.0001 (J)
1/11/2018				<0.003	0.0006 (J)				
7/9/2018		0.0002 (J)					6.2E-05 (J)		
7/10/2018			<0.003					<0.003	6E-05 (J)
7/11/2018	<0.015 (o)			<0.003	0.00061 (J)	5.8E-05 (J)			
8/26/2019	<0.015 (o)	0.00021 (J)							
8/27/2019			<0.003	<0.003	0.00047 (J)	<0.003	<0.003	<0.003	
8/28/2019									8E-05 (J)
10/7/2019		0.00024 (J)							
10/8/2019	<0.015 (o)			<0.003		<0.003	<0.003	<0.003	9.8E-05 (J)
10/9/2019			<0.003		0.00046 (J)				
4/6/2020	<0.003	0.00017 (J)							
4/7/2020			<0.003	<0.003	0.00051 (J)		<0.003	<0.003	<0.003
4/8/2020						<0.003			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.003					<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/30/2016								0.0002 (J)	<0.003
8/31/2016		<0.003			0.0002 (J)	0.0003 (J)			
9/1/2016	0.0014 (J)		<0.003	<0.003			0.0004 (J)		
10/25/2016			<0.003	<0.003					
10/26/2016	0.0016 (J)	0.0003 (J)			0.0002 (J)		0.0001 (J)	0.0001 (J)	<0.003
10/27/2016						0.0003 (J)			
1/3/2017								0.0001 (J)	
1/4/2017			<0.003	<0.003	0.0001 (J)				
1/5/2017	0.0019 (J)	<0.003							<0.003
1/6/2017						0.0002 (J)	0.0001 (J)		
4/4/2017		9E-05 (J)	<0.003	<0.003			0.0001 (J)		
4/5/2017	0.0024 (J)								
4/6/2017					<0.003	0.0003 (J)		0.0003 (J)	<0.003
7/11/2017			<0.003		<0.003				
7/12/2017						0.0003 (J)	<0.003	0.0002 (J)	<0.003
7/13/2017	0.0034	<0.003		<0.003					
10/2/2017			<0.003						
10/3/2017		<0.003		<0.003				0.0002 (J)	<0.003
10/4/2017	0.0037				0.0001 (J)	0.0002 (J)	0.0001 (J)		
1/9/2018				<0.003					<0.003
1/10/2018		<0.003	<0.003					0.0003 (J)	
1/11/2018	0.0033				<0.003	0.0003 (J)	0.0001 (J)		
7/9/2018			<0.003						
7/10/2018		<0.003		<0.003				0.00028 (J)	<0.003
7/11/2018	0.0038				7E-05 (J)	0.0003 (J)	<0.003		
7/30/2019		<0.003							
8/27/2019		<0.003			9E-05 (J)		<0.003		<0.003
8/28/2019	0.0017 (J)		<0.003	<0.003		0.00022 (J)		7.6E-05 (J)	
10/8/2019				<0.003					
10/9/2019	0.0018 (J)	<0.003	<0.003		<0.003	0.00023 (J)	<0.003	<0.003	<0.003
4/7/2020				<0.003	<0.003		<0.003	<0.003	<0.003
4/8/2020	0.0017 (J)	8.8E-05 (J)	<0.003			0.00019 (J)			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		0.117	0.875						
8/31/2016				0.0688 (J)	5.1	0.261			
9/1/2016	11.6						0.071 (J)	9.01 (o)	1.82
10/24/2016		0.126							
10/25/2016	21.4		1.22				0.0819 (J)	1.66	1.26
10/26/2016				0.083 (J)	5.74	0.211			
1/3/2017		0.124							
1/4/2017			1.3	0.0738	6.56				1.46
1/5/2017						0.179	0.0813	1.1	
1/6/2017	20.1								
4/3/2017		0.105						1.21	
4/4/2017			1.19				0.0723		
4/5/2017					6.49				2
4/6/2017	21.8			0.0754		0.112			
7/10/2017					8.13				
7/11/2017		0.136		0.0614			0.0734	1.44	
7/12/2017			1.37			0.0882			2.95
7/13/2017	16.3								
10/2/2017		0.107					0.0748	1.59	
10/3/2017			0.765	0.0838					4.15
10/4/2017	21.5				5.18	0.116			
1/9/2018	13.9	0.123					0.0679	1.35	
1/10/2018			0.876			0.101			3.68
1/11/2018				0.169	5.16				
7/9/2018		0.11					0.061		
7/10/2018			0.94					1.2	5.2
7/11/2018	11.7			0.3	8.5	0.098			
1/16/2019	9.3	0.13	0.91			0.11	0.046		
1/17/2019				0.065	7			1.1	8.6
3/25/2019	8.5	0.098							
3/26/2019			0.77			0.35	0.037 (J)	0.95	7.4
3/27/2019				0.089	6.1				
10/7/2019		0.12							
10/8/2019	6.4			0.22		0.18	0.048	1.1	8.4
10/9/2019			0.93		8.2				
4/6/2020	6.1	0.14							
4/7/2020			1	0.67	5.3		0.061 (J)	0.96	10.5
4/8/2020						0.28			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								1.09	1.41
8/31/2016		0.0196 (J)			12.8	0.096 (J,o)			
9/1/2016	0.408		3.34	0.62			6.48		
10/25/2016			2.54	0.0658 (J)					
10/26/2016	0.5	0.05 (J)			9.81		7.57	2.5	1.83
10/27/2016						0.0281 (J)			
1/3/2017								3.39	
1/4/2017			1.91	0.36	8.94				
1/5/2017	0.676	0.0162 (J)							3.07
1/6/2017						0.0189 (J)	8.34		
4/4/2017		0.019 (J)	2.77	0.509			8.18		
4/5/2017	0.69								
4/6/2017					0.733	0.0181 (J)		2.76	3.19
7/11/2017			4.14		0.852				
7/12/2017						0.0211 (J)	7.51	3.55	3.06
7/13/2017	0.888	0.023 (J)		0.126					
10/2/2017			4.65						
10/3/2017		0.0266 (J)		0.1				2.72	2.69
10/4/2017	1.02				6.05	0.0254 (J)	8.88		
1/9/2018				0.783					2.81
1/10/2018		0.0203 (J)	1.79					3.21	
1/11/2018	1.28				0.838	0.018 (J)	6.95		
7/9/2018			1.7						
7/10/2018		0.026 (J)		0.5				7	2.9
7/11/2018	1.6				3.2	0.02 (J)	6.4		
1/16/2019	1.5						5.3	5	7.7
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				4.4		
3/26/2019	1.2			0.61				4	7.4
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)	5.7	6.8	6.3
4/7/2020				0.24	3.1		5.5	4.6	5.6
4/8/2020	0.99	0.031 (J)	2.5			0.023 (J)			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
11/21/2000	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/20/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/14/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/16/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/1/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/25/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/30/2016		<0.0025	<0.0025						
8/31/2016				0.0002 (J)	<0.0025	<0.0025			
9/1/2016	0.0007 (J)						0.0001 (J)	<0.0025	<0.0025
10/24/2016		<0.0025							
10/25/2016	<0.0025		<0.0025				0.0002 (J)	<0.0025	<0.0025
10/26/2016				0.0001 (J)	<0.0025	<0.0025			
1/3/2017		<0.0025							
1/4/2017			0.0001 (J)	0.0001 (J)	<0.0025				<0.0025
1/5/2017						<0.0025	0.0002 (J)	<0.0025	
1/6/2017	0.0001 (J)								
4/3/2017		<0.0025						<0.0025	
4/4/2017			7E-05 (J)				0.0002 (J)		
4/5/2017					<0.0025				<0.0025
4/6/2017	<0.0025			0.0002 (J)		<0.0025			
7/10/2017					<0.0025				
7/11/2017		<0.0025		<0.0025			0.0002 (J)	<0.0025	
7/12/2017			<0.0025			<0.0025			<0.0025
7/13/2017	<0.0025								
10/2/2017		<0.0025					<0.0025	<0.0025	
10/3/2017			<0.0025	0.0003 (J)					<0.0025
10/4/2017	<0.0025				<0.0025	<0.0025			
1/9/2018	<0.0025	<0.0025					<0.0025	<0.0025	
1/10/2018			<0.0025			<0.0025			<0.0025
1/11/2018				0.0006 (J)	<0.0025				
7/9/2018		<0.0025					0.00017 (J)		
7/10/2018			<0.0025					<0.0025	<0.0025
7/11/2018	<0.0025			0.0004 (J)	<0.0025	<0.0025			
8/26/2019	<0.012 (o)	<0.0025							
8/27/2019			<0.0025	0.00044 (J)	<0.0025	<0.0025	<0.0025	<0.0025	
8/28/2019									<0.0025
10/7/2019		<0.0025							
10/8/2019	<0.012 (o)			0.00043 (J)		<0.0025	<0.0025	<0.0025	<0.0025
10/9/2019			<0.0025		<0.0025				
4/6/2020	<0.0025	<0.0025							
4/7/2020			<0.0025	0.00051 (J)	<0.0025		<0.0025	<0.0025	<0.0025
4/8/2020						<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
11/21/2000	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
1/20/2001	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
3/14/2001	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
7/16/2001	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
11/1/2001	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
4/25/2002	<0.0025	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
8/30/2016								<0.0025	<0.0025
8/31/2016		<0.0025			8E-05 (J)	<0.0025			
9/1/2016	<0.0025		<0.0025	<0.0025			0.0002 (J)		
10/25/2016			<0.0025	<0.0025					
10/26/2016	<0.0025	<0.0025			<0.0025		<0.0025	<0.0025	<0.0025
10/27/2016						<0.0025			
1/3/2017								<0.0025	
1/4/2017			<0.0025	<0.0025	0.0001 (J)				
1/5/2017	<0.0025	<0.0025							<0.0025
1/6/2017						<0.0025	9E-05 (J)		
4/4/2017		<0.0025	<0.0025	<0.0025			9E-05 (J)		
4/5/2017	<0.0025								
4/6/2017					0.0001 (J)	<0.0025		<0.0025	<0.0025
7/11/2017			<0.0025		<0.0025				
7/12/2017						<0.0025	<0.0025	<0.0025	<0.0025
7/13/2017	<0.0025	<0.0025		<0.0025					
10/2/2017			<0.0025						
10/3/2017		<0.0025		<0.0025				<0.0025	<0.0025
10/4/2017	<0.0025				0.0002 (J)	<0.0025	<0.0025		
1/9/2018				<0.0025					<0.0025
1/10/2018		<0.0025	<0.0025					<0.0025	
1/11/2018	<0.0025				0.0002 (J)	<0.0025	0.0002 (J)		
7/9/2018			<0.0025						
7/10/2018		<0.0025		<0.0025				<0.0025	<0.0025
7/11/2018	<0.0025				0.00023 (J)	<0.0025	<0.0025		
7/30/2019		<0.0025							
8/27/2019		<0.0025			<0.0025		<0.0025		<0.0025
8/28/2019	<0.0025		<0.0025	<0.0025		<0.0025		<0.0025	
10/8/2019				<0.0025					
10/9/2019	<0.0025	<0.0025	<0.0025		0.00012 (J)	<0.0025	<0.0025	<0.0025	<0.0025
4/7/2020				<0.0025	0.00054 (J)		<0.0025	<0.0025	<0.0025
4/8/2020	<0.0025	<0.0025	<0.0025			<0.0025			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		23.8	29.4						
8/31/2016				18.8	105	2.77 (o)			
9/1/2016	5.59						194	119	93.8
10/24/2016		22.5							
10/25/2016	6.43		28.3				100	106	94.1
10/26/2016				16.6	101	2.25			
1/3/2017		22.1							
1/4/2017			33.4	17.6	94.9				88.2
1/5/2017						2.27	107	115	
1/6/2017	8.13								
4/3/2017		24.6 (J)						131	
4/4/2017			34.6				153		
4/5/2017					92.5				106
4/6/2017	7.72			30.9		2.04			
7/10/2017					90.3				
7/11/2017		23.5		17.7			125	155	
7/12/2017			38			2.25			149
7/13/2017	4.57								
10/2/2017		22.7					126	137	
10/3/2017			25.5	39.8					217
10/4/2017	6.41				74.6	2.19			
1/9/2018	4.68	23.2					119	135	
1/10/2018			36.5			2.28			161
1/11/2018				65.6	78.1				
7/9/2018		24.6 (J)					123		
7/10/2018			45.5					129	205
7/11/2018	3.9			53	72.2	2.3			
1/16/2019	4.3	27.7	46.5			2.3	120		
1/17/2019				19.8 (J)	64.7			137	187
3/25/2019	3.9	31.7							
3/26/2019			46.3			2.4	84.2	124	204
3/27/2019				25.1	63.1				
10/7/2019		31.6							
10/8/2019	3.5			69.2		2.3	146	129	205
10/9/2019			51.2		54.2				
4/6/2020	3.1	35.8							
4/7/2020			31.1	84.7	52.1		135	129	225
4/8/2020						2.5			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								14.3	4.68
8/31/2016		0.371 (J)			127	6.9			
9/1/2016	71.9		67.2	40.5			9.91		
10/25/2016			50.1	3.91					
10/26/2016	80.3	5.84			127		8.56	18.6	5.45
10/27/2016						8.2			
1/3/2017								18.1	
1/4/2017			80.4	15.2	113				
1/5/2017	94.4	0.379 (J)							5.35
1/6/2017						7.97	8.18		
4/4/2017		0.993	108	32.3			8.12		
4/5/2017	104								
4/6/2017					42.7	7.95		16.2	5.41
7/11/2017			136		46				
7/12/2017						8.37	8	18.1	4.81
7/13/2017	124	0.388 (J)		8.92					
10/2/2017			105						
10/3/2017		0.251 (J)		7.88				15.2	5.17
10/4/2017	136				115	8.57	12.5		
1/9/2018				40.5					4.73
1/10/2018		0.177 (J)	60.1					15.5	
1/11/2018	139				47.6	9.78	12.9		
7/9/2018			75.9						
7/10/2018		0.17 (J)		29.8				30.6	4.5
7/11/2018	122				73.7	9.2	8.6		
1/16/2019	80.5						68.8	33.3	10.1
1/17/2019				27.6					
1/18/2019					30.6	8.1			
1/21/2019		0.19 (J)	60						
3/25/2019			74.8				55.6		
3/26/2019	68.8			60.1				36.1	9
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	46.7	17.7	10.1
4/7/2020				12.5	65.7		62.1	34.1	7.8
4/8/2020	53.1	0.24 (J)	175			5.3			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		15	5.5						
8/31/2016				3.5	210	4.3			
9/1/2016	190						60	10	43
10/24/2016		13							
10/25/2016	175 (D)		5.1				36	6.5	34
10/26/2016				2.5	200	4.9			
1/3/2017		13							
1/4/2017			6.9	3.8	160				29
1/5/2017						4.1	37	10	
1/6/2017	180								
4/3/2017		14						7.3	
4/4/2017			6.5				47		
4/5/2017					140				36
4/6/2017	200			7.1		3.7			
7/10/2017					88				
7/11/2017		13		3.1			34	5.7	
7/12/2017			6.5			2.6			44
7/13/2017	200								
10/2/2017		15					34	4.4	
10/3/2017			4.5	46					58
10/4/2017	260				100	3			
1/9/2018	210	13					24	5.7	
1/10/2018			6.9			3.4			36
1/11/2018				100	78				
7/9/2018		15.4					25.9		
7/10/2018			6.2					3.1	57
7/11/2018	177			53.7	66.9	3.2			
1/16/2019	165	16	6.6			3.8	29.2		
1/17/2019				6.6	52			3.2	48.9
3/25/2019	147	17.7							
3/26/2019			7			3.2	21.1	3	5.1
3/27/2019				11.9	45.6				
10/7/2019		18							
10/8/2019	125			89		4	40.2	2.9	46.4
10/9/2019			7.2		44.1				
4/6/2020	30.2	13.5							
4/7/2020			7.7	103	32.5		41.6	3.4	49.3
4/8/2020						4.5			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								31	60
8/31/2016		7.8			320	17			
9/1/2016	610		16	5.9			160		
10/25/2016			8.1	4.4					
10/26/2016	570	12			450		110	24	67
10/27/2016						17			
1/3/2017								29	
1/4/2017			13	7.7	330				
1/5/2017	710	7.4							70
1/6/2017						16	67		
4/4/2017		8.7	23	8			80		
4/5/2017	860								
4/6/2017					50	17		27	76
7/11/2017			31		70				
7/12/2017						18	120	31	64
7/13/2017	860	8.3		5.4					
10/2/2017			30						
10/3/2017		9		4.4				27	73
10/4/2017	1000				360	18	130		
1/9/2018				4.4					61
1/10/2018		8.2	9.7					59	
1/11/2018	940				74	16	60		
7/9/2018			10.8						
7/10/2018		7.3		6.3				172	60.2
7/11/2018	864				164	16.2	75.9		
1/16/2019	469						20.2	49.7	54.1
1/17/2019				5.4					
1/18/2019					11	17.5			
1/21/2019		6.9	5.1						
3/25/2019			9.4				19.7		
3/26/2019	439			11.9				47.9	51.8
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	32.1	239	49.7
4/7/2020				4.7	146		14.5	44.3	56.4
4/8/2020	277	5.2	20.2			16.9			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	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	<0.01	<0.01	<0.01
11/21/2000	<0.01		<0.01	<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	<0.01	<0.01	<0.01
3/14/2001	<0.01	<0.01	<0.01	<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	<0.01	<0.01	<0.01
11/1/2001	<0.01	<0.01	<0.01	<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	<0.01	<0.01	<0.01
11/20/2002		0.0051 (o)	<0.01	0.006	0.002	<0.01	0.014	0.0058	0.0041
6/6/2003	0.037	0.014	0.005 (o)	0.0082	<0.01	0.003	<0.01	0.0068	0.063 (o)
12/12/2003	0.0044	0.011	<0.01	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	<0.01	<0.01	<0.01
12/7/2004	<0.01	<0.01	<0.01	<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	<0.01	<0.01	<0.01
12/12/2005	<0.01	<0.01	0.002 (o)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/4/2006		<0.01					<0.01		<0.01
6/27/2006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0013	<0.01
8/30/2006		<0.01					<0.01		<0.01
12/4/2006	0.0015	<0.01	<0.01	0.0021	0.0032	0.0017	0.0042 (o)	<0.01	0.0036 (o)
2/15/2007		<0.01					<0.01		<0.01
6/23/2007	<0.01	<0.01	<0.01	0.0017	<0.01	<0.01	<0.01	<0.01	0.0016
9/11/2007		<0.01					<0.01		<0.01
12/11/2007	0.0016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2008		<0.01					<0.01		<0.01
6/23/2008	0.0019	<0.01		<0.01	0.0016	<0.01			
6/24/2008			<0.01				<0.01	0.0014	<0.01
11/3/2008		<0.01					<0.01		0.0025
12/4/2008	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01		
12/5/2008			<0.01					<0.01	<0.01
3/25/2009		<0.01					<0.01		<0.01
7/7/2009	0.0037	<0.01	0.0013						
7/8/2009				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/14/2009		<0.01					<0.01		<0.01
12/20/2009	0.0016	<0.01	<0.01				<0.01	<0.01	<0.01
12/21/2009				<0.01	<0.01	<0.01			
3/4/2010		<0.01					<0.01		<0.01
6/20/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
6/21/2010									<0.01
9/14/2010		<0.01					<0.01		<0.01
1/6/2011			<0.01	<0.01		<0.01			
1/7/2011	0.0033	<0.01			<0.01		0.0016	<0.01	0.0018
4/15/2011		<0.01					0.0034 (o)		<0.01
7/7/2011	0.0044	<0.01	<0.01	0.0023	<0.01	0.0019	<0.01	<0.01	<0.01
9/25/2011		0.0021 (o)					0.0013		<0.01
1/17/2012	0.0038	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1/18/2012									<0.01
4/4/2012		<0.01					<0.01		<0.01
7/9/2012	0.022		<0.01	0.0017	<0.01	<0.01	<0.01	<0.01	
7/10/2012		<0.01							<0.01
10/9/2012		<0.01					0.0019		0.0018
1/17/2013			<0.01	<0.01	<0.01	<0.01			
1/18/2013	0.034	<0.01					0.0017	<0.01	<0.01
4/5/2013		<0.01					0.0019		<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
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		<0.01					0.0013		<0.01
1/13/2014	0.04		<0.01	<0.01	<0.01	<0.01		<0.01	
1/14/2014		<0.01					0.001		<0.01
4/3/2014		<0.01					0.0031 (o)		<0.01
7/8/2014				<0.01	<0.01	<0.01			
7/9/2014	0.036	<0.01	0.0011 (J)				0.0012 (J)	<0.01	<0.01
10/24/2014		<0.01					<0.01		<0.01
1/13/2015	0.03		<0.01	<0.01	<0.01	<0.01		<0.01	
1/14/2015		<0.01					0.0013		<0.01
5/10/2015		<0.01					<0.01		
5/11/2015									<0.01
7/16/2015	0.039		0.0011 (J)	<0.01	0.001 (J)	<0.01		<0.01	<0.01
7/17/2015		<0.01					0.001 (J)		
10/6/2015		<0.01					<0.01		<0.01
1/17/2016			<0.01				0.0012 (J)	<0.01	<0.01
1/18/2016	0.068	<0.01			<0.01	<0.01			
1/19/2016				<0.01					
4/26/2016		<0.01					<0.01		<0.01
7/26/2016				0.0005 (J)		<0.01			
7/27/2016	0.05		0.0016 (J)		0.0014 (J)		0.0008 (J)	0.0007 (J)	
7/28/2016		<0.01							0.0006 (J)
8/30/2016		<0.01	0.0015 (J)						
8/31/2016				0.001 (J)	0.0012 (J)	0.0011 (J)			
9/1/2016	0.119 (o)						0.0015 (J)	0.0011 (J)	0.0011 (J)
10/24/2016		<0.01							
10/25/2016	0.0519		0.0018 (J)				<0.01	<0.01	<0.01
10/26/2016				<0.01	0.0012 (J)	<0.01			
1/3/2017		<0.01							
1/4/2017			0.0021 (J)	<0.01	0.0012 (J)				<0.01
1/5/2017						<0.01	0.001 (J)	<0.01	
1/6/2017	0.0536								
4/3/2017		0.0004 (J)						0.0015 (J)	
4/4/2017			0.002 (J)				0.001 (J)		
4/5/2017					0.0013 (J)				0.001 (J)
4/6/2017	0.0447 (J)			0.0007 (J)		0.0011 (J)			
7/10/2017					0.0014 (J)				
7/11/2017		0.0006 (J)		0.0006 (J)			0.0008 (J)	0.0013 (J)	
7/12/2017			0.0021 (J)			0.0007 (J)			0.0011 (J)
7/13/2017	0.0269								
10/2/2017		<0.01					0.0009 (J)	0.0013 (J)	
10/3/2017			0.0014 (J)	0.0007 (J)					0.0009 (J)
10/4/2017	0.0378				0.0011 (J)	0.0008 (J)			
1/9/2018	0.0283 (J)	<0.01					0.0006 (J)	0.0012 (J)	
1/10/2018			0.0017 (J)			0.0007 (J)			0.0007 (J)
1/11/2018				0.0098 (J)	0.001 (J)				
7/9/2018		<0.01					<0.01		
7/10/2018			0.0021 (J)					<0.01	<0.01
7/11/2018	0.018 (J)			<0.01	<0.01	0.0019 (J)			
1/16/2019	0.018 (J)	<0.01	0.0021 (J)			<0.01	<0.01		
1/17/2019				<0.01	0.0028 (J)			<0.01	0.01 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/25/2019	0.017 (J)	<0.01							
3/26/2019			0.0018 (J)			<0.01	<0.01	<0.01	<0.01
3/27/2019				<0.01	<0.01				
8/26/2019	0.024 (J)	0.001 (J)							
8/27/2019			0.0062 (J)	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)	
8/28/2019									0.0011 (J)
10/7/2019		0.00052 (J)							
10/8/2019	0.021 (J)			0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)
10/9/2019			0.0019 (J)		0.00081 (J)				
4/6/2020	0.015 (J)	<0.01							
4/7/2020			0.0015 (J)	0.00094 (J)	0.00082 (J)		0.00074 (J)	0.0014 (J)	<0.01
4/8/2020						0.00058 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.01					<0.01	0.021	0.03	0.016
11/21/2000	<0.01	<0.01				<0.01	0.017	<0.01	0.023
1/20/2001	<0.01	<0.01				<0.01	0.03	0.028	0.025
3/14/2001	<0.01	<0.01				<0.01	0.019	0.052 (o)	0.021
7/16/2001	<0.01	<0.01				<0.01	0.029	0.08 (o)	0.019
11/1/2001	<0.01	<0.01				<0.01	0.021	0.13 (o)	0.022
4/25/2002	<0.01	<0.01				<0.01	0.03	0.021	0.019
11/20/2002	<0.01	<0.01				0.014	0.038	0.053 (o)	0.024
6/6/2003	<0.01	<0.01				<0.01	0.028	0.064 (o)	0.021
12/12/2003	0.036 (o)	<0.01				<0.01	0.027	<0.01	0.0066
5/26/2004	<0.01	<0.01				<0.01	0.021	0.012	0.013
12/7/2004	0.0021	<0.01				0.0039	0.016	0.019	0.013
6/21/2005	<0.01	<0.01				0.002	0.015	0.02	0.0067
12/12/2005	<0.01	<0.01				<0.01	0.022	<0.01	0.0033
6/27/2006	<0.01	<0.01				<0.01	0.027	0.0015	0.0047
12/4/2006	<0.01	<0.01				0.0019	0.025	0.0034	0.0084
6/23/2007	<0.01	<0.01				0.0015	0.023	<0.01	0.01
12/11/2007	<0.01	<0.01				<0.01	0.018	<0.01	0.0049
6/23/2008						0.0015			
6/24/2008	<0.01	<0.01					0.022	<0.01	0.032 (o)
12/4/2008		<0.01				<0.01			
12/5/2008	<0.01						0.023	0.0016	0.009
7/7/2009							0.012	<0.01	0.0044
7/8/2009	<0.01	<0.01				<0.01			
12/20/2009		<0.01							
12/21/2009	<0.01					<0.01	0.019	<0.01	0.0055
6/20/2010		<0.01				0.0015		<0.01	0.002
6/21/2010	<0.01		<0.01	0.0019	<0.01		0.01		
1/6/2011		<0.01						0.0017	
1/7/2011	<0.01		0.0018	0.0017	<0.01	<0.01	0.023		0.0039
7/7/2011			<0.01					0.008	0.0031
7/8/2011	0.0013		0.0019	0.0023	<0.01	<0.01	0.017		
1/17/2012		<0.01						0.0082	
1/18/2012	<0.01		<0.01	<0.01	<0.01	<0.01	0.0114		0.0023
7/9/2012		<0.01						0.01	
7/10/2012	<0.01		0.0013	<0.01	<0.01	<0.01	0.014		0.0022
1/17/2013		<0.01						0.01	
1/18/2013	<0.01		0.0015	<0.01	<0.01	<0.01	0.015		<0.01
7/16/2013								0.0061	
7/17/2013	<0.01	<0.01	<0.01	0.0019	<0.01	<0.01	0.011		<0.01
1/13/2014		<0.01						0.002	
1/14/2014	<0.01		0	<0.01	<0.01	<0.01	0.019		0.0013
7/9/2014	<0.01	<0.01		<0.01		0.0011 (J)	0.012	<0.01	<0.01
7/10/2014			<0.01		<0.01				
1/12/2015			<0.01				0.016		
1/13/2015		<0.01						<0.01	
1/14/2015	<0.01			<0.01	<0.01	<0.01			0.0015
7/16/2015		<0.01					0.0084	<0.01	
7/17/2015				<0.01		0.0013			0.0011 (J)
7/18/2015	<0.01		<0.01	<0.01	<0.01				
1/17/2016		<0.01	<0.01	<0.01					
1/18/2016	<0.01				<0.01	<0.01	0.014	<0.01	0.0011 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/27/2016		0.0008 (J)						0.0006 (J)	
7/28/2016			0.0007 (J)	0.0005 (J)		0.0011 (J)			0.001 (J)
7/29/2016	0.0009 (J)				0.0007 (J)		0.0077 (J)		
8/30/2016								<0.01	0.0013 (J)
8/31/2016		<0.01			<0.01	0.0024 (J)			
9/1/2016	0.0011 (J)		<0.01	<0.01			0.015		
10/25/2016			<0.01	<0.01					
10/26/2016	<0.01	0.001 (J)			<0.01		0.0106	<0.01	0.0014 (J)
10/27/2016						<0.01			
1/3/2017								0.001 (J)	
1/4/2017			<0.01	<0.01	<0.01				
1/5/2017	0.0012 (J)	<0.01							0.002 (J)
1/6/2017						<0.01	0.0098 (J)		
4/4/2017		0.0008 (J)	0.0011 (J)	0.0008 (J)			0.0101		
4/5/2017	0.0015 (J)								
4/6/2017					0.0006 (J)	0.0019 (J)		0.0013 (J)	0.0034 (J)
7/11/2017			0.0009 (J)		0.0005 (J)				
7/12/2017						0.0011 (J)	0.0096 (J)	0.0011 (J)	0.0024 (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)				0.0012 (J)	0.0022 (J)
10/4/2017	0.0055 (J)				0.0006 (J)	0.0011 (J)	0.0097 (J)		
1/9/2018				0.0007 (J)					0.0019 (J)
1/10/2018		<0.01	0.0008 (J)					0.0016 (J)	
1/11/2018	0.0009 (J)				<0.01	0.001 (J)	0.0109		
7/9/2018			<0.01						
7/10/2018		<0.01		<0.01				0.0055 (J)	0.0023 (J)
7/11/2018	<0.01				<0.01	<0.01	0.0055 (J)		
1/16/2019	<0.01						0.0024 (J)	<0.01	0.018 (J)
1/17/2019				0.01					
1/18/2019					<0.01	<0.01			
1/21/2019		<0.01	<0.01						
3/25/2019			<0.01				0.002 (J)		
3/26/2019	<0.01			<0.01				0.072	0.017 (J)
3/27/2019					<0.01	<0.01			
7/30/2019		0.00065 (J)							
8/27/2019		<0.01			0.00057 (J)		0.0027 (J)		0.0097 (J)
8/28/2019	0.0013 (J)		0.00089 (J)	0.00087 (J)		0.00089 (J)		0.0071 (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)	0.002 (J)	0.012 (J)	0.011 (J)
4/7/2020				<0.01	0.00049 (J)		0.0028 (J)	0.0022 (J)	0.0094 (J)
4/8/2020	0.00073 (J)	0.00069 (J)	0.001 (J)			0.0015 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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
1/20/2001	<0.005	<0.005	<0.005	<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
8/30/2016		<0.005	<0.005						
8/31/2016				<0.005	0.0018 (J)	<0.005			
9/1/2016	0.0102						<0.005	<0.005	<0.005
10/24/2016		<0.005							
10/25/2016	0.0037 (J)		<0.005				<0.005	<0.005	<0.005
10/26/2016				<0.005	0.0016 (J)	<0.005			
1/3/2017		<0.005							
1/4/2017			<0.005	<0.005	0.0014 (J)				<0.005
1/5/2017						<0.005	<0.005	<0.005	
1/6/2017	0.0039 (J)								
4/3/2017		0.0005 (J)						<0.005	
4/4/2017			<0.005				<0.005		
4/5/2017					0.0013 (J)				<0.005
4/6/2017	0.006 (J)			<0.005		<0.005			
7/10/2017					0.0013 (J)				
7/11/2017		0.0005 (J)		<0.005			0.0003 (J)	<0.005	
7/12/2017			<0.005			<0.005			<0.005
7/13/2017	0.0037 (J)								
10/2/2017		0.0004 (J)					<0.005	<0.005	
10/3/2017			<0.005	<0.005					<0.005
10/4/2017	0.0058 (J)				0.0011 (J)	<0.005			
1/9/2018	0.0053 (J)	0.0004 (J)					<0.005	<0.005	
1/10/2018			<0.005			<0.005			<0.005
1/11/2018				0.0003 (J)	0.0011 (J)				
7/9/2018		<0.005					<0.005		
7/10/2018			<0.005					<0.005	<0.005
7/11/2018	<0.05 (o)			<0.005	0.00096 (J)	<0.005			
8/26/2019	0.0037 (J)	0.00042 (J)							
8/27/2019			<0.005	<0.005	0.0009 (J)	<0.005	<0.005	<0.005	
8/28/2019									<0.005
10/7/2019		0.00046 (J)							
10/8/2019	0.0028 (J)			<0.005		<0.005	<0.005	<0.005	<0.005
10/9/2019			<0.005		0.00094 (J)				
4/6/2020	0.0021 (J)	0.00036 (J)							
4/7/2020			<0.005	<0.005	0.00077 (J)		<0.005	<0.005	<0.005
4/8/2020						<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
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	<0.005
1/20/2001	<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
7/16/2001	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	<0.005				<0.005	<0.005	0.012	<0.005
4/25/2002	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
8/30/2016								<0.005	<0.005
8/31/2016		<0.005			0.001 (J)	0.0021 (J,o)			
9/1/2016	0.0046 (J)		<0.005	<0.005			0.0024 (J)		
10/25/2016			<0.005	<0.005					
10/26/2016	0.0046 (J)	0.0011 (J)			0.0009 (J)		0.0011 (J)	<0.005	<0.005
10/27/2016						0.0017 (J)			
1/3/2017								<0.005	
1/4/2017			<0.005	<0.005	0.0007 (J)				
1/5/2017	0.0062 (J)	<0.005							<0.005
1/6/2017						0.0017 (J)	0.001 (J)		
4/4/2017		<0.005	<0.005	<0.005			0.001 (J)		
4/5/2017	0.007 (J)								
4/6/2017					<0.005	0.0017 (J)		<0.005	<0.005
7/11/2017			<0.005		<0.005				
7/12/2017						0.0016 (J)	0.0008 (J)	<0.005	<0.005
7/13/2017	0.0077 (J)	0.0003 (J)		<0.005					
10/2/2017			<0.005						
10/3/2017		0.0003 (J)		<0.005				<0.005	<0.005
10/4/2017	0.0073 (J)				0.0007 (J)	0.0015 (J,o)	0.001 (J)		
1/9/2018				<0.005					<0.005
1/10/2018		<0.005	<0.005					0.0004 (J)	
1/11/2018	0.0061 (J)				<0.005	0.0017 (J)	0.0008 (J)		
7/9/2018			<0.005						
7/10/2018		<0.005		<0.005				0.002 (J)	<0.005
7/11/2018	0.0064 (J)				<0.005	0.0017 (J)	<0.005		
7/30/2019		0.00032 (J)							
8/27/2019		<0.005			0.00077 (J)		0.0011 (J)		0.00038 (J)
8/28/2019	0.0023 (J)		<0.005	<0.005		0.00099 (J)		0.0024 (J)	
10/8/2019				<0.005					
10/9/2019	0.0024 (J)	<0.005	<0.005		<0.005	0.00099 (J)	0.0015 (J)	0.0037 (J)	<0.005
4/7/2020				<0.005	0.00037 (J)		0.0009 (J)	0.00053 (J)	<0.005
4/8/2020	0.0024 (J)	0.00036 (J)	<0.005			0.001 (J)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		2.72	2.36						
8/31/2016				2.2	2.61	1.23			
9/1/2016	11						1.28	2.45	1.99
10/24/2016		2.96							
10/25/2016	10.5		2.02				1.54	1.04 (U)	1.98
10/26/2016				1.96	3.28	0.641 (U)			
1/3/2017		2.76							
1/4/2017			2.1	1.88	3.77				1.72
1/5/2017						0.657 (U)	0.715 (U)	1.36	
1/6/2017	6.81								
4/3/2017		1.36						0.697 (U)	
4/4/2017			1.39 (U)				0.699 (U)		
4/5/2017					3.25				1.72
4/6/2017	8.93					0.439 (U)			
4/8/2017				0.893 (U)					
7/10/2017					1.55				
7/11/2017		1.85		1.89			1.12	0.754 (U)	
7/12/2017			1.63			0.414 (U)			1.11
7/13/2017	8.51								
10/2/2017		1.9					0.855 (U)	1.52	
10/3/2017			1.84	4.73					2.13
10/4/2017	3.85				1.68	1.33			
1/9/2018	4.28	2.39					0.861 (U)	1.17	
1/10/2018			2.11			1.21			1.74
1/11/2018				7.49	2.94				
7/9/2018		1.49					0.693 (U)		
7/10/2018			1.29					1.26	1.97
7/11/2018	5.99			5.88	2.03	1.4 (U)			
8/26/2019	6.03	3.03							
8/27/2019			2.41	5.09	2.09	1.27	1.32	1.75	
8/28/2019									2.04
10/7/2019		2.83							
10/8/2019	33.8			6.39		1.62	1.41	1.52	1.89
10/9/2019			3.13		3.11				
4/6/2020	25.7	2.83							
4/7/2020			1.97	7.87	2.18		1.41	1.82	4.17
4/8/2020						1.08 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								1.81	2.19
8/31/2016		1.01			5.96	3.3			
9/1/2016	5.19		2.21	1.05			5.27		
10/25/2016			1.51 (U)	1.2					
10/26/2016	4.25	0.725 (U)			7.42		2.32	2.03	2.67
10/27/2016						2.7			
1/3/2017								1.85	
1/4/2017			2.56	2.11	6.07				
1/5/2017	3.55	0.735 (U)							3.74
1/6/2017						4.45	5.1		
4/4/2017		0.87 (U)	1.77	2.02			5		
4/5/2017	4.39								
4/6/2017					3	3.1		2.66	2.36
7/11/2017			2.76		4.2				
7/12/2017						2.73	2.69	2.1	1.54
7/13/2017	2.44	0.42 (U)		0.576 (U)					
10/2/2017			4.15						
10/3/2017		0.995 (U)		0.86				2	3.63
10/4/2017	4.95				7.16	8.16	4.82		
1/9/2018				1.43					2.07
1/10/2018		0.698 (U)	1.96					2.55	
1/11/2018	3.53				3.57	2.31	4.48		
7/9/2018			1.11						
7/10/2018		1.01		1.63				3.14	1.63
7/11/2018	3.13				7.57	3.31	2.69		
8/27/2019		0.787 (U)			7.04		2.97		4.63
8/28/2019	2.01		1.13 (U)	1.4 (U)		1.91		3.74	
10/8/2019				1.88					
10/9/2019	2.91	0.22 (U)	2.28		3.68	3.09	2.17	7.23	5.45
4/7/2020				1.8	7.66		2.44	3.57	6.25
4/8/2020	2.79	1.13 (U)	4.19			1.92			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		0.1 (J)	0.22 (J)						
8/31/2016				<0.3	0.7	<0.3			
9/1/2016	<0.3						0.25 (J)	<0.3	0.55
10/24/2016		0.18 (J)							
10/25/2016	0.07 (J)		<0.3				0.43	0.5	0.36
10/26/2016				<0.3	0.91	0.55			
1/3/2017		0.18 (J)							
1/4/2017			0.18 (J)	<0.3	0.51				0.1 (J)
1/5/2017						0.09 (J)	0.21 (J)	0.22 (J)	
1/6/2017	0.2 (J)								
4/3/2017		0.12 (J)						<0.3	
4/4/2017			<0.3				0.45		
4/5/2017					0.71				0.2 (J)
4/6/2017	0.05 (J)			<0.3		<0.3			
7/10/2017					0.88				
7/11/2017		0.39		<0.3			0.41	0.06 (J)	
7/12/2017			0.04 (J)			<0.3			0.04 (J)
7/13/2017	0.41								
10/2/2017		0.12 (J)					<0.3	<0.3	
10/3/2017			<0.3	<0.3					0.86
10/4/2017	0.04 (J)				0.37	<0.3			
1/9/2018	0.46	0.21 (J)					<0.3	<0.3	
1/10/2018			<0.3			<0.3			<0.3
1/11/2018				<0.3	1.4				
7/9/2018		0.04 (J)					<0.3		
7/10/2018			<0.3					0.15 (J)	<0.3
7/11/2018	<0.3			<0.3	0.62	<0.3			
1/16/2019	0.49	<0.3	<0.3			<0.3	<0.3		
1/17/2019				<0.3	1.2			<0.3	<0.3
3/25/2019	0.21 (J)	0.082 (J)							
3/26/2019			0.051 (J)			0.052 (J)	0.13 (J)	0.13 (J)	0.11 (J)
3/27/2019				<0.3	0.036 (J)				
8/26/2019	<0.3	0.13							
8/27/2019			<0.3	<0.3	0.3	<0.3	<0.3	<0.3	
8/28/2019									<0.3
10/7/2019		<0.3							
10/8/2019	<0.3			<0.3		<0.3	<0.3	<0.3	<0.3
10/9/2019			<0.3		<0.3				
4/6/2020	0.13 (J)	0.089 (J)							
4/7/2020			<0.3	<0.3	0.27 (J)		<0.3	<0.3	<0.3
4/8/2020						<0.3			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								0.04 (J)	0.09 (J)
8/31/2016		0.07 (J)			0.04 (J)	0.55			
9/1/2016	0.68		<0.3	<0.3			<0.3		
10/25/2016			<0.3	<0.3					
10/26/2016	0.68	0.62			0.12 (J)		0.05 (J)	0.05 (J)	0.24 (J)
10/27/2016						0.26 (J)			
1/3/2017								0.08 (J)	
1/4/2017			0.04 (J)	<0.3	0.06 (J)				
1/5/2017	0.73	0.17 (J)							0.11 (J)
1/6/2017						0.25 (J)	0.08 (J)		
4/4/2017		0.08 (J)	0.02 (J)	<0.3			<0.3		
4/5/2017	1.6								
4/6/2017					<0.3	0.16 (J)		0.006 (J)	0.3
7/11/2017			0.14 (J)		0.03 (J)				
7/12/2017						0.2 (J)	0.38	0.05 (J)	0.15 (J)
7/13/2017	1.7	0.06 (J)		<0.3					
10/2/2017			<0.3						
10/3/2017		0.06 (J)		<0.3				0.11 (J)	0.11 (J)
10/4/2017	1.8				0.12 (J)	0.22 (J)	<0.3		
1/9/2018				<0.3					<0.3
1/10/2018		<0.3	<0.3					<0.3	
1/11/2018	1.5				<0.3	0.98	<0.3		
7/9/2018			<0.3						
7/10/2018		<0.3		<0.3				0.2 (J)	<0.3
7/11/2018	1.8				<0.3	0.14 (J)	<0.3		
1/16/2019	1.4						1.2	<0.3	0.053 (J)
1/17/2019				<0.3					
1/18/2019					<0.3	0.24 (J)			
1/21/2019		<0.3	<0.3						
3/25/2019			0.043 (J)				0.064 (J)		
3/26/2019	0.89			0.071 (J)				<0.3	0.046 (J)
3/27/2019					<0.3	0.13 (J)			
7/30/2019		0.083 (J)							
8/27/2019		<0.3			0.1		0.031 (J)		0.13 (J)
8/28/2019	0.61		<0.3	<0.3		0.088 (J)		0.097 (J)	
10/8/2019				<0.3					
10/9/2019	<0.3	<0.3	<0.3		<0.3	0.068 (J)	<0.3	<0.3	<0.3
4/7/2020				<0.3	<0.3		<0.3	<0.3	<0.3
4/8/2020	0.55	<0.3	<0.3			0.058 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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
1/20/2001	<0.005	<0.005	<0.005	<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		<0.005	<0.005	<0.005	<0.005	<0.005	0.011 (o)	<0.005	<0.005
6/6/2003	0.037 (o)	0.016 (o)	<0.005	0.0068	<0.005	0.0078	<0.005	<0.005	0.099 (o)
12/12/2003	0.008	0.0095	<0.005	<0.005	<0.005	0.0055	<0.005	0.0065	0.017 (o)
5/26/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2004	<0.005	<0.005	<0.005	<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		<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		<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		<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		<0.005					<0.005		<0.005
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2008		<0.005					<0.005		<0.005
6/23/2008	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005
6/24/2008			<0.005				<0.005	<0.005	<0.005
11/3/2008		<0.005					<0.005		<0.005
12/4/2008	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005
12/5/2008			<0.005					<0.005	<0.005
3/25/2009		<0.005					<0.005		<0.005
7/7/2009	<0.005	<0.005	<0.005						<0.005
7/8/2009				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/14/2009		<0.005					<0.005		<0.005
12/20/2009	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005
12/21/2009				<0.005	<0.005	<0.005			<0.005
3/4/2010		<0.005					<0.005		<0.005
6/20/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2010									<0.005
9/14/2010		<0.005					<0.005		<0.005
1/6/2011			<0.005	<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		<0.005
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2011		<0.005					<0.005		<0.005
1/17/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/18/2012									<0.005
4/4/2012		<0.005					<0.005		<0.005
7/9/2012	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/10/2012		<0.005							<0.005
10/9/2012		<0.005					<0.005		<0.005
1/17/2013			<0.005	<0.005	<0.005	<0.005			<0.005
1/18/2013	<0.005	<0.005					<0.005	<0.005	<0.005
4/5/2013		<0.005					<0.005		<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013			<0.005	<0.005	<0.005	<0.005			
7/17/2013	<0.005	<0.005					<0.005	<0.005	<0.005
10/11/2013		<0.005					<0.005		<0.005
1/13/2014	0.013		<0.005	<0.005	0.004	<0.005		<0.005	
1/14/2014		<0.005					<0.005		<0.005
4/3/2014		<0.005					<0.005		<0.005
7/8/2014				<0.005	<0.005	<0.005			
7/9/2014	0.0076 (J)	<0.005	<0.005				<0.005	<0.005	<0.005
10/24/2014		<0.005					<0.005		<0.005
1/13/2015	0.0057 (J)		<0.005	<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									<0.005
7/16/2015	0.009 (J)		<0.005	<0.005	0.0044 (J)	<0.005		<0.005	<0.005
7/17/2015		<0.005					<0.005		
10/6/2015		<0.005							
1/17/2016			<0.005				<0.005	<0.005	<0.005
1/18/2016	0.0094 (J)	<0.005			0.0034 (J)	<0.005			
1/19/2016				<0.005					
4/26/2016		<0.005					<0.005		<0.005
7/26/2016				0.0001 (J)		<0.005			
7/27/2016	0.0058		<0.005		0.0001 (J)		<0.005	<0.005	
7/28/2016		<0.005							<0.005
8/30/2016		<0.005	<0.005						
8/31/2016				0.0002 (J)	0.0001 (J)	<0.005			
9/1/2016	0.0663 (o)						<0.005	<0.005	<0.005
10/24/2016		<0.005							
10/25/2016	0.0003 (J)		<0.005				<0.005	<0.005	0.0002 (J)
10/26/2016				0.0001 (J)	0.0001 (J)	<0.005			
1/3/2017		0.0001 (J)							
1/4/2017			<0.005	0.0002 (J)	<0.005				0.0001 (J)
1/5/2017						0.0002 (J)	<0.005	<0.005	
1/6/2017	0.006								
4/3/2017		0.0002 (J)						0.0003 (J)	
4/4/2017			<0.005				0.0001 (J)		
4/5/2017					0.0003 (J)				0.0002 (J)
4/6/2017	0.0109			0.0003 (J)		0.0005 (J)			
7/10/2017					0.0003 (J)				
7/11/2017		0.0001 (J)		0.0002 (J)			8E-05 (J)	0.0001 (J)	
7/12/2017			<0.005			0.0005 (J)			0.0001 (J)
7/13/2017	0.007								
10/2/2017		0.0001 (J)					0.0001 (J)	0.0002 (J)	
10/3/2017			<0.005	0.0003 (J)					0.0001 (J)
10/4/2017	0.0042 (J)				0.0001 (J)	0.0007 (J)			
1/9/2018	0.0098	0.0001 (J)					<0.005	0.0002 (J)	
1/10/2018			0.0001 (J)			0.0009 (J)			0.0002 (J)
1/11/2018				0.0003 (J)	0.0002 (J)				
7/9/2018		<0.005					<0.005		
7/10/2018			<0.005					<0.005	<0.005
7/11/2018	0.0028 (J)			<0.005 (o)	<0.005	0.0015 (J)			
1/16/2019	<0.025 (o)	<0.005	<0.005			0.00061 (J)	<0.005		
1/17/2019				0.00028 (J)	<0.005			<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/25/2019	0.0019 (J)	<0.005							
3/26/2019			<0.005			<0.005	<0.005	<0.005	<0.005
3/27/2019				0.00029 (J)	<0.005				
8/26/2019	0.013 (J)	<0.005							
8/27/2019			<0.005	0.00021 (J)	<0.005	0.0001 (J)	0.00051 (J)	0.00033 (J)	
8/28/2019									0.0001 (J)
10/7/2019		<0.005							
10/8/2019	0.0098 (J)			0.00028 (J)		0.00013 (J)	<0.005	0.00012 (J)	0.0001 (J)
10/9/2019			<0.005		6.6E-05 (J)				
4/6/2020	0.0024 (J)	0.0001 (J)							
4/7/2020			0.00012 (J)	0.00036 (J)	8.1E-05 (J)		<0.005	8.6E-05 (J)	0.00023 (J)
4/8/2020						0.00017 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.005					<0.005	0.0083	0.017 (o)	<0.005
11/21/2000	<0.005	0.0069				<0.005	0.0052	<0.005	<0.005
1/20/2001	<0.005	<0.005				<0.005	<0.005	0.011	<0.005
3/14/2001	<0.005	<0.005				<0.005	<0.005	0.026 (o)	<0.005
7/16/2001	<0.005	<0.005				<0.005	0.011	0.043 (o)	<0.005
11/1/2001	<0.005	<0.005				<0.005	<0.005	0.075 (o)	<0.005
4/25/2002	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
11/20/2002	<0.005	<0.005				0.0086 (o)	0.018 (o)	0.057 (o)	0.0057 (J)
6/6/2003	<0.005	<0.005				<0.005	0.015 (o)	0.16 (o)	0.013
12/12/2003	<0.005	<0.005				<0.005	0.0072	<0.005	<0.005
5/26/2004	<0.005	<0.005				<0.005	0.0055	0.011	<0.005
12/7/2004	<0.005	<0.005				0.0051	<0.005	0.038 (o)	<0.005
6/21/2005	<0.005	<0.005				<0.005	<0.005	0.036 (o)	<0.005
12/12/2005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
6/27/2006	<0.005	<0.005				<0.005	0.024 (o)	<0.005	<0.005
12/4/2006	<0.005	<0.005				<0.005	0.023 (o)	<0.005	<0.005
6/23/2007	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
12/11/2007	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
6/23/2008						<0.005			
6/24/2008	<0.005	<0.005					0.02 (o)	<0.005	0.02
12/4/2008		<0.005				<0.005			
12/5/2008	<0.005						<0.005	<0.005	<0.005
7/7/2009							<0.005	<0.005	<0.005
7/8/2009	<0.005	<0.005				<0.005			
12/20/2009		<0.005							
12/21/2009	<0.005					<0.005	<0.005	<0.005	<0.005
6/20/2010		<0.005				<0.005	<0.005	<0.005	<0.005
6/21/2010	<0.005		<0.005	<0.005	<0.005		<0.005		
1/6/2011		<0.005						<0.005	
1/7/2011	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
7/7/2011			<0.005					<0.005	<0.005
7/8/2011	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		
1/17/2012		<0.005						<0.005	
1/18/2012	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
7/9/2012		<0.005						<0.005	
7/10/2012	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
1/17/2013		<0.005						<0.005	
1/18/2013	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
7/16/2013								<0.005	
7/17/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
1/13/2014		<0.005						<0.005	
1/14/2014	<0.005		<0.005	<0.005	<0.005	<0.005	0.005		<0.005
7/9/2014	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/10/2014			<0.005		<0.005				
1/12/2015			<0.005				<0.005		
1/13/2015		<0.005						<0.005	
1/14/2015	<0.005			<0.005	<0.005	<0.005			<0.005
7/16/2015		<0.005					<0.005	<0.005	
7/17/2015				<0.005		<0.005			<0.005
7/18/2015	<0.005		<0.005		<0.005				
1/17/2016		<0.005	<0.005	<0.005					
1/18/2016	<0.005				<0.005	<0.005	0.0055 (J)	<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/27/2016		<0.005						<0.005	
7/28/2016			<0.005	<0.005		<0.005			<0.005
7/29/2016	<0.005				0.0004 (J)		0.003 (J)		
8/30/2016								<0.005	<0.005
8/31/2016		<0.005			0.0003 (J)	0.0007 (J)			
9/1/2016	<0.005		<0.005	<0.005			0.0166 (a)		
10/25/2016			0.0001 (J)	<0.005					
10/26/2016	<0.005	<0.005			0.0003 (J)		0.0057	0.0002 (J)	<0.005
10/27/2016						<0.005			
1/3/2017								0.0001 (J)	
1/4/2017			<0.005	<0.005	0.0003 (J)				
1/5/2017	<0.005	<0.005							0.0003 (J)
1/6/2017						<0.005	0.0053		
4/4/2017		0.0002 (J)	7E-05 (J)	9E-05 (J)			0.0092		
4/5/2017	0.0009 (J)								
4/6/2017					0.0003 (J)	0.0001 (J)		0.0003 (J)	0.0002 (J)
7/11/2017			<0.005		0.0002 (J)				
7/12/2017						<0.005	0.006	0.0002 (J)	0.0002 (J)
7/13/2017	<0.005	0.0003 (J)		7E-05 (J)					
10/2/2017			<0.005						
10/3/2017		<0.005		0.0001 (J)				0.0002 (J)	0.0001 (J)
10/4/2017	0.0001 (J)				0.0008 (J)	9E-05 (J)	0.0057		
1/9/2018				9E-05 (J)					0.0003 (J)
1/10/2018		8E-05 (J)	0.0002 (J)					0.0003 (J)	
1/11/2018	0.0001 (J)				0.0009 (J)	0.0002 (J)	0.0085		
7/9/2018			<0.005						
7/10/2018		<0.005		<0.005				<0.005	<0.005
7/11/2018	<0.005				0.001 (J)	<0.005	0.0029 (J)		
1/16/2019	<0.005						<0.005	<0.005	<0.005
1/17/2019				<0.005					
1/18/2019					0.0012 (J)	<0.005			
1/21/2019		<0.005	<0.005						
3/25/2019			<0.005				<0.005		
3/26/2019	<0.005			<0.005				<0.005	<0.005
3/27/2019					0.00047 (J)	<0.005			
7/30/2019		0.0002 (J)							
8/27/2019		<0.005			0.003 (J)		0.001 (J)		0.0011 (J)
8/28/2019	<0.005		6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)		0.0011 (J)	
10/8/2019				0.00016 (J)					
10/9/2019	0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)	<0.005	0.00041 (J)	0.0025 (J)	0.00033 (J)
4/7/2020				<0.005	0.00067 (J)		0.00073 (J)	0.0014 (J)	0.00063 (J)
4/8/2020	8.4E-05 (J)	<0.005	<0.005			0.00021 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		<0.03	<0.03						
8/31/2016				<0.03	<0.03	<0.03			
9/1/2016	<0.03						<0.03	<0.03	<0.03
10/24/2016		<0.03							
10/25/2016	<0.03		<0.03				<0.03	<0.03	<0.03
10/26/2016				<0.03	<0.03	<0.03			
1/3/2017		<0.03							
1/4/2017			<0.03	<0.03	<0.03				<0.03
1/5/2017						<0.03	<0.03	<0.03	
1/6/2017	<0.03								
4/3/2017		<0.03						<0.03	
4/4/2017			<0.03				<0.03		
4/5/2017					0.0012 (J)				<0.03
4/6/2017	<0.03			<0.03		<0.03			
7/10/2017					<0.03				
7/11/2017		<0.03		<0.03			<0.03	<0.03	
7/12/2017			<0.03			<0.03			<0.03
7/13/2017	<0.03								
10/2/2017		<0.03					<0.03	<0.03	
10/3/2017			<0.03	<0.03					<0.03
10/4/2017	<0.03				<0.03	<0.03			
1/9/2018	<0.25 (o)	<0.03					<0.03	<0.03	
1/10/2018			<0.03			<0.03			<0.03
1/11/2018				<0.03	<0.03				
7/9/2018		0.001 (J)					<0.03		
7/10/2018			<0.03					<0.03	<0.03
7/11/2018	<0.25 (o)			<0.03	0.00098 (J)	<0.03			
8/26/2019	<0.15 (o)	0.0012 (J)							
8/27/2019			<0.03	<0.03	0.00094 (J)	<0.03	<0.03	<0.03	
8/28/2019									<0.03
10/7/2019		0.0012 (J)							
10/8/2019	<0.15 (o)			<0.03		<0.03	<0.03	<0.03	<0.03
10/9/2019			<0.03		0.0011 (J)				
4/6/2020	<0.15 (o)	0.00086 (J)							
4/7/2020			<0.03	<0.03	0.00094 (J)		<0.03	<0.03	<0.03
4/8/2020						<0.03			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								0.0042 (J)	<0.03
8/31/2016		<0.03			<0.03	<0.05 (o)			
9/1/2016	0.0066 (J)		<0.03	<0.03			0.0092 (J)		
10/25/2016			<0.03	<0.03					
10/26/2016	0.0065 (J)	<0.03			<0.03		0.0046 (J)	<0.03	<0.03
10/27/2016						0.0023 (J)			
1/3/2017								0.0024 (J)	
1/4/2017			<0.03	<0.03	<0.03				
1/5/2017	0.0062 (J)	<0.03							<0.03
1/6/2017						0.0021 (J)	0.0042 (J)		
4/4/2017		<0.03	<0.03	<0.03			0.0056 (J)		
4/5/2017	0.007 (J)								
4/6/2017					<0.03	0.0021 (J)		0.0051 (J)	<0.03
7/11/2017			<0.03		<0.03				
7/12/2017						0.0017 (J)	0.0035 (J)	0.0031 (J)	<0.03
7/13/2017	0.0069 (J)	<0.03		<0.03					
10/2/2017			<0.03						
10/3/2017		<0.03		<0.03				0.0027 (J)	<0.03
10/4/2017	0.0082 (J)				<0.03	0.0021 (J)	0.0041 (J)		
1/9/2018				<0.03					<0.03
1/10/2018		<0.03	<0.03					0.0041 (J)	
1/11/2018	0.0061 (J)				<0.03	0.0022 (J)	0.0052 (J)		
7/9/2018			<0.03						
7/10/2018		<0.03		<0.03				0.005 (J)	<0.03
7/11/2018	0.0075 (J)				<0.03	0.0019 (J)	0.0039 (J)		
7/30/2019		<0.03							
8/27/2019		<0.03			<0.03		0.013 (J)		<0.03
8/28/2019	0.0041 (J)		<0.03	<0.03		0.0018 (J)		<0.03	
10/8/2019				<0.03					
10/9/2019	0.0046 (J)	<0.03	<0.03		<0.03	0.0018 (J)	0.013 (J)	<0.03	<0.03
4/7/2020				<0.03	<0.03		0.014 (J)	<0.03	<0.03
4/8/2020	0.0051 (J)	<0.03	<0.03			0.0018 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								<0.0005	<0.0005
8/31/2016		<0.0005			<0.0005	<0.0005			
9/1/2016	<0.0005		<0.0005	<0.0005			<0.0005		
10/25/2016			<0.0005	<0.0005					
10/26/2016	<0.0005	<0.0005			<0.0005		<0.0005	<0.0005	<0.0005
10/27/2016						<0.0005			
1/3/2017								<0.0005	
1/4/2017			<0.0005	<0.0005	<0.0005				
1/5/2017	<0.0005	<0.0005							<0.0005
1/6/2017						<0.0005	<0.0005		
4/4/2017		<0.0005	<0.0005	<0.0005			<0.0005		
4/5/2017	<0.0005								
4/6/2017					<0.0005	<0.0005		<0.0005	<0.0005
7/11/2017			<0.0005		<0.0005				
7/12/2017						<0.0005	<0.0005	<0.0005	<0.0005
7/13/2017	<0.0005	<0.0005		<0.0005					
10/2/2017			<0.0005						
10/3/2017		<0.0005		<0.0005				<0.0005	<0.0005
10/4/2017	<0.0005				<0.0005	5E-05 (J)	<0.0005		
1/9/2018				<0.0005					<0.0005
1/10/2018		<0.0005	<0.0005					<0.0005	
1/11/2018	<0.0005				<0.0005	<0.0005	<0.0005		
7/9/2018			<0.0005						
7/10/2018		<0.0005		<0.0005				<0.0005	<0.0005
7/11/2018	<0.0005				<0.0005	<0.0005	<0.0005		
1/16/2019	<0.0005						4.9E-05 (J)	<0.0005	4.3E-05 (J)
1/17/2019				<0.0005					
1/18/2019					<0.0005	<0.0005			
1/21/2019		<0.0005	<0.0005						
7/30/2019		<0.0005							
8/27/2019		<0.0005			<0.0005		<0.0005		<0.0005
8/28/2019	<0.0005		<0.0005	<0.0005		<0.0005		<0.0005	
10/9/2019								<0.0005	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		<0.01	0.175						
8/31/2016				<0.01	<0.01	<0.01			
9/1/2016	0.0098 (J)						0.0027 (J)	0.132	0.08
10/24/2016		<0.01							
10/25/2016	<0.01		0.242				0.0028 (J)	0.117	0.08
10/26/2016				<0.01	<0.01	<0.01			
1/3/2017		<0.01							
1/4/2017			0.167	<0.01	<0.01				0.0786
1/5/2017						<0.01	0.0022 (J)	0.109	
1/6/2017	<0.01								
4/3/2017		<0.01						0.0994	
4/4/2017			0.172				0.0022 (J)		
4/5/2017					<0.01				0.113
4/6/2017	<0.01			<0.01		<0.01			
7/10/2017					<0.01				
7/11/2017		<0.01		<0.01			0.0024 (J)	0.0938	
7/12/2017			0.182			<0.01			0.178
7/13/2017	0.0013 (J)								
10/2/2017		<0.01					0.0025 (J)	0.103	
10/3/2017			0.162	<0.01					0.201
10/4/2017	0.0013 (J)				<0.01	<0.01			
1/9/2018	<0.01	<0.01					0.0038 (J)	0.106	
1/10/2018			0.117			<0.01			0.161
1/11/2018				0.0018 (J)	<0.01				
7/9/2018		<0.01					0.01 (o)		
7/10/2018			0.11					0.088	0.14
7/11/2018	<0.05 (o)			<0.01	<0.01	<0.01			
8/26/2019	<0.05 (o)	<0.01							
8/27/2019			0.06	<0.01	<0.01	<0.01	0.028	0.095	
8/28/2019									0.22
10/7/2019		<0.01							
10/8/2019	<0.05 (o)			<0.01		<0.01	0.034	0.091	0.2
10/9/2019			0.06		<0.01				
4/6/2020	<0.01	<0.01							
4/7/2020			0.014	<0.01	<0.01		0.014	0.07	0.25
4/8/2020						0.0056 (J)			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								<0.01	<0.01
8/31/2016		<0.01			<0.01	<0.01			
9/1/2016	<0.01		0.296	0.0686			0.035		
10/25/2016			0.395	0.0018 (J)					
10/26/2016	<0.01	<0.01			<0.01		0.0267	<0.01	<0.01
10/27/2016						<0.01			
1/3/2017								<0.01	
1/4/2017			0.229	0.0222	<0.01				
1/5/2017	<0.01	<0.01							<0.01
1/6/2017						<0.01	0.0278		
4/4/2017		<0.01	0.147	0.0476			0.0265		
4/5/2017	<0.01								
4/6/2017					<0.01	<0.01		<0.01	<0.01
7/11/2017			0.136		<0.01				
7/12/2017						<0.01	0.0209	<0.01	<0.01
7/13/2017	<0.01	<0.01		0.0105					
10/2/2017			0.13						
10/3/2017		<0.01		0.0031 (J)				<0.01	<0.01
10/4/2017	<0.01				<0.01	<0.01	0.0181		
1/9/2018				0.09					<0.01
1/10/2018		<0.01	0.229					<0.01	
1/11/2018	<0.01				<0.01	<0.01	0.0237		
7/9/2018			0.13						
7/10/2018		<0.01		0.047				<0.01	<0.01
7/11/2018	<0.01				<0.01	<0.01	0.024		
7/30/2019		<0.01							
8/27/2019		<0.01			<0.01		0.1		0.0026 (J)
8/28/2019	0.004 (J)		0.11	0.07		<0.01		0.0012 (J)	
10/8/2019				0.078					
10/9/2019	0.0036 (J)	<0.01	0.071		<0.01	<0.01	0.1	<0.01	<0.01
4/7/2020				0.012	<0.01		0.13	<0.01	<0.01
4/8/2020	0.0024 (J)	<0.01	0.06			<0.01			

Time Series

Constituent: pH (SU) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013			5.38	5.2	4.17	4.95	4.62	5.96	4.92
10/11/2014		4.42					4.58		5.17
10/24/2016		4.36							
10/25/2016	6.17		5.51				4.79	6.46	5.58
10/26/2016				5.08	4.04	4.95			
1/3/2017		4.28							
1/4/2017			5.46	5.06	4.01				5.51
1/5/2017						4.97	4.73	6.25	
1/6/2017	6.16								
4/3/2017		4.29						6.25	
4/4/2017			5.43				4.68		
4/5/2017					4	4.81			5.51
4/6/2017	6.26			4.97					
7/10/2017					3.89				
7/11/2017		4.35		5.26			4.72	6.5	
7/12/2017			5.46			4.83			5.84
7/13/2017	5.99								
10/2/2017		4.32					5.13	6.83	
10/3/2017			5.65	5.07					5.55
10/4/2017	6.16				4.06	4.71			
1/9/2018	6.43	4.44					5.59	6.57	
1/10/2018			5.67			5.17			5.99
1/11/2018				5.18	3.96				
7/9/2018		4.4					5.11		
7/10/2018			5.71					6.42	5.5
7/11/2018	6.1			4.82	3.95	4.49			
1/16/2019	6.05	6.16 (o)	5.59			6.45 (o)	6.82		
1/17/2019				4.91	3.89			8.44 (o)	7.13
3/25/2019	6.06	4.4							
3/26/2019			5.77			4.96	5.74	6.65	5.57
3/27/2019				5.18	4.11				
8/26/2019	5.91	4.26							
8/27/2019			5.84	5.17	4.02	4.9	5.58	6.57	
8/28/2019									5.57
10/7/2019		4.24							
10/8/2019	5.74			4.93		4.81	5.68	6.65	5.54
10/9/2019			5.82		4.25				
4/6/2020	6.02	4.52							
4/7/2020			5.3	5.05	4.1		6.2	6.83	5.94
4/8/2020						4.81			

Time Series

Constituent: pH (SU) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/16/2013	4.55	4.52	6.1	5.71	4.91	5.05	6.22	5.95	5.25
10/25/2016			6.06	5.41					
10/26/2016	4.45	4.48			4.6		6.06	5.27	5.21
10/27/2016						4.65			
1/3/2017								5.09	
1/4/2017			6.05	5.6	4.63				
1/5/2017	4.45	4.85							5.2
1/6/2017						4.56	6.02		
4/4/2017		4.58	6.03	5.94			6.08		
4/5/2017	4.33								
4/6/2017					4.79	4.5		5.22	5.17
7/11/2017			5.96		4.73				
7/12/2017						4.56	5.93	5.29	5.24
7/13/2017	4.11	4.74		5.6					
10/2/2017			5.88						
10/3/2017		4.57		5.18				5.08	5.36
10/4/2017	4.09				4.74	4.72	5.77		
1/9/2018				6.14					5.4
1/10/2018		5.31	6.21					5.83	
1/11/2018	4.4				5.22	4.34	5.98		
7/9/2018			6.24						
7/10/2018		4.58		5.7				6.42	5.31
7/11/2018	4.07				4.68	4.68	6.01		
1/16/2019	4.05						5.83	6.66	5.99
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				5.74		
3/26/2019	4.62			6.08				5.1	5.94
3/27/2019					4.77	4.38			
7/30/2019		4.74							
8/27/2019		4.77			4.89		5.7		5.67
8/28/2019	4.62		6.34	6.05		4.68		5.95	
10/8/2019				6.09					
10/9/2019	4.66	4.79	6.5		4.68	4.62	5.79	6.11	5.66
4/7/2020				6	4.8		5.74	5.45	5.86
4/8/2020	4.71	4.66	6.31			4.73			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	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	<0.01	<0.01	<0.01
11/21/2000	<0.01		<0.01	<0.01	<0.01	<0.01	0.052	<0.01	<0.01
1/20/2001	<0.01	<0.01	0.017	<0.01	<0.01	<0.01	0.053	<0.01	<0.01
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.049	<0.01	<0.01
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.038	<0.01	<0.01
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	<0.01
4/25/2002	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	0.1 (o)	<0.01	<0.01
11/20/2002		<0.01	0.19 (o)	<0.01	<0.01	<0.01	0.018	0.0094	<0.01
6/6/2003	<0.01	<0.01	0.32 (o)	<0.01	<0.01	<0.01	<0.01	0.021 (o)	0.021 (o)
12/12/2003	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	0.016 (o)	0.0078 (o)
5/26/2004	<0.01	<0.01	0.017	<0.01	<0.01	<0.01	0.023	<0.01	0.0053
12/7/2004	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	0.019	<0.01	<0.01
6/21/2005	<0.01	<0.01	0.0088	<0.01	<0.01	<0.01	0.019	<0.01	<0.01
12/12/2005	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	0.0095	<0.01	<0.01
4/4/2006		<0.01					0.033		<0.01
6/27/2006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/30/2006		<0.01					<0.01		<0.01
12/4/2006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.032	<0.01	<0.01
2/15/2007		<0.01					0.034		<0.01
6/23/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/11/2007		<0.01					0.022		<0.01
12/11/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.045	<0.01	<0.01
3/11/2008		<0.01					0.02		<0.01
6/23/2008	<0.01	<0.01		<0.01	<0.01	<0.01			
6/24/2008			<0.01				<0.01	<0.01	<0.01
11/3/2008		<0.01					0.052		<0.01
12/4/2008	<0.01	<0.01		<0.01	<0.01	<0.01	0.054		
12/5/2008			<0.01					<0.01	<0.01
3/25/2009		<0.01					0.072		<0.01
7/7/2009	<0.01	<0.01	<0.01						
7/8/2009				<0.01	<0.01	<0.01	0.021	<0.01	<0.01
9/14/2009		<0.01					0.015		<0.01
12/20/2009	<0.01	<0.01	<0.01				0.072	<0.01	<0.01
12/21/2009				<0.01	<0.01	<0.01			
3/4/2010		<0.01					0.083		<0.01
6/20/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	
6/21/2010									<0.01
9/14/2010		<0.01					0.085		<0.01
1/6/2011			<0.01	<0.01		<0.01			
1/7/2011	<0.01	<0.01			<0.01		0.028	<0.01	<0.01
4/15/2011		<0.01					<0.01		<0.01
7/7/2011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/25/2011		<0.01					0.02		<0.01
1/17/2012	<0.01	<0.01	<0.01	0.023	<0.01	<0.01	0.016	<0.01	
1/18/2012									<0.01
4/4/2012		<0.0005 (o)					0.0156		<0.01
7/9/2012	<0.01		<0.01	0.016	<0.01	<0.01	<0.01	0.066 (o)	
7/10/2012		<0.01							<0.01
10/9/2012		<0.01					0.0094		<0.01
1/17/2013			<0.01	0.033	<0.01	<0.01			
1/18/2013	0.009	<0.01					0.0067	0.04 (o)	<0.01
4/5/2013		<0.01					0.0077		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013			0.012	0.0068	<0.01	<0.01			
7/17/2013	0.011	<0.01					0.01	<0.01	<0.01
10/11/2013		<0.01					0.0087		0.0069
1/13/2014	0.012		<0.01	0.036	<0.01	<0.01		<0.01	
1/14/2014		<0.01					0.012		<0.01
4/3/2014		<0.01					0.022		<0.01
7/8/2014				0.017	<0.01	<0.01			
7/9/2014	0.011	<0.01	<0.01				0.0089	<0.01	0.005
10/24/2014		<0.01					0.017		<0.01
1/13/2015	0.0092		<0.01	0.027	<0.01	<0.01		<0.01	
1/14/2015		<0.01					<0.01		<0.01
5/10/2015		<0.01					<0.01		
5/11/2015									<0.01
7/16/2015	0.014		<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
7/17/2015		<0.01					<0.01		
10/6/2015		<0.01					<0.01		0.0073
1/17/2016			0.023				<0.01	<0.01	0.0031 (J)
1/18/2016	0.023	<0.01			<0.01	<0.01			
1/19/2016				0.023					
4/26/2016		<0.01					0.00428 (J)		0.00497 (J)
7/26/2016				0.0056 (J)		<0.01			
7/27/2016	0.0323		0.002 (J)		0.0025 (J)		0.0038 (J)	<0.01	
7/28/2016		0.001 (J)							0.0076 (J)
8/30/2016		<0.01	0.002 (J)						
8/31/2016				0.0084 (J)	0.0019 (J)	<0.01			
9/1/2016	0.0438						0.0056 (J)	<0.01	0.0052 (J)
10/24/2016		0.0013 (J)							
10/25/2016	0.031		0.0022 (J)				0.0023 (J)	<0.01	0.0085 (J)
10/26/2016				0.0052 (J)	0.002 (J)	<0.01			
1/3/2017		<0.01							
1/4/2017			0.0016 (J)	0.0062 (J)	<0.01				0.0048 (J)
1/5/2017									
1/6/2017	0.0324					<0.01	0.0038 (J)	<0.01	
4/3/2017		<0.01						<0.01	
4/4/2017			0.0052 (J)				0.0064 (J)		
4/5/2017					<0.01				0.0068 (J)
4/6/2017	0.0188 (J)			0.0195		<0.01			
7/10/2017					<0.01				
7/11/2017		<0.01		<0.01			0.0044 (J)	<0.01	
7/12/2017			0.0024 (J)			<0.01			0.0048 (J)
7/13/2017	0.0118								
10/2/2017		<0.01					0.004 (J)	<0.01	
10/3/2017			<0.01	0.0079 (J)					0.0051 (J)
10/4/2017	0.0195				<0.01	<0.01			
1/9/2018	<0.05 (o)	<0.01					0.0019 (J)	0.0019 (J)	
1/10/2018			0.0018 (J)			<0.01			0.0018 (J)
1/11/2018				0.0054 (J)	<0.01				
7/9/2018		<0.01					0.0029 (J)		
7/10/2018			0.0026 (J)					0.0086 (J)	0.0045 (J)
7/11/2018	<0.05 (o)			0.0022 (J)	<0.01	<0.01			
1/16/2019	0.0071 (J)	<0.01	0.0018 (J)			<0.01	0.0016 (J)		
1/17/2019				<0.01	<0.01			0.0029 (J)	0.0031 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/25/2019	<0.05 (o)	<0.01							
3/26/2019			0.0023 (J)			<0.01	0.0022 (J)	0.0074 (J)	0.0033 (J)
3/27/2019				0.01 (J)	<0.01				
8/26/2019	<0.05 (o)	<0.01							
8/27/2019			0.0016 (J)	<0.01	<0.01	<0.01	0.0035 (J)	0.0092 (J)	
8/28/2019									0.004 (J)
10/7/2019		<0.01							
10/8/2019	0.0072 (J)			<0.01		<0.01	0.0026 (J)	0.014	0.0023 (J)
10/9/2019			0.0024 (J)		<0.01				
4/6/2020	0.0078 (J)	<0.01							
4/7/2020			0.0013 (J)	0.0021 (J)	<0.01		0.005 (J)	0.0029 (J)	<0.01
4/8/2020						<0.01			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.01					<0.01	<0.01	<0.01	<0.01
11/21/2000	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	<0.01				<0.01	0.014 (o)	<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	0.015 (o)	<0.01	<0.01
11/1/2001	<0.01	<0.01				<0.01	0.012 (o)	<0.01	<0.01
4/25/2002	<0.01	<0.01				<0.01	0.01	<0.01	<0.01
11/20/2002	<0.01	<0.01				<0.01	0.026 (o)	0.0064	0.008
6/6/2003	<0.01	<0.01				<0.01	0.022 (o)	0.011	0.0066
12/12/2003	<0.01	<0.01				<0.01	0.028 (o)	<0.01	0.0056
5/26/2004	<0.01	0.005				<0.01	0.012 (o)	0.007	0.0084
12/7/2004	<0.01	<0.01				<0.01	0.0073 (o)	<0.01	<0.01
6/21/2005	<0.01	<0.01				0.0062	0.0087	0.0063	0.0062
12/12/2005	<0.01	<0.01				<0.01	0.013 (o)	<0.01	<0.01
6/27/2006	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
12/4/2006	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
6/23/2007	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
12/11/2007	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
6/23/2008						<0.01			
6/24/2008	<0.01	<0.01					<0.01	<0.01	<0.01
12/4/2008		<0.01				<0.01			
12/5/2008	<0.01						<0.01	<0.01	<0.01
7/7/2009							<0.01	<0.01	<0.01
7/8/2009	<0.01	<0.01				<0.01			
12/20/2009		<0.01							
12/21/2009	<0.01					<0.01	<0.01	<0.01	<0.01
6/20/2010		<0.01				<0.01		<0.01	<0.01
6/21/2010	<0.01		<0.01	0.048	<0.01		<0.01		
1/6/2011		<0.01						<0.01	
1/7/2011	<0.01		<0.01	0.014	<0.01	<0.01	<0.01		<0.01
7/7/2011			<0.01					<0.01	<0.01
7/8/2011	<0.01		<0.01	0.018	<0.01	<0.01	<0.01		
1/17/2012		<0.01						<0.01	
1/18/2012	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
7/9/2012		<0.01						<0.01	
7/10/2012	<0.01		<0.01	0.02	<0.01	<0.01	<0.01		<0.01
1/17/2013		<0.01						<0.01	
1/18/2013	<0.01		0.005	0.015	<0.01	<0.01	<0.01		<0.01
7/16/2013								<0.01	
7/17/2013	<0.01	<0.01	<0.01	0.037	<0.01	<0.01	<0.01		<0.01
1/13/2014		<0.01						<0.01	
1/14/2014	<0.01		<0.01	0.043	<0.01	<0.01	<0.01		<0.01
7/9/2014	<0.01	<0.01		0.023		<0.01	<0.01	<0.01	<0.01
7/10/2014			<0.01		<0.01				
1/12/2015			<0.01				<0.01		
1/13/2015		<0.01						<0.01	
1/14/2015	<0.01			0.022	<0.01	<0.01			<0.01
7/16/2015		<0.01					<0.01	<0.01	
7/17/2015				0.033		<0.01			<0.01
7/18/2015	<0.01		<0.01		<0.01				
1/17/2016		<0.01	<0.01	0.021					
1/18/2016	<0.01				<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
7/27/2016		0.002 (J)						<0.01	
7/28/2016			<0.01	0.0341		<0.01			<0.01
7/29/2016	0.0011 (J)				0.0022 (J)		0.0036 (J)		
8/30/2016								<0.01	<0.01
8/31/2016		<0.01			0.0014 (J)	<0.01			
9/1/2016	0.0012 (J)		<0.01	0.0297			0.0067 (J)		
10/25/2016			0.0014 (J)	0.0095 (J)					
10/26/2016	0.0013 (J)	0.0035 (J)			0.001 (J)		0.0042 (J)	<0.01	<0.01
10/27/2016						<0.01			
1/3/2017								<0.01	
1/4/2017			0.0014 (J)	0.022	<0.01				
1/5/2017	0.0012 (J)	<0.01							0.0014 (J)
1/6/2017						<0.01	0.0042 (J)		
4/4/2017		<0.01	<0.01	0.0236			0.0043 (J)		
4/5/2017	<0.01								
4/6/2017					<0.01	<0.01		<0.01	<0.01
7/11/2017			<0.01		<0.01				
7/12/2017						<0.01	0.0033 (J)	<0.01	<0.01
7/13/2017	0.0018 (J)	<0.01		0.013					
10/2/2017			<0.01						
10/3/2017		<0.01		0.01 (J)				<0.01	<0.01
10/4/2017	0.0042 (J)				0.0023 (J)	<0.01	0.0038 (J)		
1/9/2018				0.0162					<0.01
1/10/2018		<0.01	<0.01					<0.01	
1/11/2018	<0.01				<0.01	<0.01	0.0029 (J)		
7/9/2018			<0.01						
7/10/2018		<0.01		0.016				0.0018 (J)	0.0016 (J)
7/11/2018	0.0016 (J)				<0.01	<0.01	0.0015 (J)		
1/16/2019	<0.01						<0.01	<0.01	<0.01
1/17/2019				0.011					
1/18/2019					<0.01	<0.01			
1/21/2019		<0.01	0.0014 (J)						
3/25/2019			<0.01				<0.01		
3/26/2019	<0.01			0.022				<0.01	0.05 (J)
3/27/2019					<0.01	<0.01			
7/30/2019		<0.01							
8/27/2019		<0.01			<0.01		<0.01		0.0033 (J)
8/28/2019	<0.01		0.0014 (J)	0.019		<0.01		0.0033 (J)	
10/8/2019				0.019					
10/9/2019	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	0.0073 (J)	<0.01
4/7/2020	<0.01	<0.01		0.012	<0.01		0.0025 (J)	<0.01	<0.01
4/8/2020	<0.01	<0.01	0.0013 (J)			<0.01			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		140	87						
8/31/2016				64	1100	43			
9/1/2016	73						730	120	430
10/24/2016		160							
10/25/2016	26		83				420	100	360
10/26/2016				56	900	29			
1/3/2017		140							
1/4/2017			99	65	880				360
1/5/2017						32	430	140	
1/6/2017	23								
4/3/2017		140						150	
4/4/2017			110				600		
4/5/2017					990				440
4/6/2017	25			110		49			
7/10/2017					480				
7/11/2017		130		49			400	110	
7/12/2017			100			16			490
7/13/2017	65								
10/2/2017		150					470	56	
10/3/2017			63	140					780
10/4/2017	13				760	33			
1/9/2018	45	120					440	84	
1/10/2018			86			22			470
1/11/2018				270	780				
7/9/2018		123					369		
7/10/2018			77.7					43	787
7/11/2018	37.7			211	598	17.8			
1/16/2019	24.5	129	71.2			20.2	291		
1/17/2019				50.3	454			45.2	780
3/25/2019	14.7	152							
3/26/2019			73.8			33.6	192	54	87.9
3/27/2019				76.8	579				
10/7/2019		156							
10/8/2019	32.8			310		22	428	45.8	872
10/9/2019			76.3		392				
4/6/2020	20.3	123							
4/7/2020			83	446	297		456	26.9	844
4/8/2020						30.7			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								100	120
8/31/2016		21			700	84			
9/1/2016	310		180	36			210		
10/25/2016			79	16					
10/26/2016	280	100			850		230	130	120
10/27/2016						76			
1/3/2017								120	
1/4/2017			170	45	680				
1/5/2017	310	22							130
1/6/2017						66	220		
4/4/2017		29	300	46			230		
4/5/2017	460								
4/6/2017					220	79		140	150
7/11/2017			400		210				
7/12/2017						75	210	140	140
7/13/2017	490	20		33					
10/2/2017			390						
10/3/2017		20		34				130	140
10/4/2017	1100				730	78	290		
1/9/2018				29					140
1/10/2018		9.5	99					110	
1/11/2018	810				180	110	210		
7/9/2018			99.2						
7/10/2018		8.5		33.2				48.1	128
7/11/2018	902				381	87.4	177		
1/16/2019	422						244	184	402
1/17/2019				24.1					
1/18/2019					107	56.9			
1/21/2019		10.2	35.5						
3/25/2019			95.6				245		
3/26/2019	439			83.9				222	319
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	38.5	90.8	255
4/7/2020				33.2	333		221	180	180
4/8/2020	239	12.9	428			34.2			

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.001		<0.001	<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	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<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	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<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	<0.001	<0.001	<0.001
12/12/2003	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/26/2004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/7/2004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/21/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/12/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/4/2006		<0.001					<0.001		<0.001
6/27/2006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2006		<0.001					<0.001		<0.001
12/4/2006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/15/2007		<0.001					<0.001		<0.001
6/23/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016		<0.001	<0.001						
8/31/2016				<0.001	<0.001	<0.001			
9/1/2016	0.0005 (J)						<0.001	<0.001	<0.001
10/24/2016		<0.001							
10/25/2016	<0.001		<0.001				<0.001	<0.001	<0.001
10/26/2016				<0.001	0.0003 (J)	<0.001			
1/3/2017		<0.001							
1/4/2017			<0.001	<0.001	<0.001				<0.001
1/5/2017						<0.001	<0.001	<0.001	
1/6/2017	<0.001								
4/3/2017		<0.001						<0.001	
4/4/2017			5E-05 (J)				7E-05 (J)		
4/5/2017					0.0002 (J)				6E-05 (J)
4/6/2017	<0.001			6E-05 (J)		<0.001			
7/10/2017					0.0002 (J)				
7/11/2017		5E-05 (J)		<0.001			6E-05 (J)	<0.001	
7/12/2017			<0.001			<0.001			<0.001
7/13/2017	<0.001								
10/2/2017		6E-05 (J)					<0.001	<0.001	
10/3/2017			<0.001	7E-05 (J)					<0.001
10/4/2017	<0.001				0.0002 (J)	<0.001			
1/9/2018	<0.001	<0.001					<0.001	<0.001	
1/10/2018			<0.001			<0.001			5E-05 (J)
1/11/2018				0.0001 (J)	0.0002 (J)				
7/9/2018		<0.001					<0.001		
7/10/2018			<0.001					<0.001	<0.001
7/11/2018	<0.001			<0.001	<0.001	<0.001			
8/26/2019	<0.001	<0.001							
8/27/2019			<0.001	<0.001	0.00011 (J)	<0.001	<0.001	<0.001	
8/28/2019									<0.001
10/7/2019		6.2E-05 (J)							
10/8/2019	<0.001			9.8E-05 (J)		<0.001	<0.001	<0.001	<0.001
10/9/2019			5.4E-05 (J)		0.00014 (J)				
4/6/2020	<0.001	<0.001							

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020			5.4E-05 (J)	0.00019 (J)	0.00013 (J)		<0.001	<0.001	<0.001
4/8/2020						<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
9/29/2000	<0.001					<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
12/12/2003	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
5/26/2004	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
12/7/2004	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
6/21/2005	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
12/12/2005	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
6/27/2006	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
12/4/2006	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
6/23/2007	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
8/30/2016								<0.001	<0.001
8/31/2016		<0.001			<0.001	<0.001			
9/1/2016	<0.001		<0.001	<0.001			<0.001		
10/25/2016			<0.001	<0.001					
10/26/2016	<0.001	<0.001			<0.001		<0.001	<0.001	<0.001
10/27/2016						<0.001			
1/3/2017								<0.001	
1/4/2017			<0.001	<0.001	<0.001				
1/5/2017	<0.001	<0.001							<0.001
1/6/2017						<0.001	<0.001		
4/4/2017		<0.001	<0.001	5E-05 (J)			7E-05 (J)		
4/5/2017	0.0001 (J)								
4/6/2017					<0.001	<0.001		<0.001	<0.001
7/11/2017			<0.001		<0.001				
7/12/2017						<0.001	<0.001	<0.001	<0.001
7/13/2017	<0.001	<0.001		<0.001					
10/2/2017			<0.001						
10/3/2017		<0.001		<0.001				<0.001	<0.001
10/4/2017	0.0001 (J)				0.0001 (J)	<0.001	<0.001		
1/9/2018				<0.001					<0.001
1/10/2018		<0.001	<0.001					<0.001	
1/11/2018	0.0001 (J)				6E-05 (J)	<0.001	7E-05 (J)		
7/9/2018			<0.001						
7/10/2018		<0.001		<0.001				<0.001	<0.001
7/11/2018	<0.001				<0.001	<0.001	<0.001		
7/30/2019		0.00011 (J)							
8/27/2019		<0.001			8.6E-05 (J)		<0.001		<0.001
8/28/2019	6.6E-05 (J)		<0.001	<0.001		<0.001		5.7E-05 (J)	
10/8/2019				<0.001					
10/9/2019	7.6E-05 (J)	<0.001	<0.001		<0.001	<0.001	<0.001	0.00031 (J)	<0.001
4/7/2020				<0.001	6.5E-05 (J)		<0.001	<0.001	<0.001
4/8/2020	5.6E-05 (J)	<0.001	<0.001			<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWA-8 (bg)	GWC-1	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/30/2016		234	225						
8/31/2016				119	1560	77			
9/1/2016	3660						1170	539	878
10/24/2016		216							
10/25/2016	3560		230				633	449	585
10/26/2016				108	1520	<25			
1/3/2017		333							
1/4/2017			349	182	1430				783
1/5/2017						146	781	565	
1/6/2017	3490								
4/3/2017		288						632	
4/4/2017			356				916		
4/5/2017					1200				722
4/6/2017	3170			248		23 (J)			
7/10/2017					1100				
7/11/2017		188		88			675	569	
7/12/2017			357			39			962
7/13/2017	2280								
10/2/2017		210					689	559	
10/3/2017			192	248					1240
10/4/2017	3350				986	38			
1/9/2018	2640	118					653	520	
1/10/2018			277			<25			935
1/11/2018				681	1020				
7/9/2018		235					659		
7/10/2018			349					524	1040
7/11/2018	2200			440	888	63			
1/16/2019	2100	219	341			44	656		
1/17/2019				118	765			518 (D)	1320
3/25/2019	2100	240							
3/26/2019			317			72	496	541	1380
3/27/2019				138	673				
10/7/2019		275							
10/8/2019	1840			613		51	841	526	1500
10/9/2019			338		647				
4/6/2020	1670	214							
4/7/2020			195	780	464		843	428	1500
4/8/2020						65			

Time Series

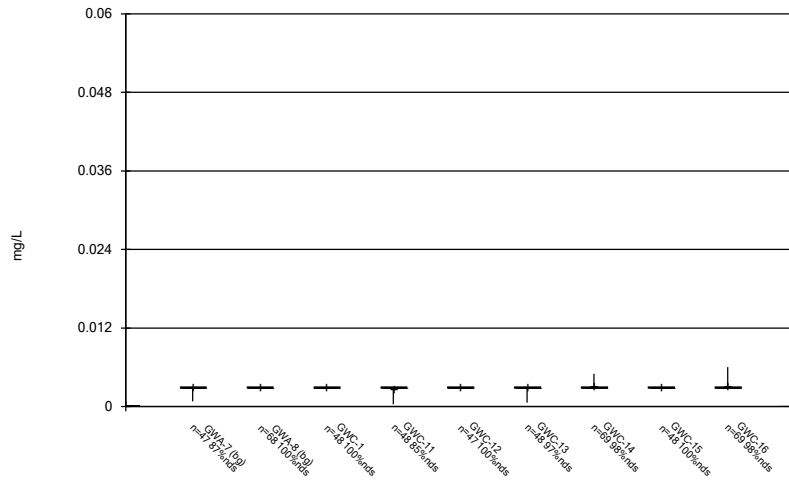
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/25/2020 9:33 AM View: Descriptive

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWB-4R	GWB-5R	GWB-6R
8/30/2016								224	365
8/31/2016		39			1570	173			
9/1/2016	1270		470	184			1080		
10/25/2016			289	<25					
10/26/2016	1320	135			1840		1050	297	373
10/27/2016						221			
1/3/2017								366	
1/4/2017			639	242	1560				
1/5/2017	1770	99							543
1/6/2017						259	1060		
4/4/2017		54	660	187			994		
4/5/2017	1600								
4/6/2017					368	169		279	434
7/11/2017			836		383				
7/12/2017						163	1070	308	454
7/13/2017	1940	50		86					
10/2/2017			698						
10/3/2017		18 (J)		66				288	389
10/4/2017	2370				1500	168	1100		
1/9/2018				167					415
1/10/2018		<25	322					493	
1/11/2018	2350				438	190	838		
7/9/2018			461						
7/10/2018		49		180				1730 (o)	453
7/11/2018	2260				876	165	799		
1/16/2019	1540						530	382	1320
1/17/2019				178					
1/18/2019					154	118			
1/21/2019		39	307						
3/25/2019			449				479		
3/26/2019	1220			292				1040	1250
3/27/2019					158	104			
7/30/2019		70							
10/8/2019				278					
10/9/2019	1100	46	434		211	128	502	2010	903
4/7/2020				106	819		482	483	775
4/8/2020	881	38	986			80			

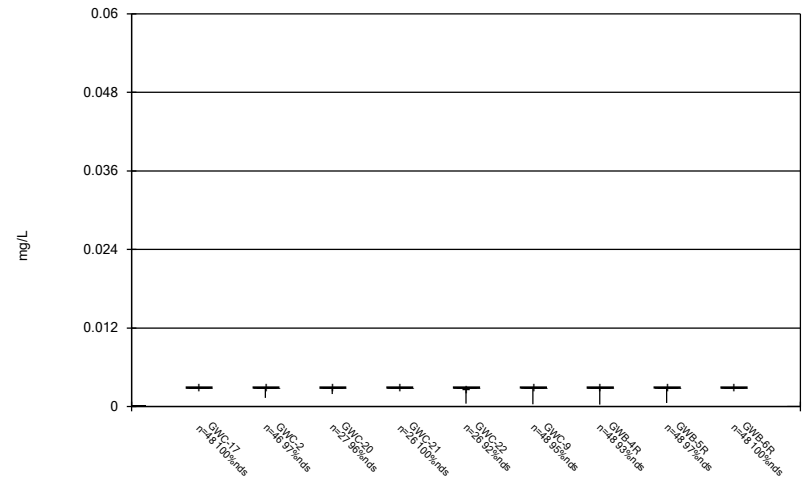
FIGURE B.

Box & Whiskers Plot



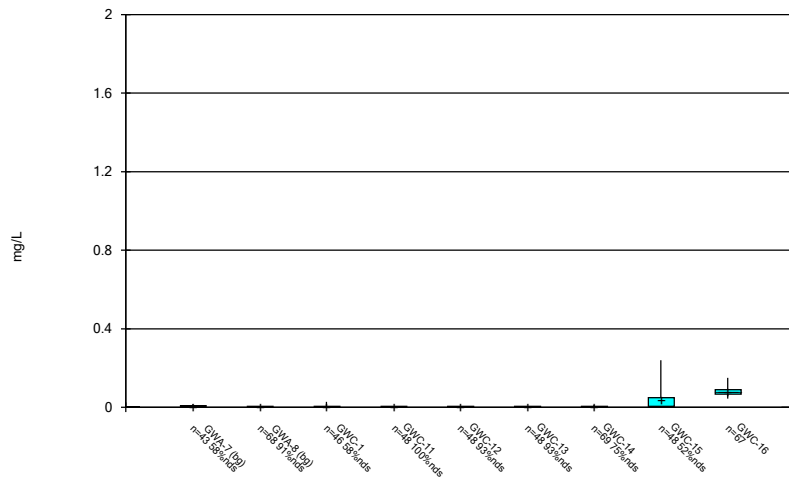
Constituent: Antimony Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



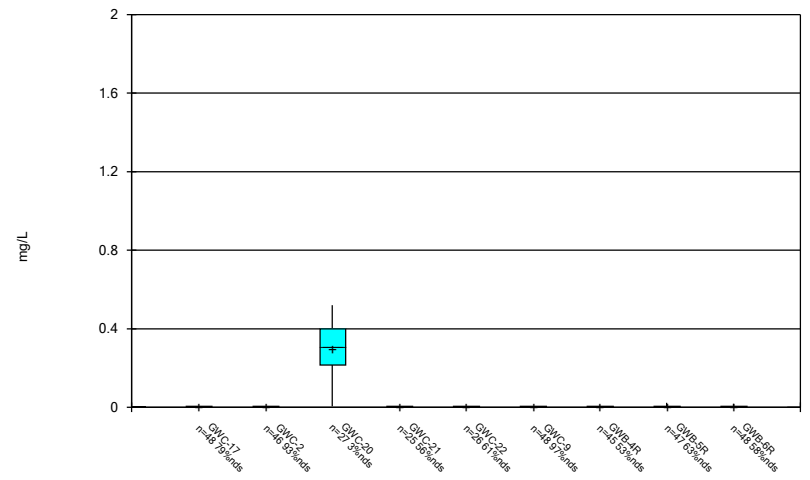
Constituent: Antimony Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



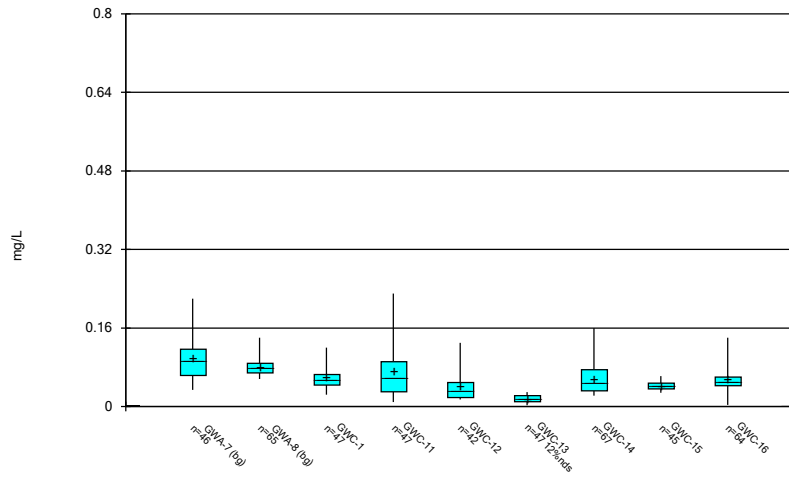
Constituent: Arsenic Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



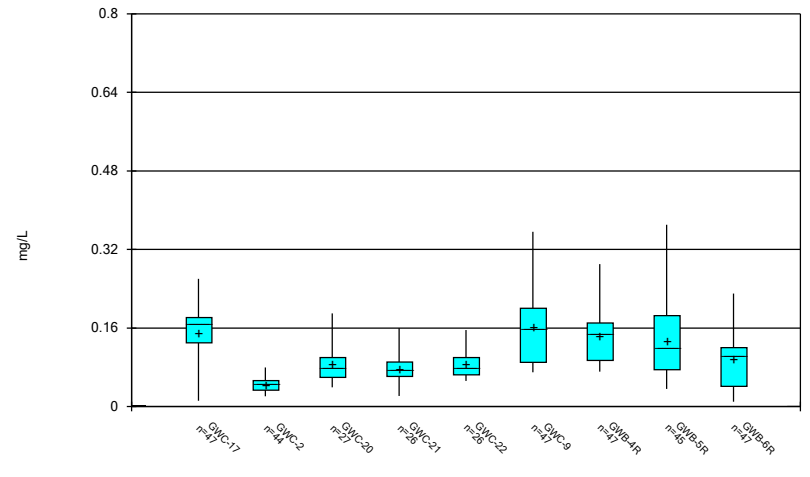
Constituent: Arsenic Analysis Run 5/25/2020 9:33 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



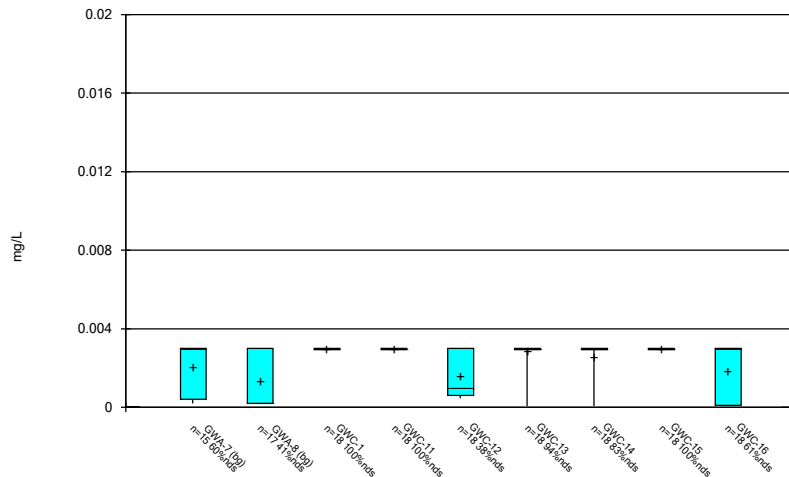
Constituent: Barium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



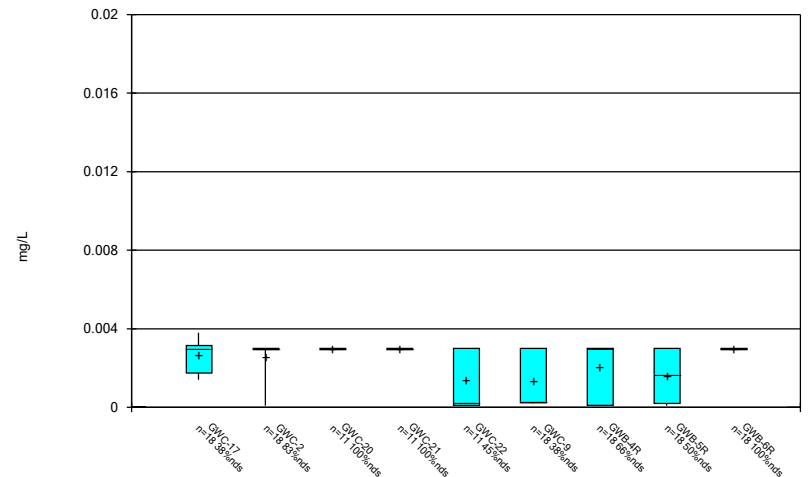
Constituent: Barium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



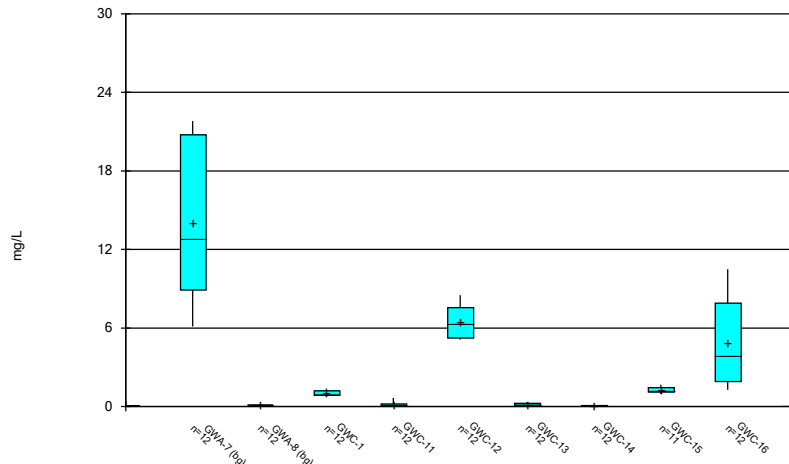
Constituent: Beryllium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



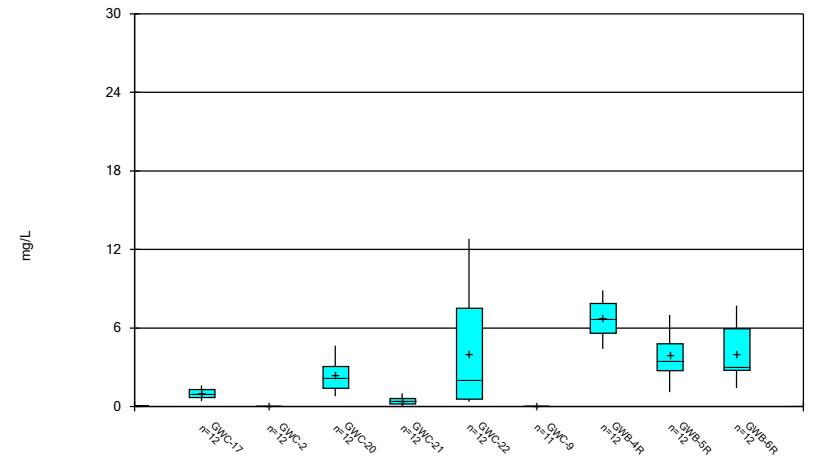
Constituent: Beryllium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



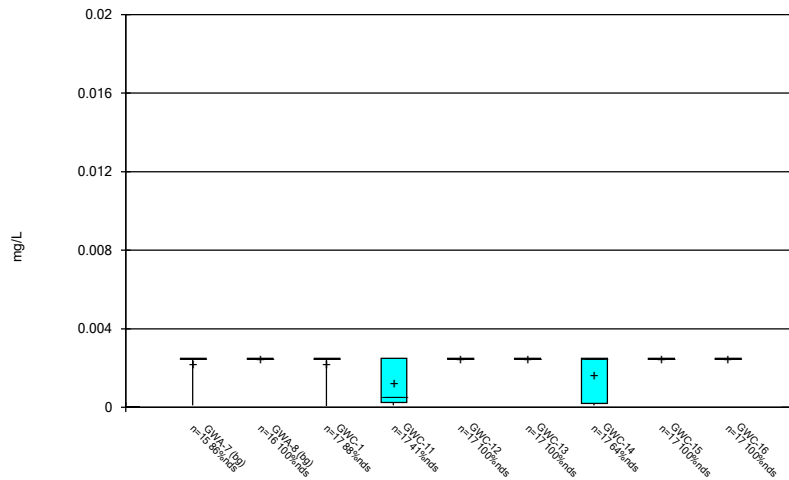
Constituent: Boron Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



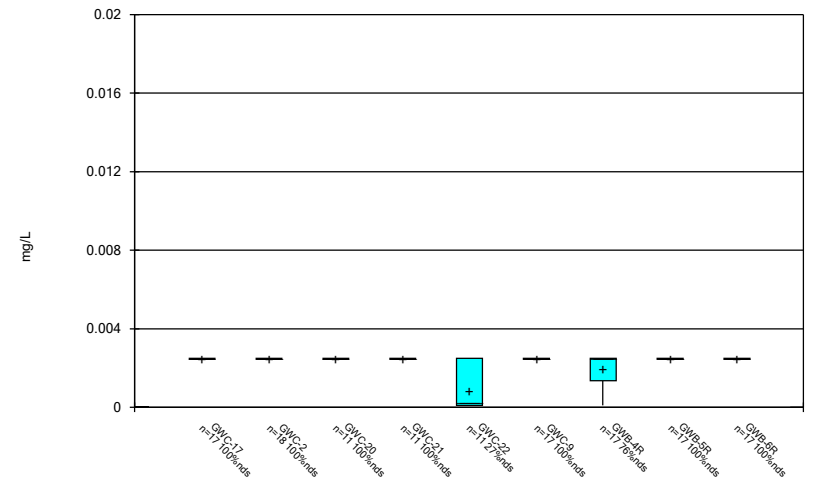
Constituent: Boron Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



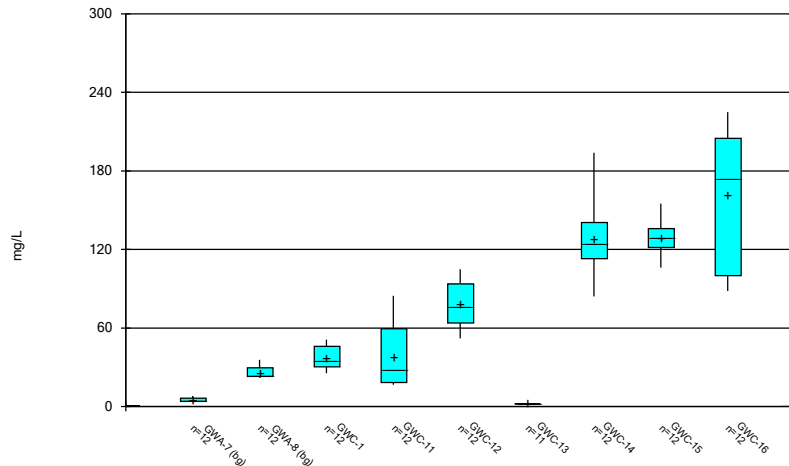
Constituent: Cadmium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



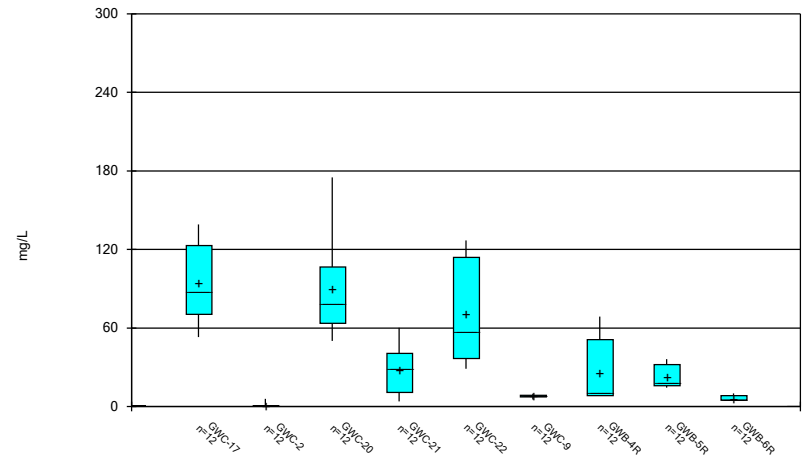
Constituent: Cadmium Analysis Run 5/25/2020 9:33 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



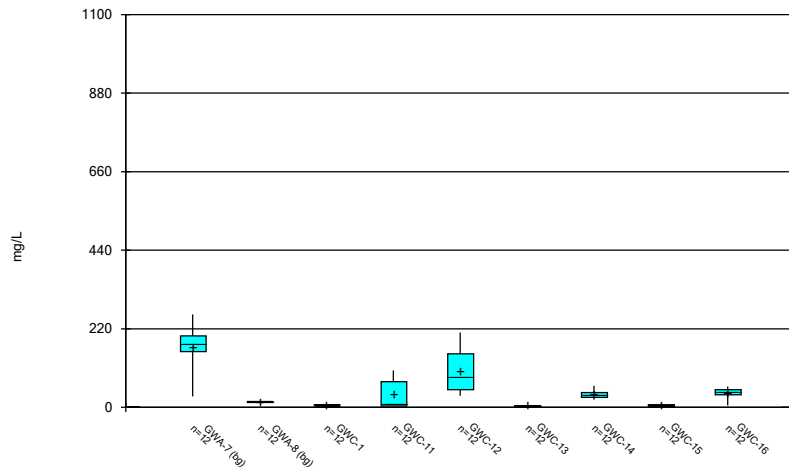
Constituent: Calcium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



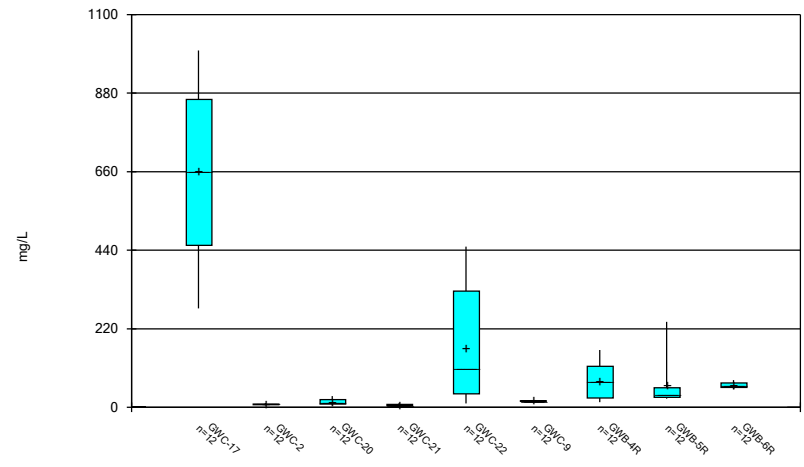
Constituent: Calcium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



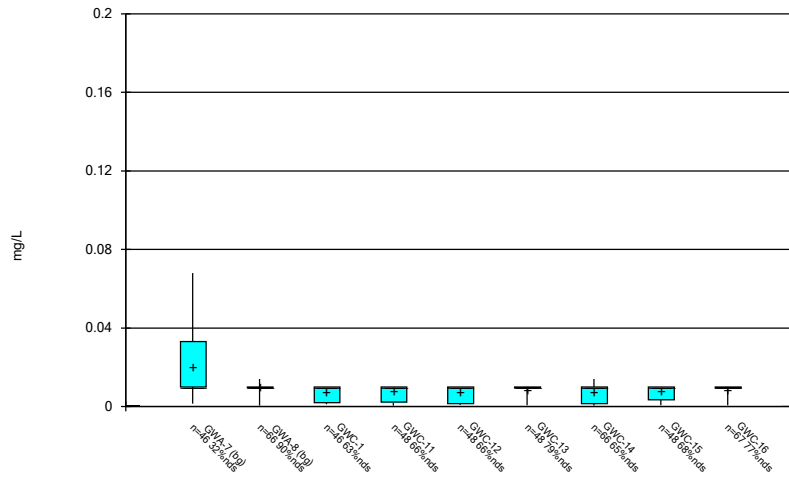
Constituent: Chloride Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



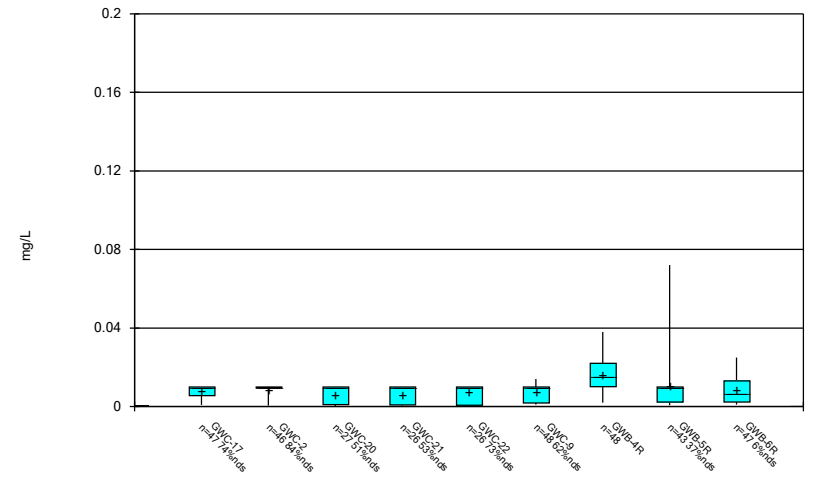
Constituent: Chloride Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



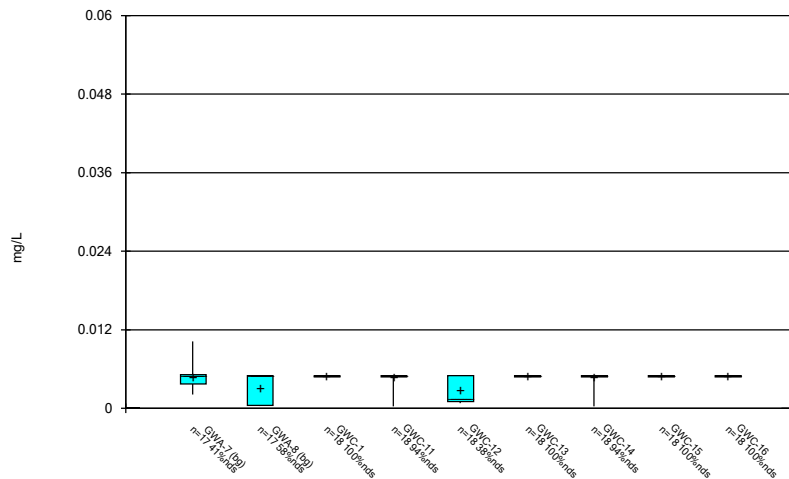
Constituent: Chromium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



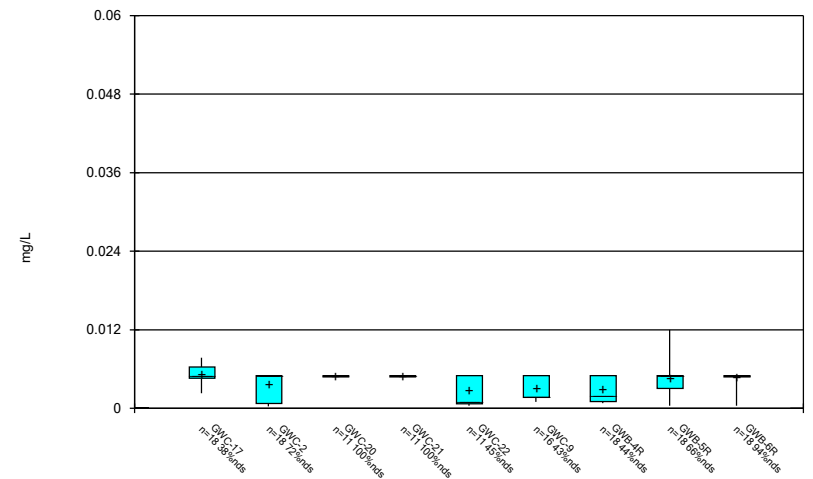
Constituent: Chromium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



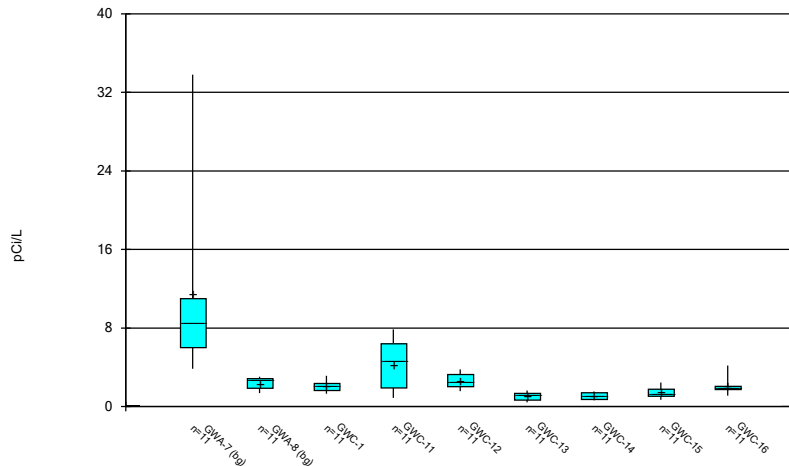
Constituent: Cobalt Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



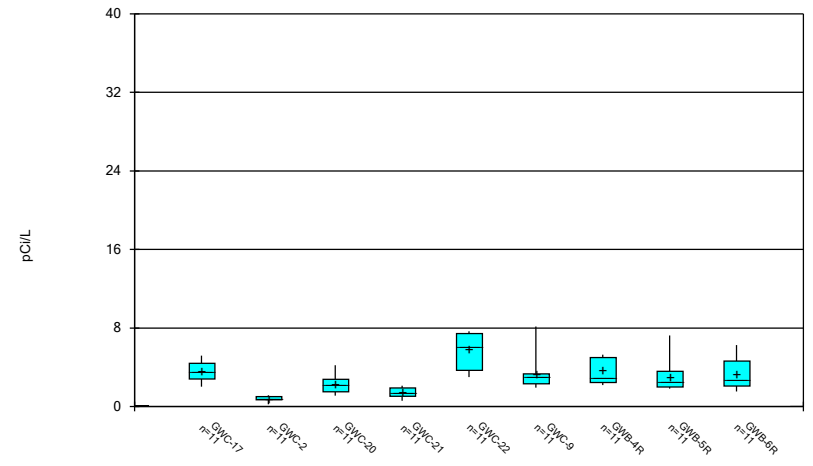
Constituent: Cobalt Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



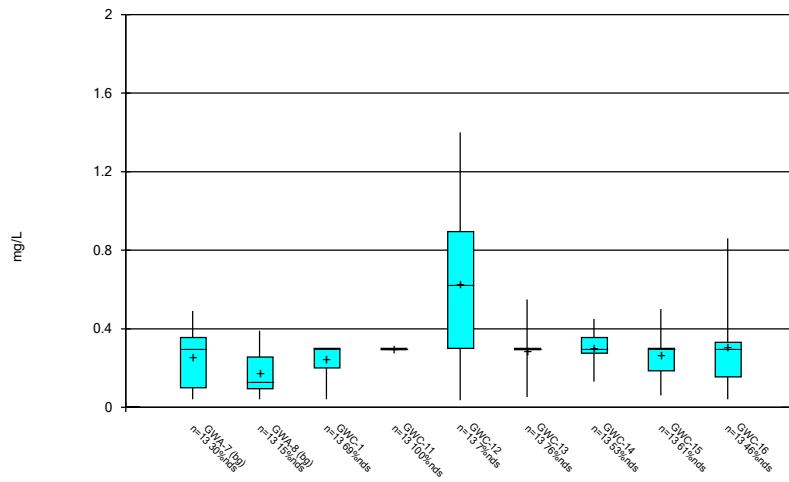
Constituent: Combined Radium 226 + 228 Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



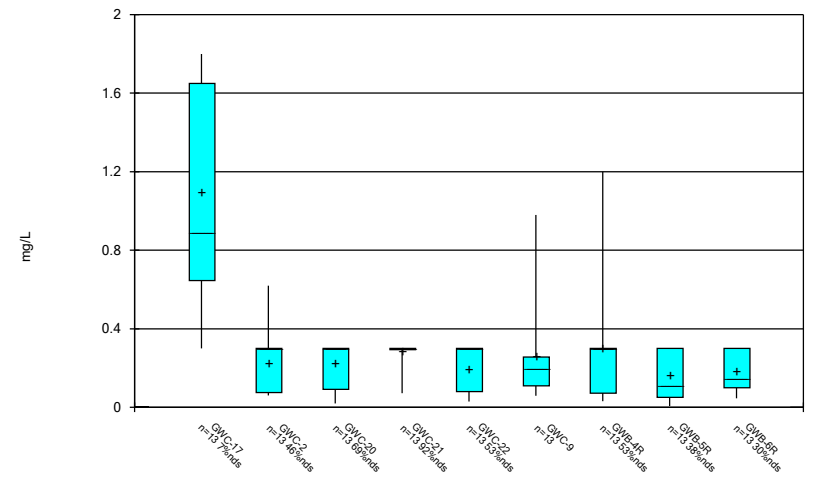
Constituent: Combined Radium 226 + 228 Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



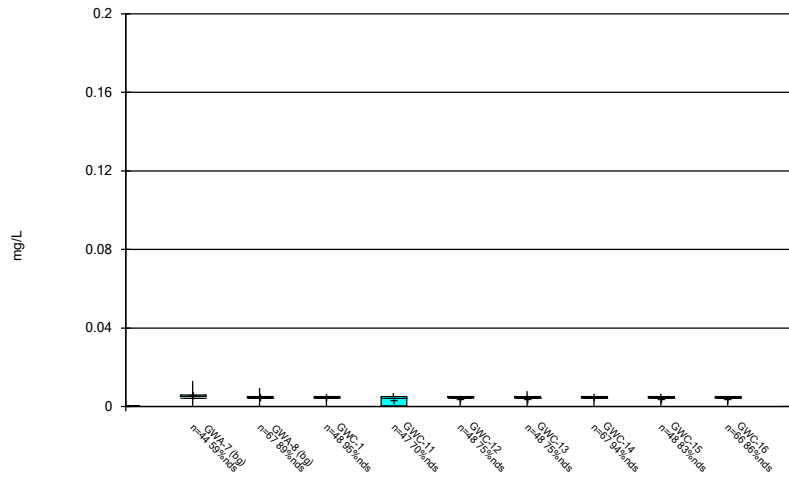
Constituent: Fluoride Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



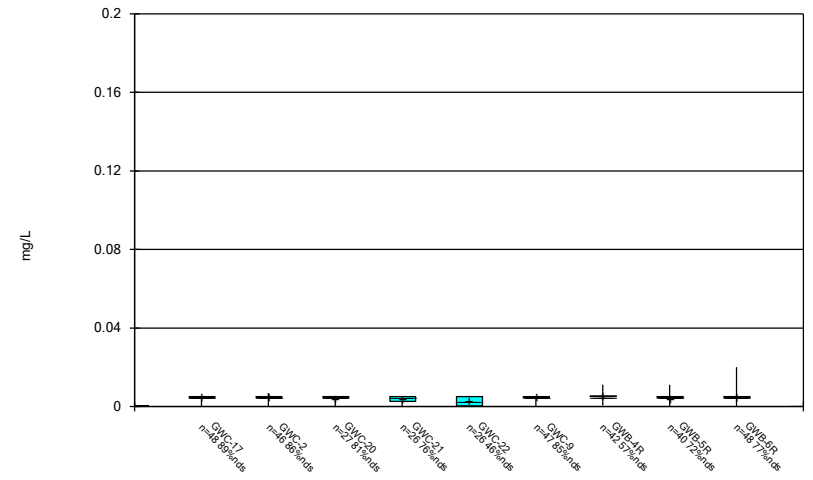
Constituent: Fluoride Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



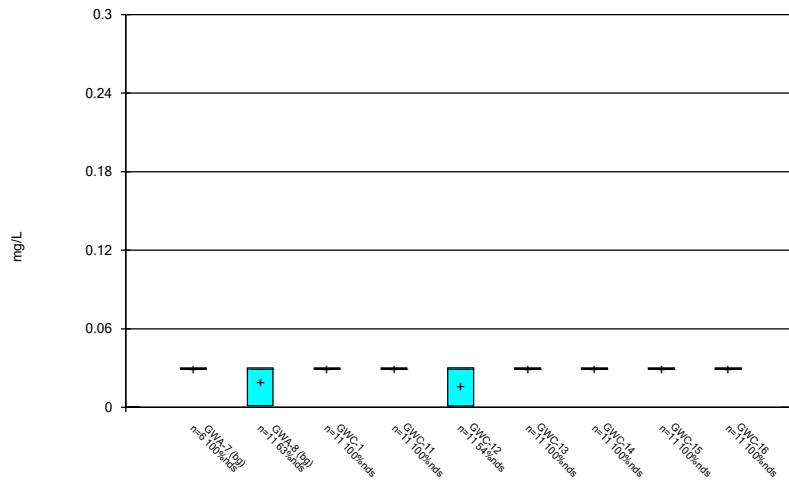
Constituent: Lead Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



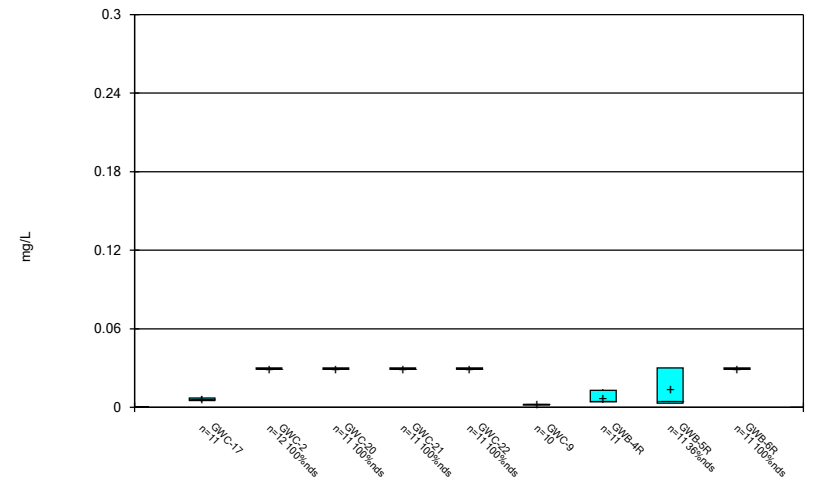
Constituent: Lead Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



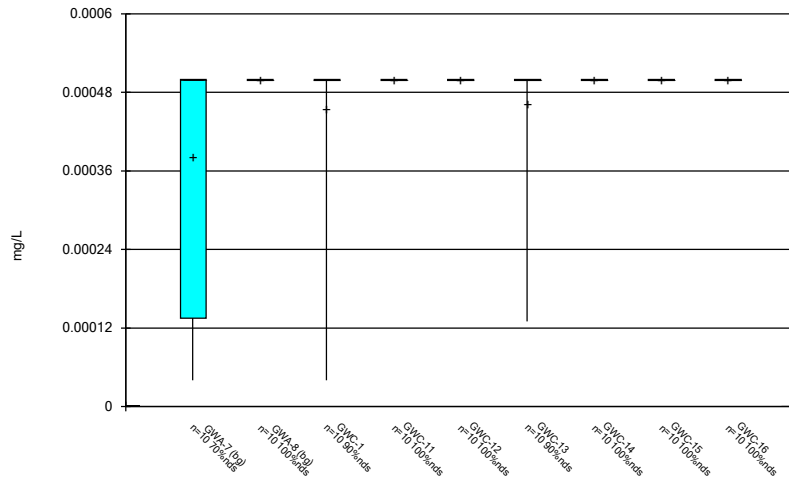
Constituent: Lithium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



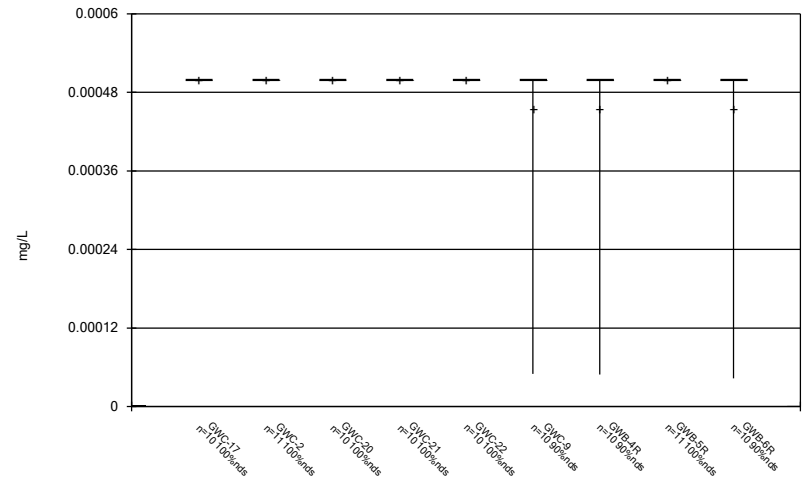
Constituent: Lithium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



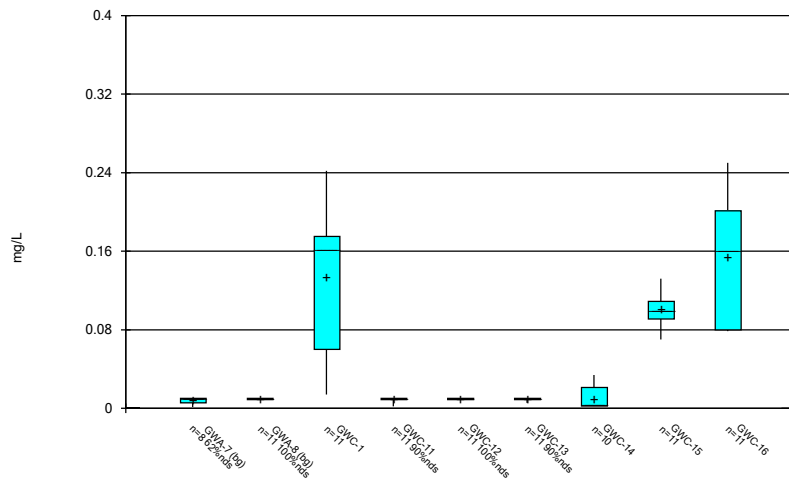
Constituent: Mercury Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



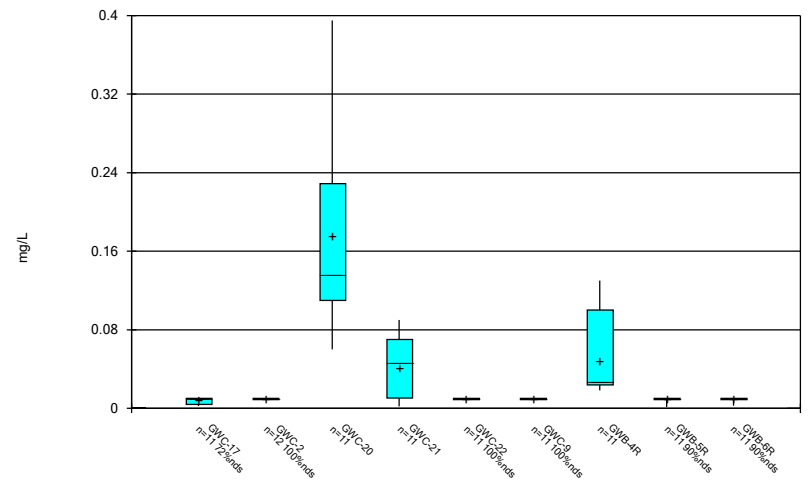
Constituent: Mercury Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



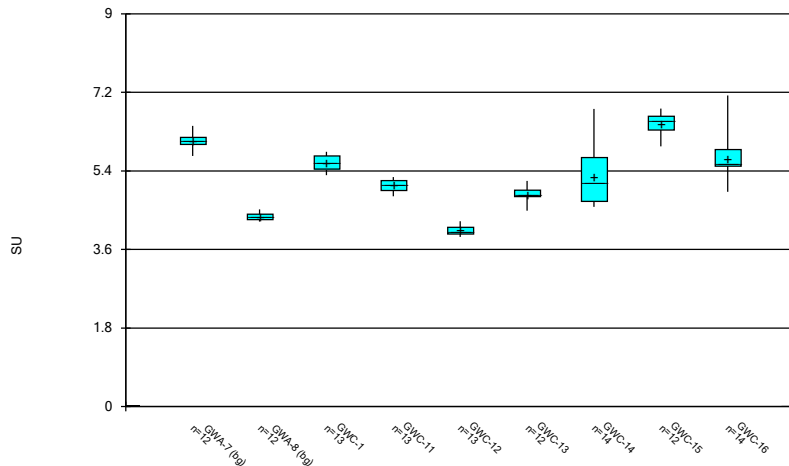
Constituent: Molybdenum Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



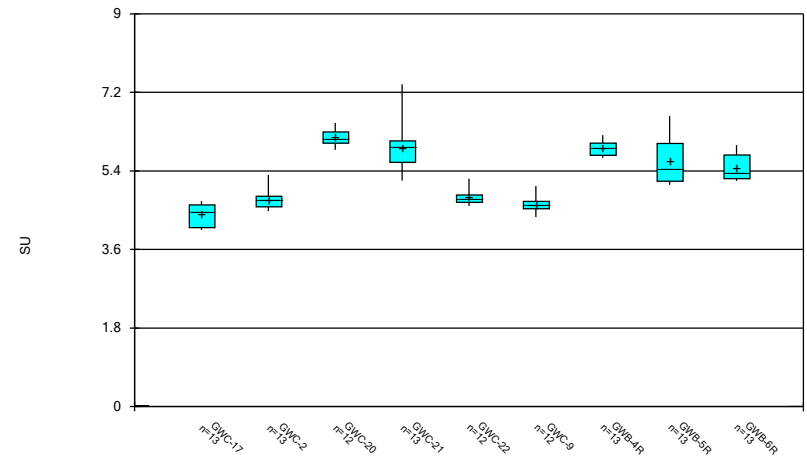
Constituent: Molybdenum Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



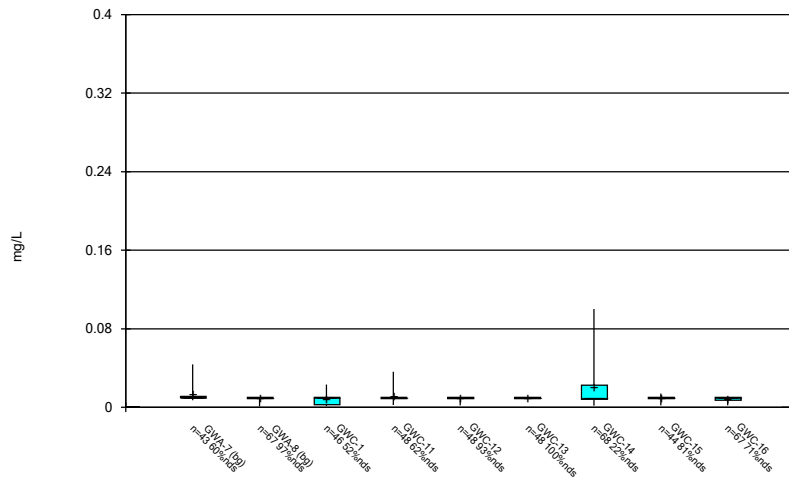
Constituent: pH Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



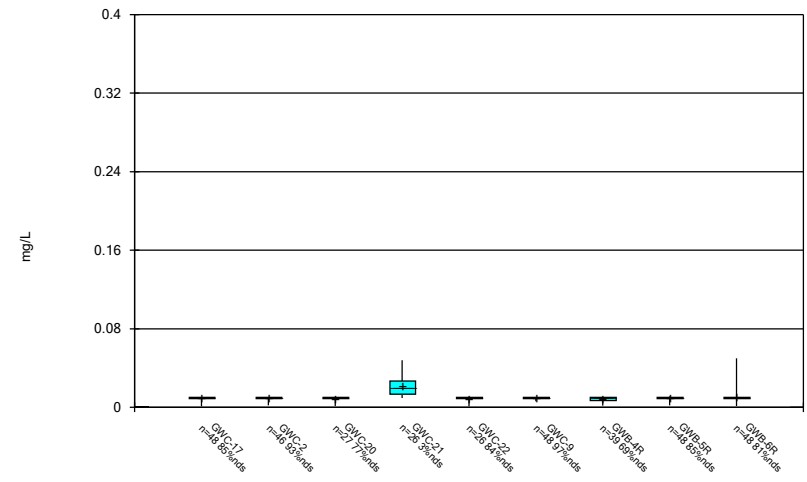
Constituent: pH Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



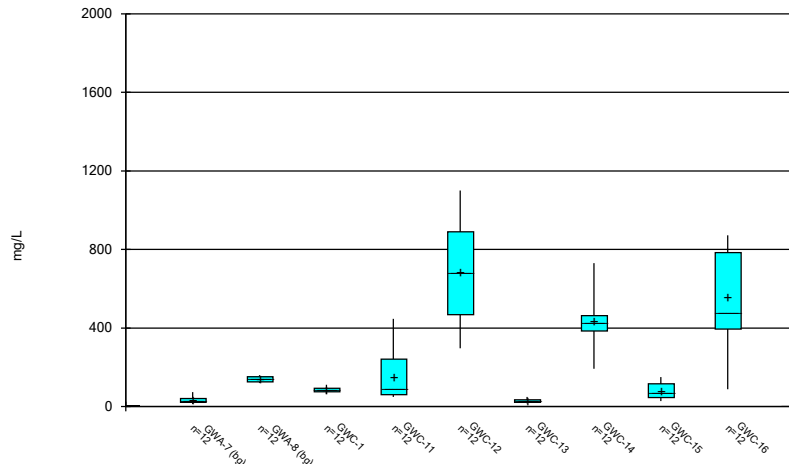
Constituent: Selenium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



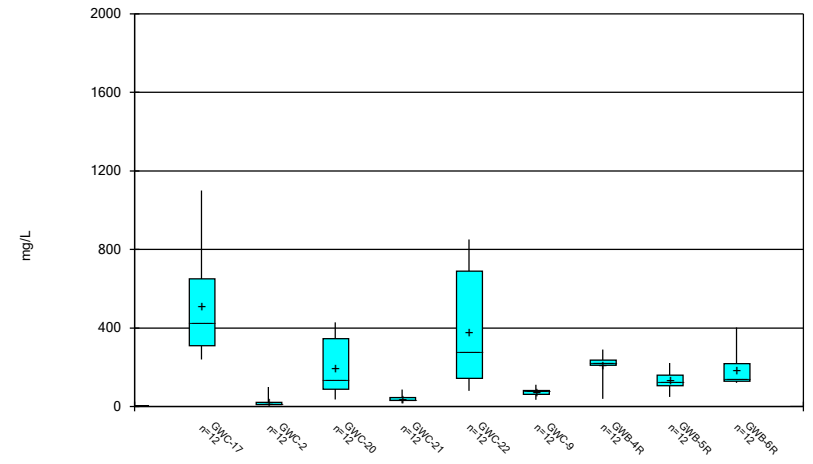
Constituent: Selenium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



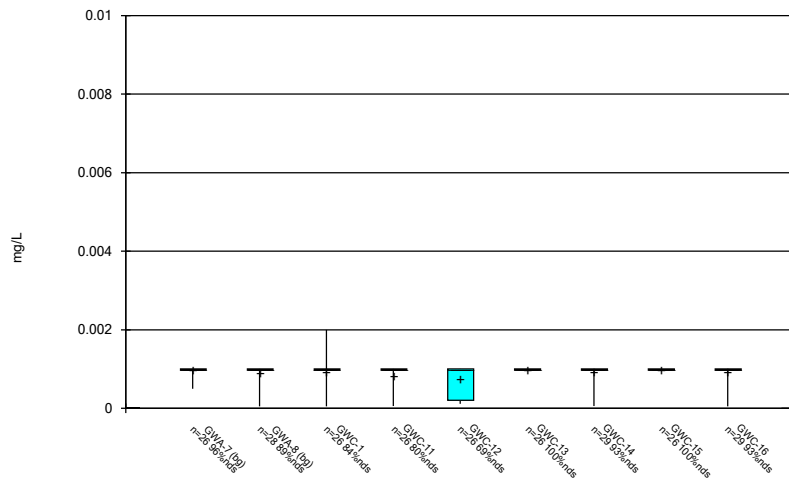
Constituent: Sulfate Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



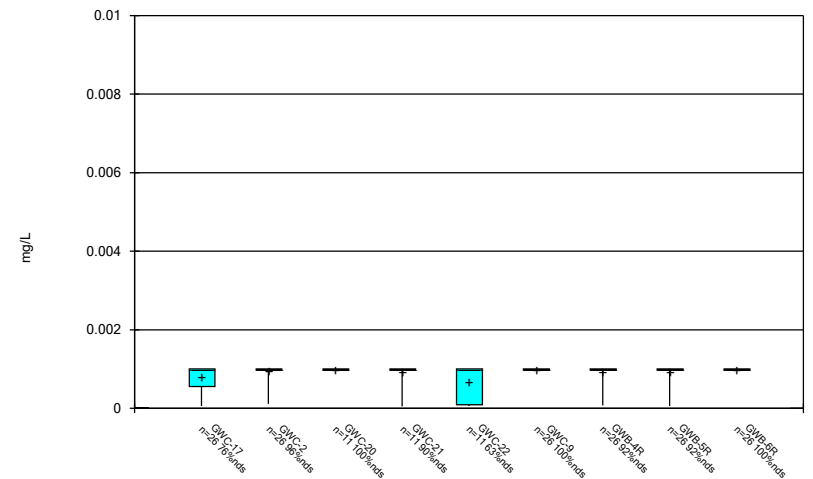
Constituent: Sulfate Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



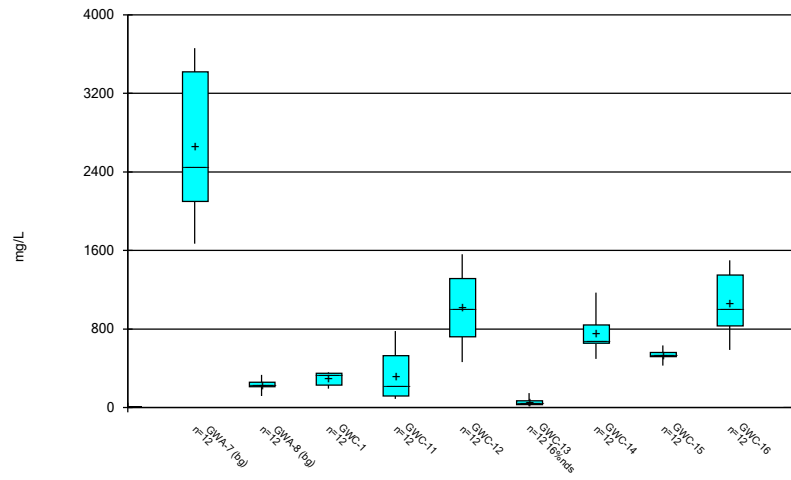
Constituent: Thallium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



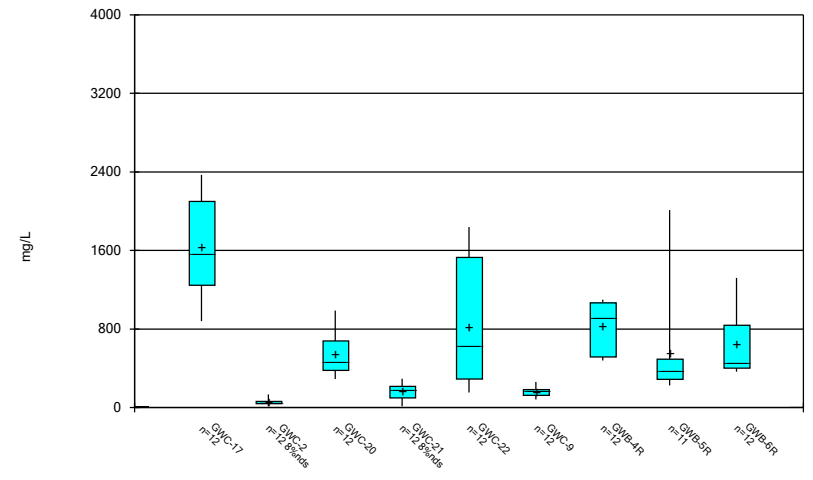
Constituent: Thallium Analysis Run 5/25/2020 9:34 AM View: Descriptive
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/25/2020 9:34 AM View: Descriptive
Grumman Road Landfill Client: Southern Company Data: Grumman Road

FIGURE C.

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:33 PM

GWC-12 Antimony (mg/L) GWA-7 Arsenic (mg/L) GWC-1 Arsenic (mg/L) GWA-7 Barium (mg/L) GWC-16 Barium (mg/L) GWC-2 Barium (mg/L) GWA-7 Beryllium (mg/L) GWC-15 Boron (mg/L) GWC-9 Boron (mg/L) GWA-7 Cadmium (mg/L)

Date	GWC-12 Antimony (mg/L)	GWA-7 Arsenic (mg/L)	GWC-1 Arsenic (mg/L)	GWA-7 Barium (mg/L)	GWC-16 Barium (mg/L)	GWC-2 Barium (mg/L)	GWA-7 Beryllium (mg/L)	GWC-15 Boron (mg/L)	GWC-9 Boron (mg/L)	GWA-7 Cadmium (mg/L)
1/17/2016			0.024 (o)							
1/18/2016	<0.003 (o)									
8/31/2016								0.096 (J,o)		
9/1/2016				0.415 (o)				9.01 (o)		
10/26/2016						0.113 (o)				
10/3/2017					0.135 (o)					
10/4/2017										
1/9/2018										
7/9/2018										
7/10/2018					0.16 (o)					
7/11/2018		<0.025 (o)					<0.015 (o)			
1/16/2019		<0.025 (o)								
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
8/26/2019							<0.015 (o)		<0.012 (o)	
10/8/2019							<0.015 (o)		<0.012 (o)	
4/6/2020		<0.025 (o)								

GWC-13 Calcium (mg/L) GWA-7 Chromium (mg/L) GWA-7 Cobalt (mg/L) GWC-9 Cobalt (mg/L) GWA-7 Lead (mg/L) GWC-11 Lead (mg/L) GWB-4R Lead (mg/L) GWA-7 Lithium (mg/L) GWC-9 Lithium (mg/L) GWA-7 Molybdenum (mg/L)

Date	GWC-13 Calcium (mg/L)	GWA-7 Chromium (mg/L)	GWA-7 Cobalt (mg/L)	GWC-9 Cobalt (mg/L)	GWA-7 Lead (mg/L)	GWC-11 Lead (mg/L)	GWB-4R Lead (mg/L)	GWA-7 Lithium (mg/L)	GWC-9 Lithium (mg/L)	GWA-7 Molybdenum (mg/L)
1/17/2016										
1/18/2016										
8/31/2016	2.77 (o)			0.0021 (J,o)					<0.05 (o)	
9/1/2016		0.119 (o)			0.0663 (o)		0.0166 (o)			
10/26/2016										
10/3/2017										
10/4/2017				0.0015 (J,o)						
1/9/2018								<0.15 (o)		
7/9/2018										
7/10/2018										
7/11/2018		<0.05 (o)				<0.005 (o)		<0.15 (o)		<0.05 (o)
1/16/2019					<0.025 (o)					
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
8/26/2019								<0.15 (o)		<0.05 (o)
10/8/2019								<0.15 (o)		<0.05 (o)
4/6/2020								<0.15 (o)		

FIGURE D.

Date Ranges

Date: 5/23/2020 2:33 PM

Grumman Road Landfill

Client: Southern Company

Data: Grumman Road

Arsenic (mg/L)

GWB-5R background:12/12/2005-7/10/2018

GWB-6R background:1/7/2011-7/10/2018

Barium (mg/L)

GWC-14 background:7/17/2013-7/10/2018

Chromium (mg/L)

GWB-4R background:1/7/2011-7/11/2018

GWB-6R background:7/7/2009-7/10/2018

Selenium (mg/L)

GWC-14 background:1/17/2012-7/9/2018

Vanadium (mg/L)

GWA-7 background:7/9/2012-7/11/2018

GWC-14 background:3/25/2009-7/9/2018

GWB-4R background:6/24/2008-7/11/2018

GWB-6R background:12/11/2007-7/10/2018

FIGURE E.

Intrawell Prediction Limits (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-1	0.0086	n/a	4/7/2020	0.027	41	n/a	n/a	65.85	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.09	n/a	4/7/2020	0.24	43	n/a	n/a	58.14	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWC-14	0.04252	n/a	4/7/2020	0.073	21	0.02967	0.00524	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-16	0.0944	n/a	4/7/2020	0.13	59	n/a	n/a	0	n/a	n/a	0.0005506	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-20	0.1775	n/a	4/8/2020	0.19	22	0.08198	0.03928	0	None	No	0.0004115	Param Intra 1 of 2

Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7	0.003	n/a	4/6/2020	0.003ND	42	n/a	n/a	85.71	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	4/7/2020	0.00066	43	n/a	n/a	90.7	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	4/8/2020	0.003ND	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.005	n/a	4/7/2020	0.003ND	64	n/a	n/a	98.44	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.006	n/a	4/7/2020	0.003ND	64	n/a	n/a	98.44	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	4/8/2020	0.0013	41	n/a	n/a	100	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	4/8/2020	0.003ND	22	n/a	n/a	95.45	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	4/7/2020	0.00049	21	n/a	n/a	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	4/8/2020	0.00033	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-4R	0.003	n/a	4/7/2020	0.003ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	4/7/2020	0.003ND	43	n/a	n/a	100	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-7	0.014	n/a	4/6/2020	0.005ND	39	n/a	n/a	61.54	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-8	0.005	n/a	4/6/2020	0.00045	63	n/a	n/a	92.06	n/a	n/a	0.000487	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0086	n/a	4/7/2020	0.027	41	n/a	n/a	65.85	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.005	n/a	4/7/2020	0.005ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0064	n/a	4/8/2020	0.005ND	43	n/a	n/a	95.35	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.011	n/a	4/7/2020	0.0018	64	n/a	n/a	81.25	n/a	n/a	0.0004732	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15	0.09	n/a	4/7/2020	0.24	43	n/a	n/a	58.14	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-16	0.1212	n/a	4/7/2020	0.091	62	0.07945	0.01932	0	None	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-17	0.005	n/a	4/8/2020	0.0013	43	n/a	n/a	86.05	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.005	n/a	4/8/2020	0.00094	41	n/a	n/a	97.56	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.5741	n/a	4/8/2020	0.33	22	0.2788	0.1215	4.545	None	No	0.0004115	Param Intra 1 of 2
Arsenic (mg/L)	GWC-21	0.005	n/a	4/7/2020	0.005ND	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.005	n/a	4/7/2020	0.00043	21	n/a	n/a	61.9	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.005	n/a	4/8/2020	0.00084	43	n/a	n/a	100	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0076	n/a	4/7/2020	0.0027	40	n/a	n/a	60	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.005	n/a	4/7/2020	0.0011	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.005	n/a	4/7/2020	0.005ND	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-7	0.2043	n/a	4/6/2020	0.072	41	0.1021	0.04574	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWA-8	0.14	n/a	4/6/2020	0.057	60	n/a	n/a	0	n/a	n/a	0.0005281	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-1	0.1141	n/a	4/7/2020	0.05	42	0.2379	0.04483	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-11	0.2074	n/a	4/7/2020	0.14	42	0.2407	0.09636	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-12	0.1228	n/a	4/7/2020	0.017	37	0.3382	0.07041	0	None	x^(1/3)	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-13	0.03175	n/a	4/8/2020	0.027	42	0.01478	0.00762	14.29	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-14	0.04252	n/a	4/7/2020	0.073	21	0.02967	0.00524	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-15	0.05948	n/a	4/7/2020	0.033	40	0.04178	0.00791	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-16	0.0944	n/a	4/7/2020	0.13	59	n/a	n/a	0	n/a	n/a	0.0005506	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-17	0.247	n/a	4/8/2020	0.055	42	0.02849	0.01459	0	None	x^2	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-2	0.07214	n/a	4/8/2020	0.061	39	0.04318	0.0129	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1775	n/a	4/8/2020	0.19	22	0.08198	0.03928	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-21	0.1503	n/a	4/7/2020	0.054	21	0.07795	0.0295	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.1535	n/a	4/7/2020	0.1	21	0.08871	0.02642	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWC-9	0.356	n/a	4/8/2020	0.15	42	n/a	n/a	0	n/a	n/a	0.001077	NP Intra (normality) 1 of 2
Barium (mg/L)	GWB-4R	0.261	n/a	4/7/2020	0.09	42	0.1503	0.04972	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-5R	0.3072	n/a	4/7/2020	0.098	40	0.1394	0.07497	0	None	No	0.0004115	Param Intra 1 of 2
Barium (mg/L)	GWB-6R	0.2605	n/a	4/7/2020	0.01	42	0.3159	0.0873	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWA-7	0.068	n/a	4/6/2020	0.015	41	n/a	n/a	36.59	n/a	n/a	0.001118	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-8	0.014	n/a	4/6/2020	0.01ND	61	n/a	n/a	93.44	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.01	n/a	4/7/2020	0.0015	41	n/a	n/a	70.73	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.01	n/a	4/7/2020	0.00094	43	n/a	n/a	69.77	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.00082	43	n/a	n/a	72.09	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.01	n/a	4/8/2020	0.00058	43	n/a	n/a	79.07	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.014	n/a	4/7/2020	0.00074	61	n/a	n/a	67.21	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.0014	43	n/a	n/a	72.09	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	62	n/a	n/a	80.65	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.00073	42	n/a	n/a	78.57	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.00069	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.001	22	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	n/a	4/7/2020	0.01ND	21	n/a	n/a	57.14	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.00049	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.014	n/a	4/8/2020	0.0015	43	n/a	n/a	65.12	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWB-4R	0.02279	n/a	4/7/2020	0.0028	20	0.01249	0.004168	0	None	No	0.0004115	Param Intra 1 of 2
Chromium (mg/L)	GWB-5R	0.03	n/a	4/7/2020	0.0022	38	n/a	n/a	39.47	n/a	n/a	0.001294	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWB-6R	0.01385	n/a	4/7/2020	0.0094	23	-5.977	0.704	13.04	None	ln(x)	0.0004115	Param Intra 1 of 2
Lead (mg/L)	GWA-7	0.013	n/a	4/6/2020	0.0024	40	n/a	n/a	65	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-8	0.0095	n/a	4/6/2020	0.0001	62	n/a	n/a	90.32	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.005	n/a	4/7/2020	0.00012	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	4/7/2020	0.00036	42	n/a	n/a	78.57	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.005	n/a	4/7/2020	0.000081	43	n/a	n/a	76.74	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.0078	n/a	4/8/2020	0.00017	43	n/a	n/a	81.4	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.005	n/a	4/7/2020	0.005ND	62	n/a	n/a	95.16	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.0065	n/a	4/7/2020	0.000086	43	n/a	n/a	88.37	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.005	n/a	4/7/2020	0.00023	61	n/a	n/a	90.16	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.005	n/a	4/8/2020	0.000084	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.0069	n/a	4/8/2020	0.005ND	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	n/a	4/8/2020	0.005ND	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.005	n/a	4/7/2020	0.005ND	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	4/7/2020	0.00067	21	n/a	n/a	57.14	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.0051	n/a	4/8/2020	0.00021	42	n/a	n/a	88.1	n/a	n/a	0.001077	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-4R	0.011	n/a	4/7/2020	0.00073	37	n/a	n/a	59.46	n/a	n/a	0.001361	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.011	n/a	4/7/2020	0.0014	35	n/a	n/a	77.14	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.025	n/a	4/7/2020	0.00063	43	n/a	n/a	81.4	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-7	0.0438	n/a	4/6/2020	0.0078	40	n/a	n/a	65	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	62	n/a	n/a	96.77	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.023	n/a	4/7/2020	0.0013	41	n/a	n/a	58.54	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.036	n/a	4/7/2020	0.0021	43	n/a	n/a	62.79	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.01ND	43	n/a	n/a	93.02	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.01944	n/a	4/7/2020	0.005	27	0.007544	0.005074	22.22	Kaplan-Meier	No	0.0004115	Param Intra 1 of 2
Selenium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.0029	39	n/a	n/a	92.31	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	62	n/a	n/a	75.81	n/a	n/a	0.0005007	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.01ND	43	n/a	n/a	83.72	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.01ND	41	n/a	n/a	92.68	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.0013	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.04956	n/a	4/7/2020	0.012	21	0.02277	0.01093	4.762	None	No	0.0004115	Param Intra 1 of 2
Selenium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.01ND	21	n/a	n/a	80.95	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	n/a	4/8/2020	0.01ND	43	n/a	n/a	97.67	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.01	n/a	4/7/2020	0.0025	34	n/a	n/a	67.65	n/a	n/a	0.001599	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.011	n/a	4/7/2020	0.01ND	43	n/a	n/a	88.37	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.01	n/a	4/7/2020	0.01ND	43	n/a	n/a	83.72	n/a	n/a	0.001037	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-7	0.5207	n/a	4/6/2020	0.12	16	0.2627	0.09909	0	None	No	0.0004115	Param Intra 1 of 2

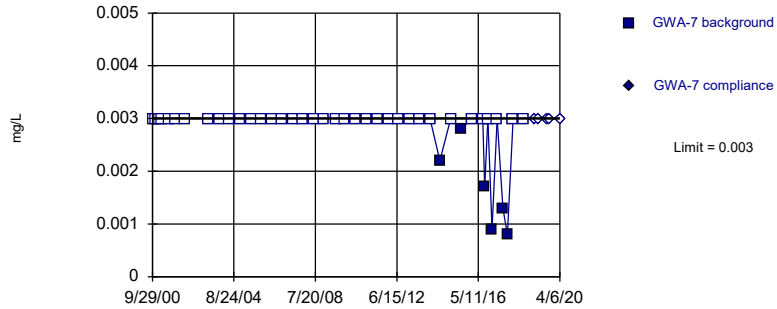
Intrawell Prediction Limits (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/24/2020, 8:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	60	n/a	n/a	91.67	n/a	n/a	0.0005281	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.01	n/a	4/7/2020	0.0015	39	n/a	n/a	58.97	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.01	n/a	4/7/2020	0.01ND	40	n/a	n/a	55	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.0024	40	n/a	n/a	80	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.01	n/a	4/8/2020	0.01ND	40	n/a	n/a	80	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.05462	n/a	4/7/2020	0.0026	36	0.1496	0.03719	0	None	sqrt(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-15	0.01	n/a	4/7/2020	0.01ND	40	n/a	n/a	72.5	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.012	n/a	4/7/2020	0.01ND	62	n/a	n/a	50	n/a	n/a	0.0005007	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-17	0.01	n/a	4/8/2020	0.01ND	40	n/a	n/a	75	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.01	n/a	4/8/2020	0.01ND	38	n/a	n/a	100	n/a	n/a	0.001294	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.01ND	21	n/a	n/a	38.1	n/a	n/a	0.003999	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-21	0.007919	n/a	4/7/2020	0.01ND	18	-5.764	0.3646	33.33	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWC-22	0.01	n/a	4/7/2020	0.0014	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.014	n/a	4/8/2020	0.0015	40	n/a	n/a	87.5	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.07366	n/a	4/7/2020	0.0037	22	0.04594	0.0114	0	None	No	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-5R	0.04817	n/a	4/7/2020	0.0053	33	-4.848	0.7947	15.15	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Vanadium (mg/L)	GWB-6R	0.053	n/a	4/7/2020	0.041	23	n/a	n/a	13.04	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-7	0.0853	n/a	4/6/2020	0.01ND	39	n/a	n/a	30.77	n/a	n/a	0.001226	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-8	0.01	n/a	4/6/2020	0.01ND	57	n/a	n/a	24.56	n/a	n/a	0.0005955	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.011	n/a	4/7/2020	0.01ND	40	n/a	n/a	85	n/a	n/a	0.001159	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-11	0.013	n/a	4/7/2020	0.01ND	39	n/a	n/a	69.23	n/a	n/a	0.001226	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-12	0.01	n/a	4/7/2020	0.01ND	28	n/a	n/a	32.14	n/a	n/a	0.002337	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.036	n/a	4/8/2020	0.023	38	n/a	n/a	28.95	n/a	n/a	0.001294	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.011	n/a	4/7/2020	0.01ND	63	n/a	n/a	87.3	n/a	n/a	0.000487	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-15	0.011	n/a	4/7/2020	0.01ND	41	n/a	n/a	90.24	n/a	n/a	0.001118	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-16	0.01	n/a	4/7/2020	0.01ND	61	n/a	n/a	67.21	n/a	n/a	0.0005144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-17	0.0175	n/a	4/8/2020	0.01ND	40	n/a	n/a	32.5	n/a	n/a	0.001159	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.012	n/a	4/8/2020	0.01ND	37	n/a	n/a	81.08	n/a	n/a	0.001361	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.01	n/a	4/8/2020	0.01ND	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.01	n/a	4/7/2020	0.01ND	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-22	0.02471	n/a	4/7/2020	0.01ND	17	0.008441	0.00633	11.76	None	No	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWC-9	0.01	n/a	4/8/2020	0.01ND	37	n/a	n/a	45.95	n/a	n/a	0.001361	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWB-4R	0.1912	n/a	4/7/2020	0.01ND	40	-4.471	1.259	17.5	Kaplan-Meier	ln(x)	0.0004115	Param Intra 1 of 2
Zinc (mg/L)	GWB-5R	0.01	n/a	4/7/2020	0.01ND	30	n/a	n/a	56.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWB-6R	0.01034	n/a	4/7/2020	0.01ND	19	0.06024	0.01655	26.32	Kaplan-Meier	sqrt(x)	0.0004115	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

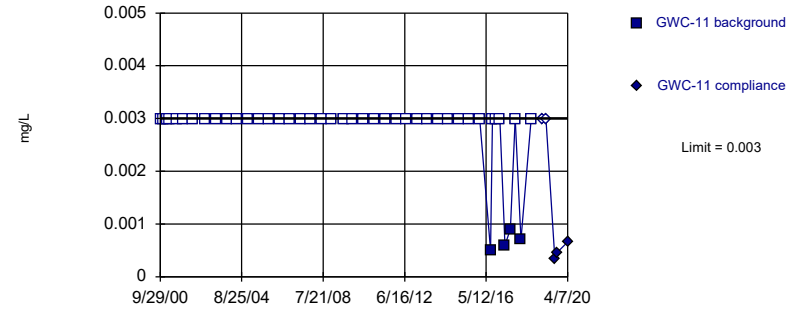


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

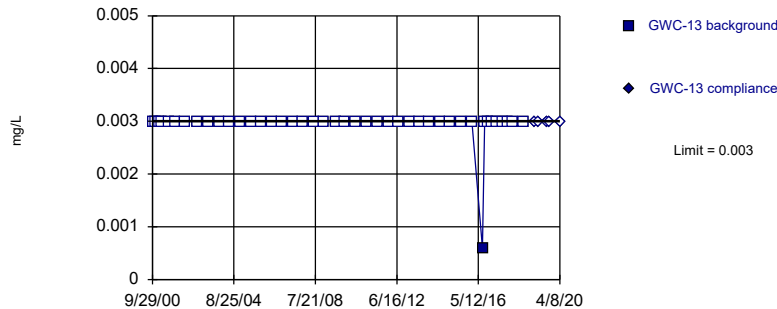


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 90.7% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

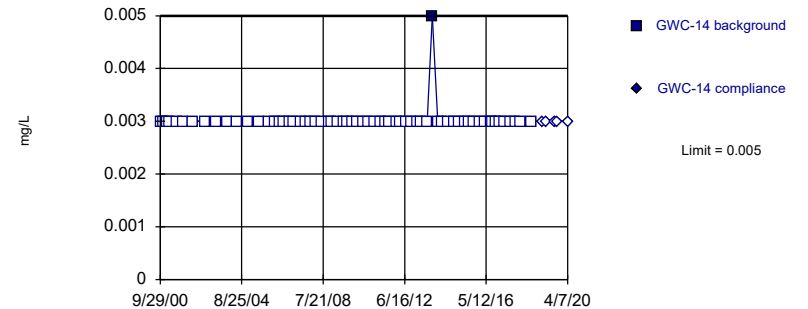


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

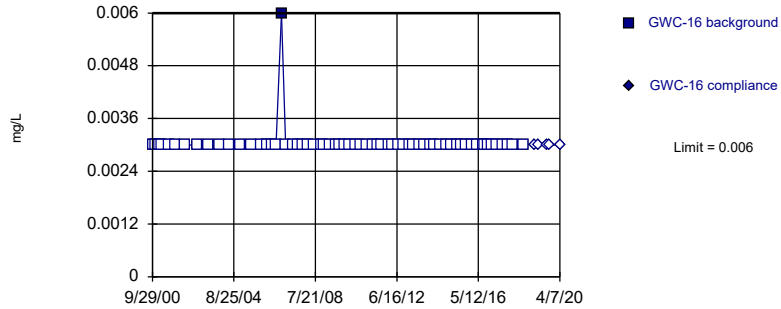
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 98.44% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

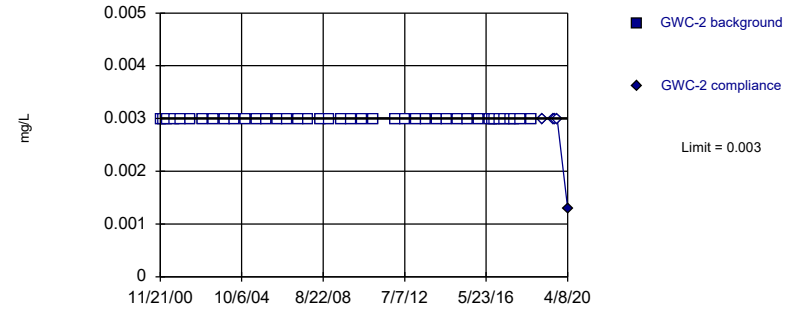
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 98.44% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

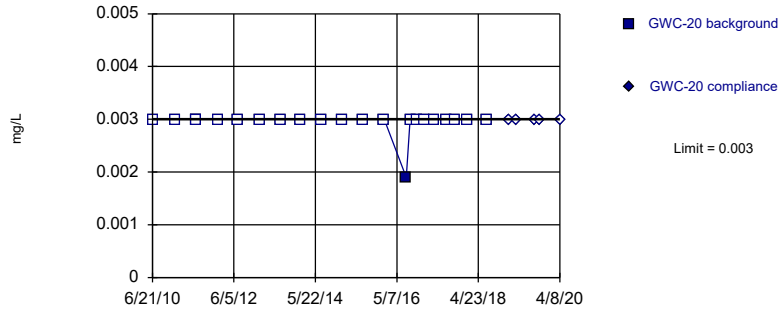
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 41) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

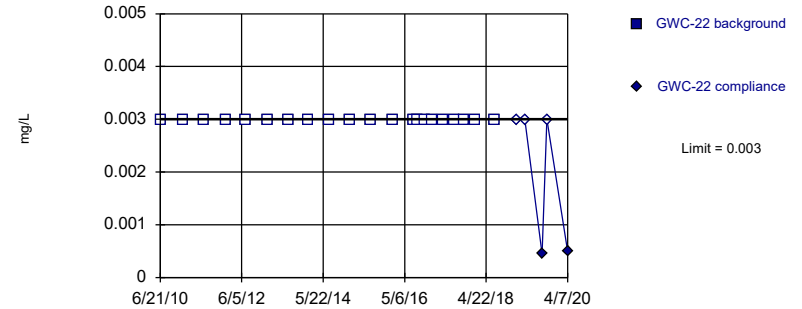
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
 Intrawell Non-parametric

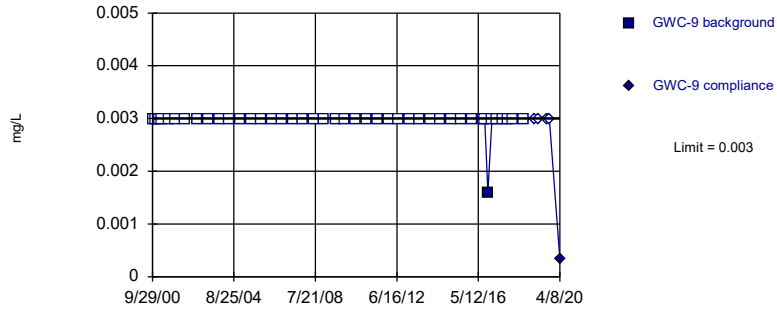


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

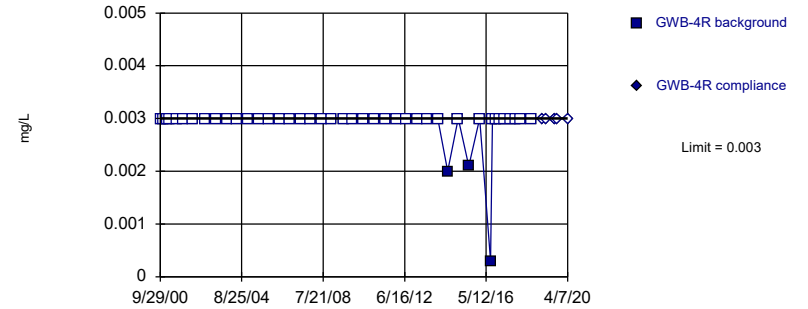


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

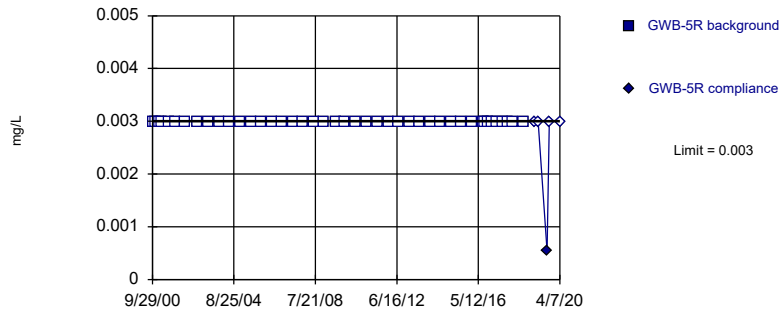


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

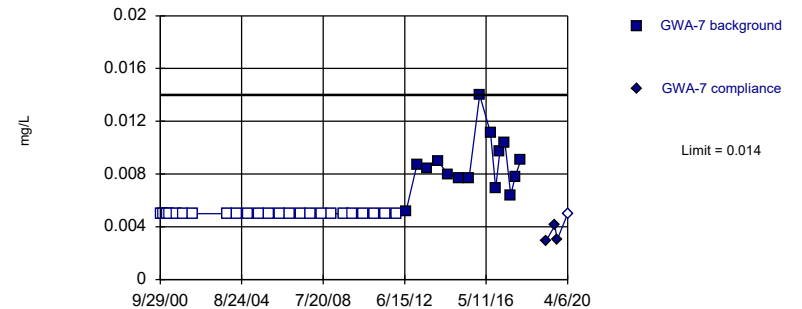


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 43) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Antimony Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

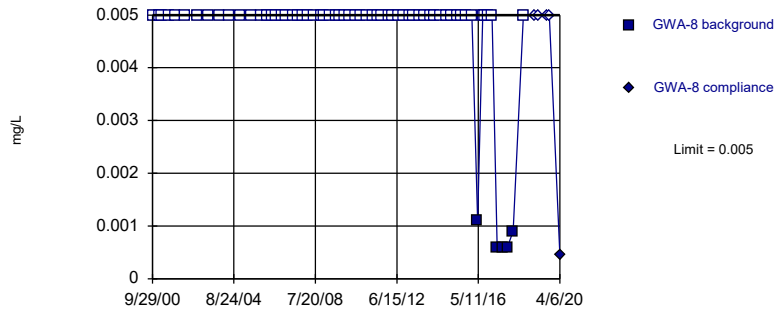


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

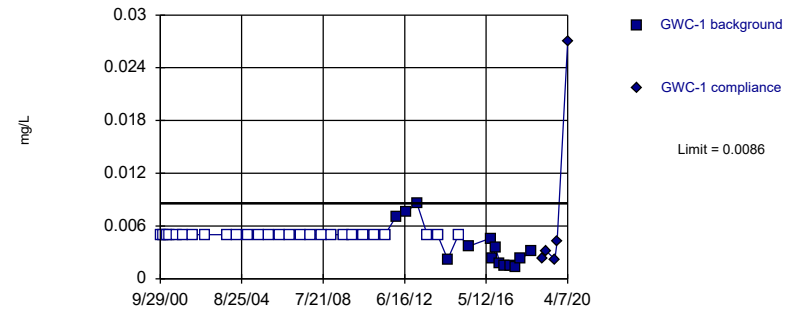


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 92.06% NDs. Well-constituent pair annual alpha = 0.0009737. Individual comparison alpha = 0.000487 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

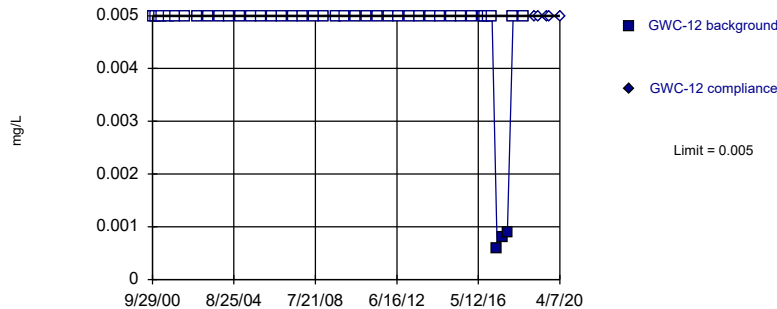


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 65.85% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

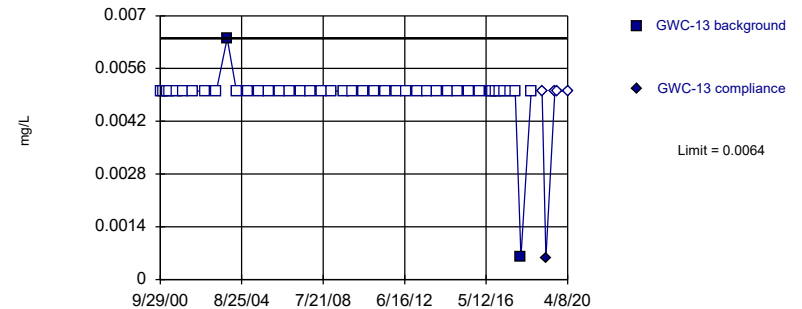


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

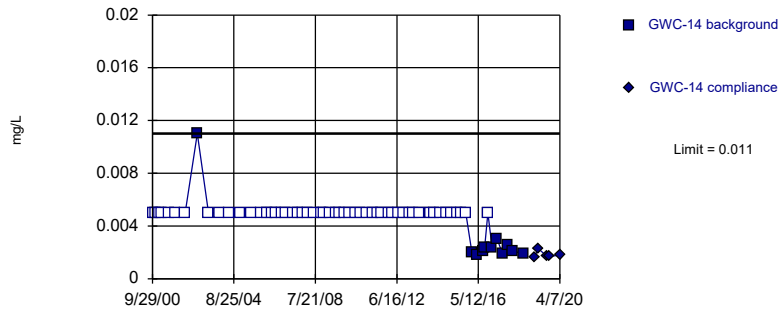


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 95.35% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

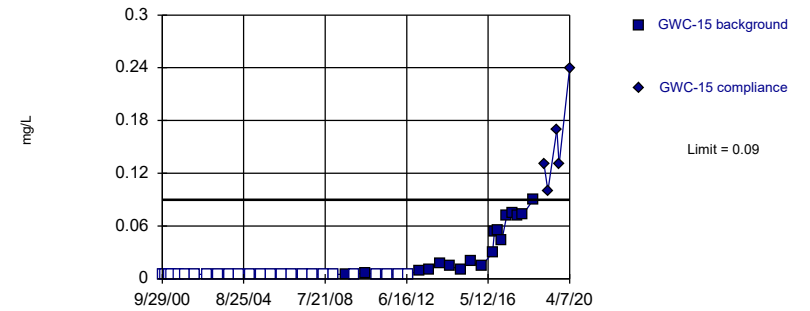


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.0009462. Individual comparison alpha = 0.0004732 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

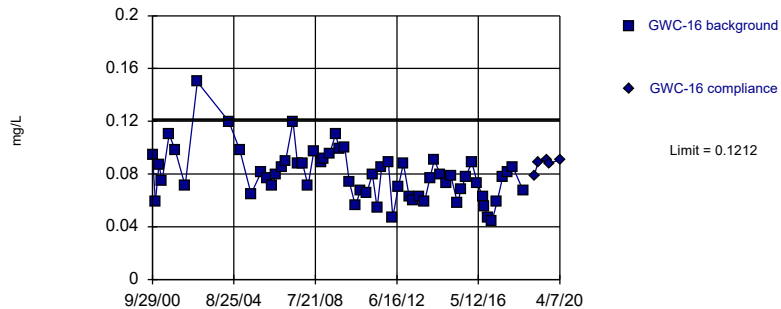


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 58.14% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:39 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

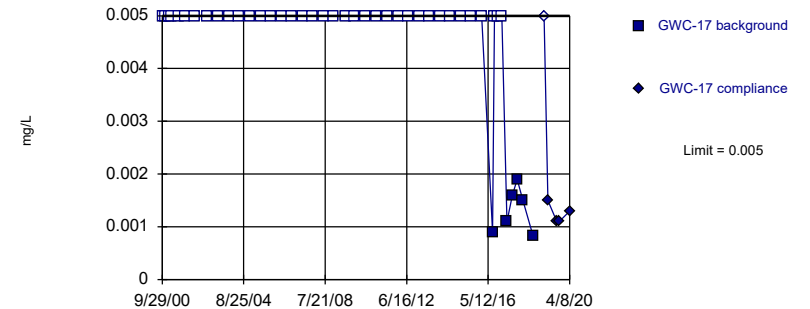


Background Data Summary: Mean=0.07945, Std. Dev.=0.01932, n=62. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9486, critical = 0.947. Kappa = 2.162 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

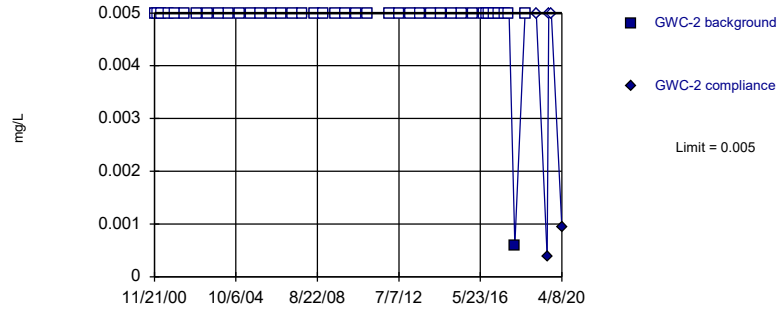


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 86.05% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

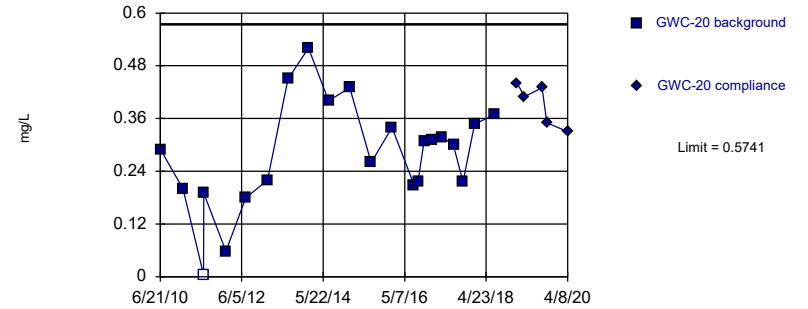


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 97.56% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Parametric

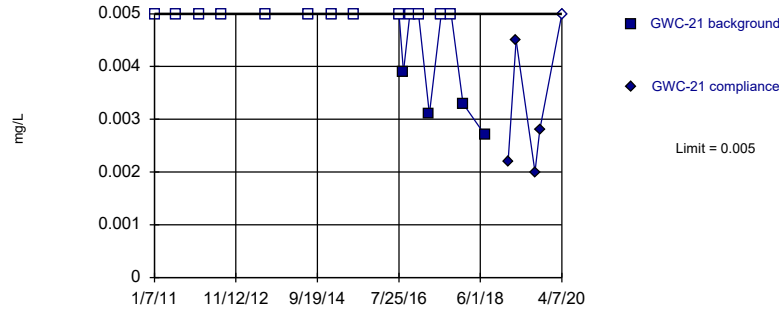


Background Data Summary: Mean=0.2788, Std. Dev.=0.1215, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2.431 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

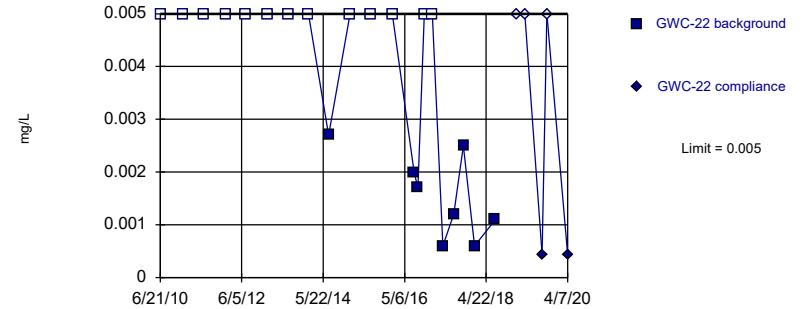


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric



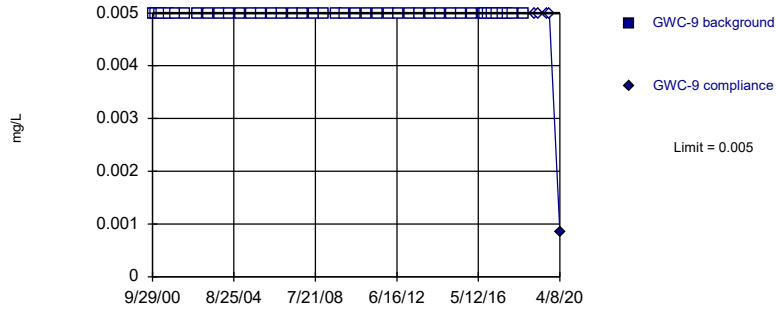
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 61.9% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



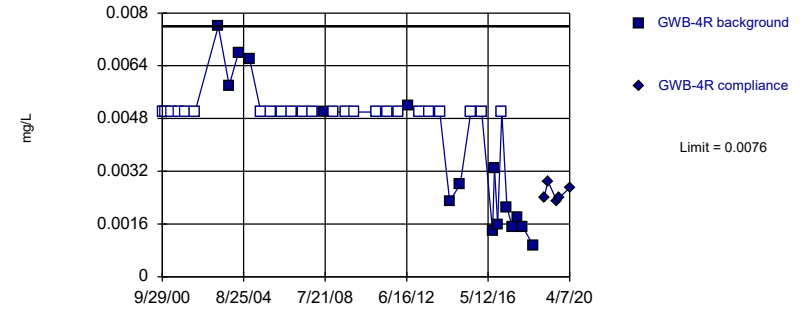
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 43) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



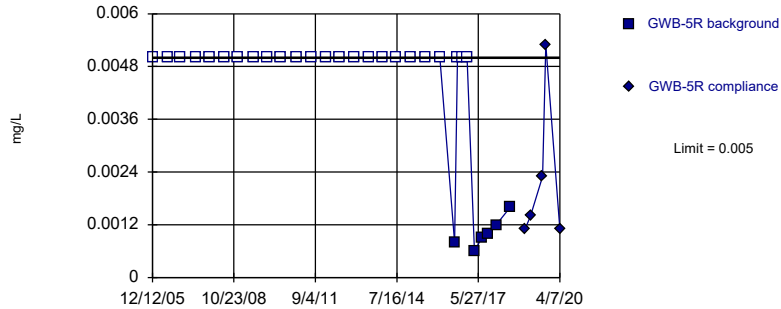
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 60% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



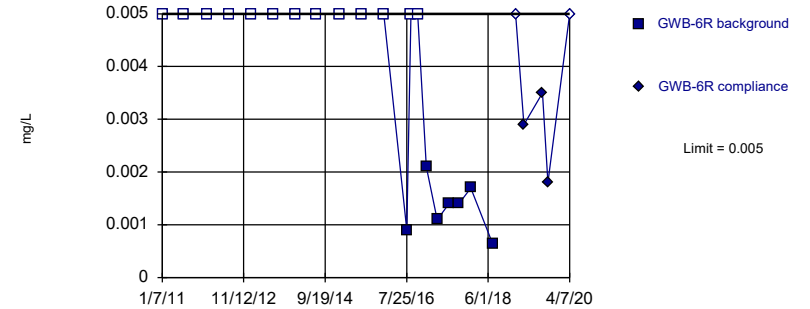
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

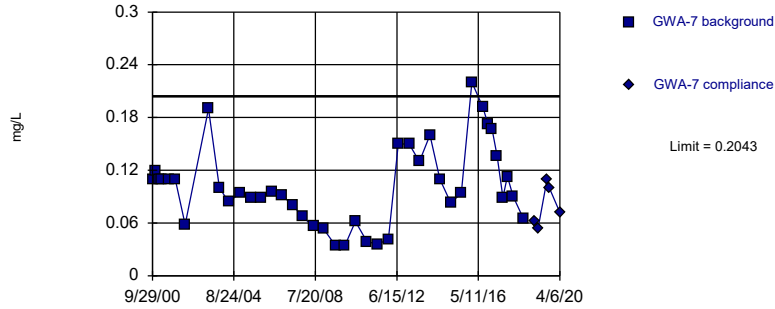
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

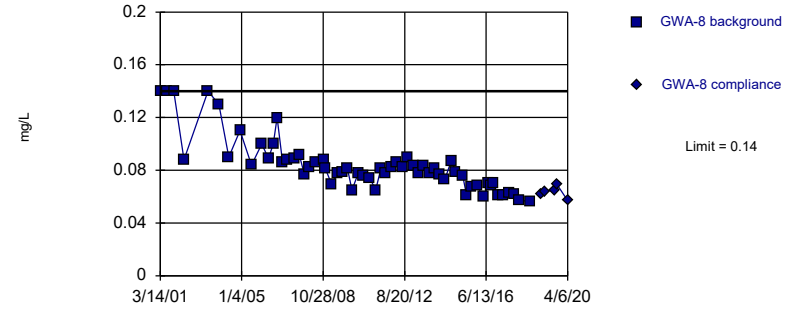
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.1021, Std. Dev.=0.04574, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.92. Kappa = 2.233 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

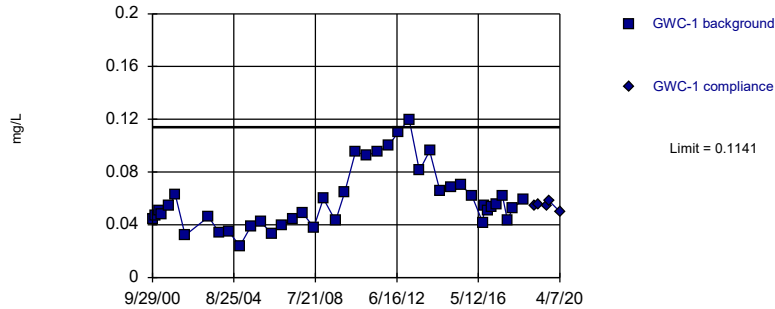
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Well-constituent pair annual alpha = 0.001056. Individual comparison alpha = 0.0005281 (1 of 2).

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

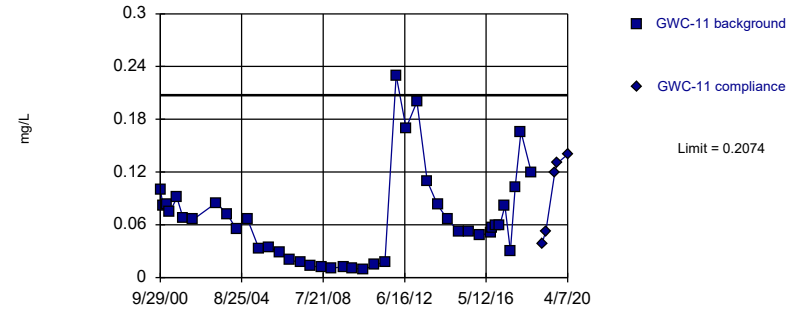
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2379, Std. Dev.=0.04483, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric

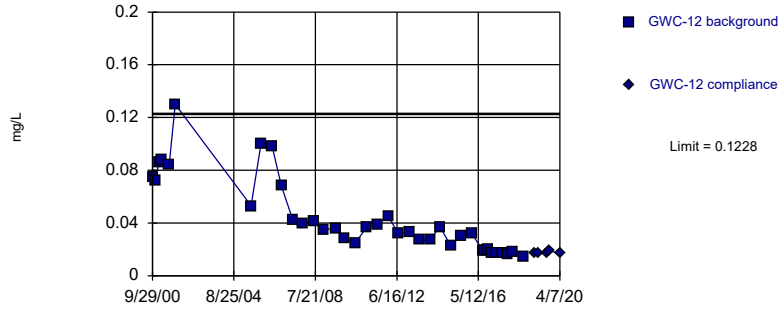


Background Data Summary (based on square root transformation): Mean=0.2407, Std. Dev.=0.09636, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

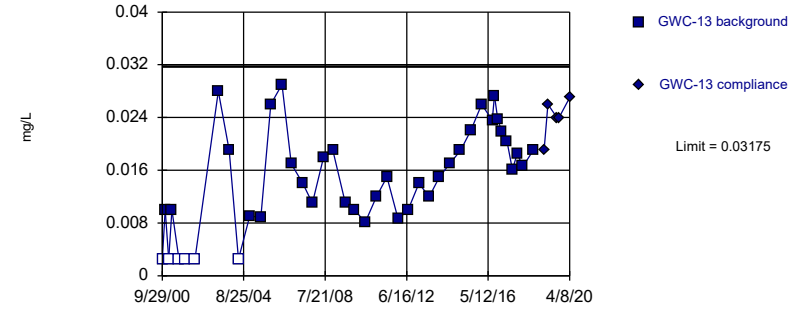


Background Data Summary (based on cube root transformation): Mean=0.3382, Std. Dev.=0.07041, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.914. Kappa = 2.256 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

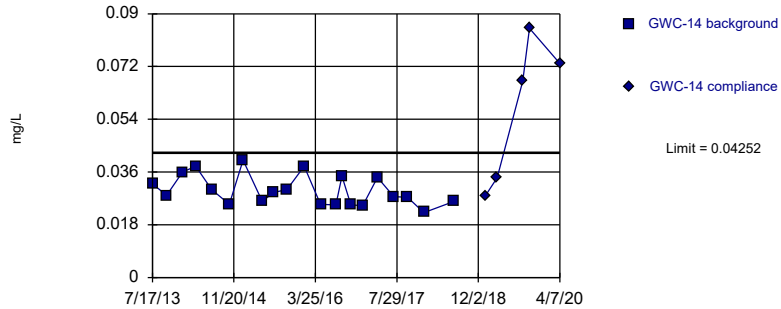


Background Data Summary: Mean=0.01478, Std. Dev.=0.00762, n=42, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Parametric

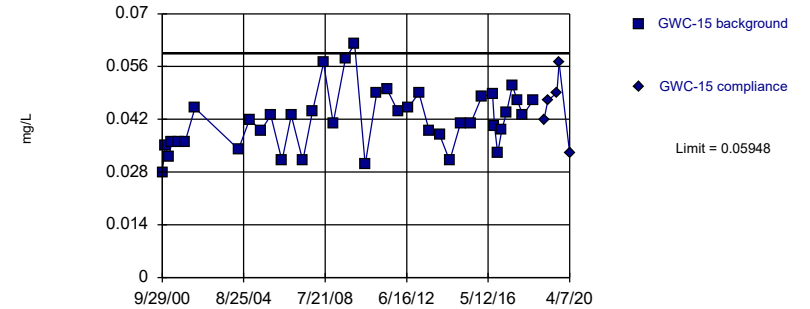


Background Data Summary: Mean=0.02967, Std. Dev.=0.00524, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9173, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

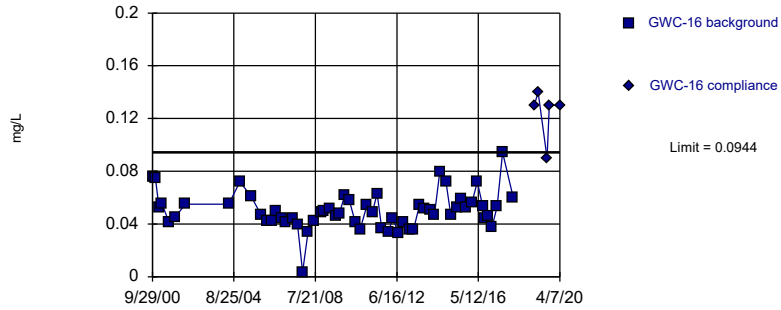


Background Data Summary: Mean=0.04178, Std. Dev.=0.00791, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.969, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

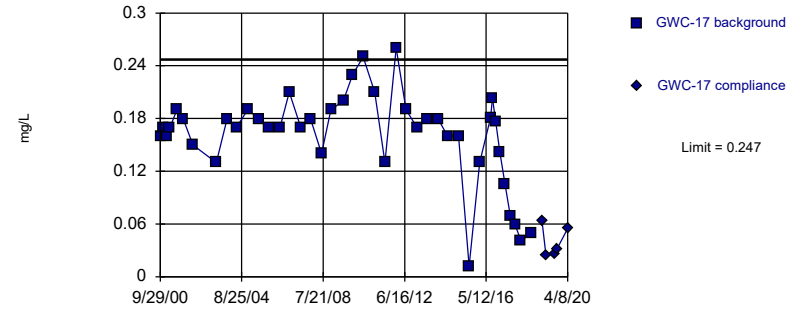


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 59 background values. Well-constituent pair annual alpha = 0.001101. Individual comparison alpha = 0.0005506 (1 of 2).

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

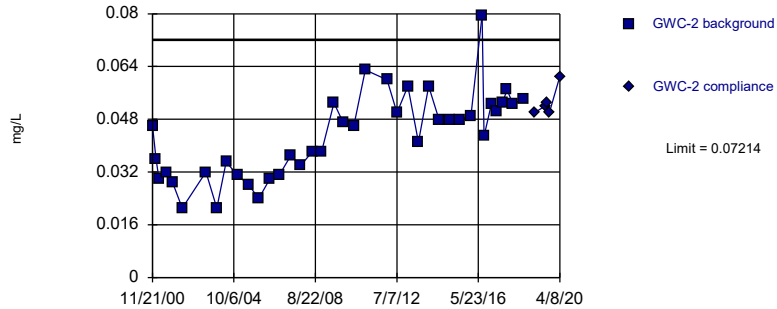


Background Data Summary (based on square transformation): Mean=0.02849, Std. Dev.=0.01459, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9442, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

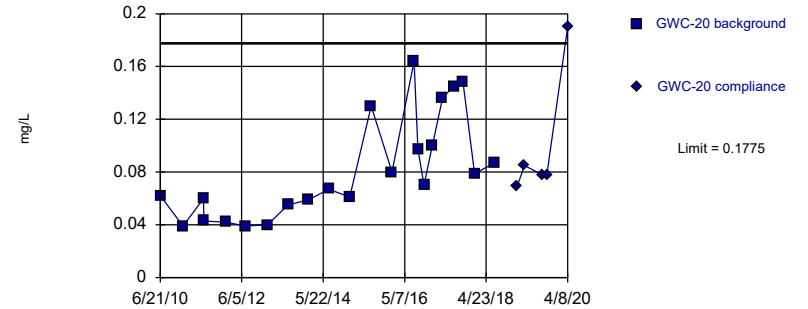


Background Data Summary: Mean=0.04318, Std. Dev.=0.0129, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9652, critical = 0.917. Kappa = 2.244 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

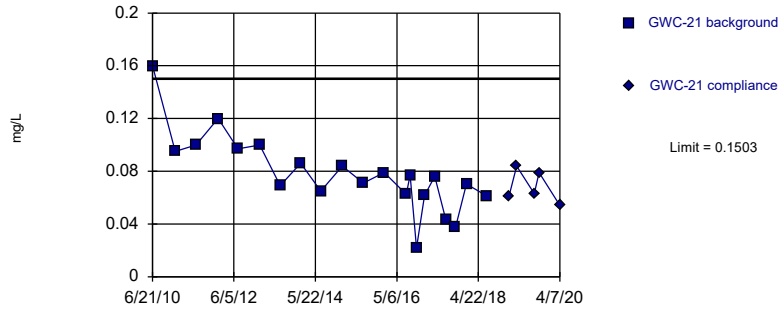
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.08198, Std. Dev.=0.03928, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8843, critical = 0.878. Kappa = 2.431 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:40 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

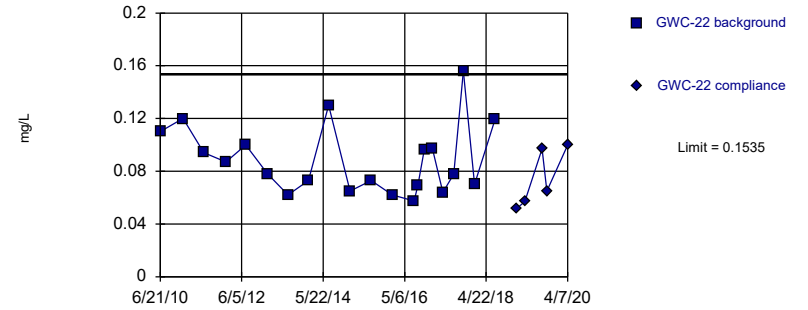
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.07795, Std. Dev.=0.0295, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

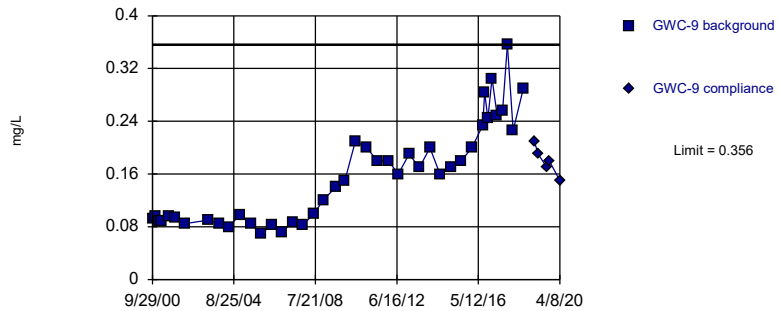
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.08871, Std. Dev.=0.02642, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9073, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

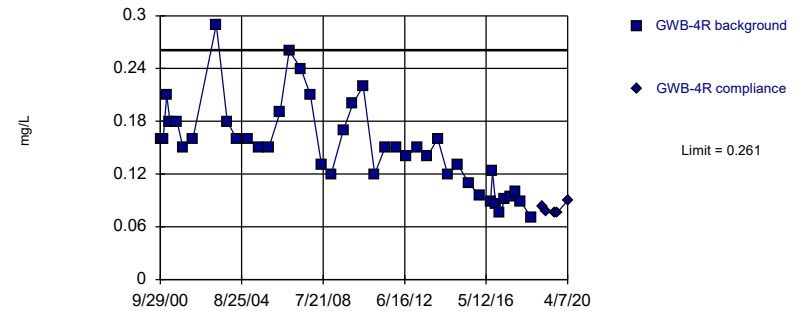
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric

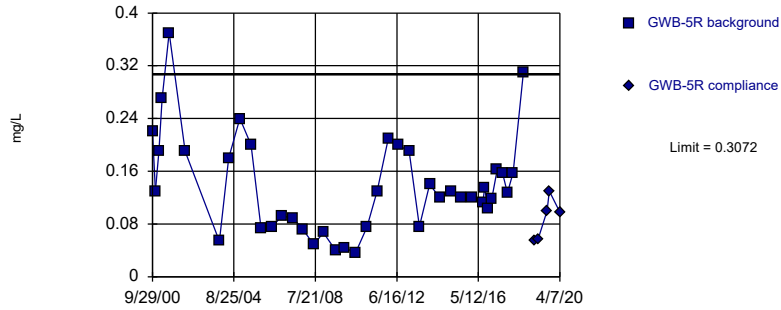


Background Data Summary: Mean=0.1503, Std. Dev.=0.04972, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Parametric

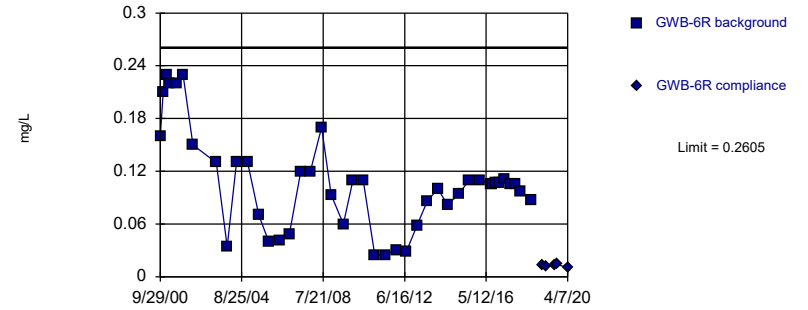


Background Data Summary: Mean=0.1394, Std. Dev.=0.07497, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.93, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Parametric

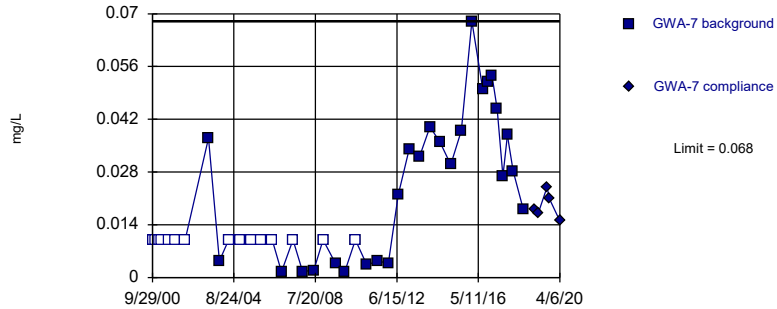


Background Data Summary (based on square root transformation): Mean=0.3159, Std. Dev.=0.0873, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.922. Kappa = 2.228 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Barium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

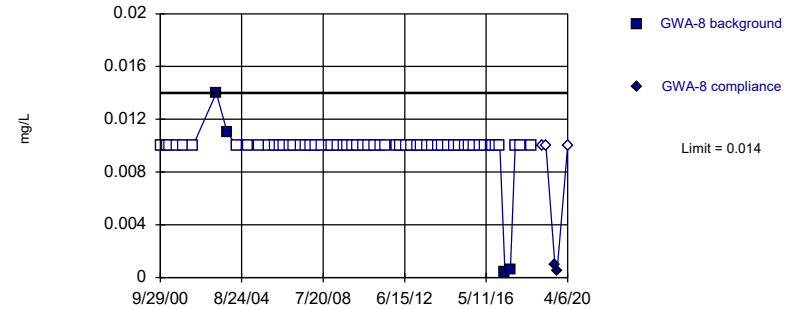


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 36.59% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

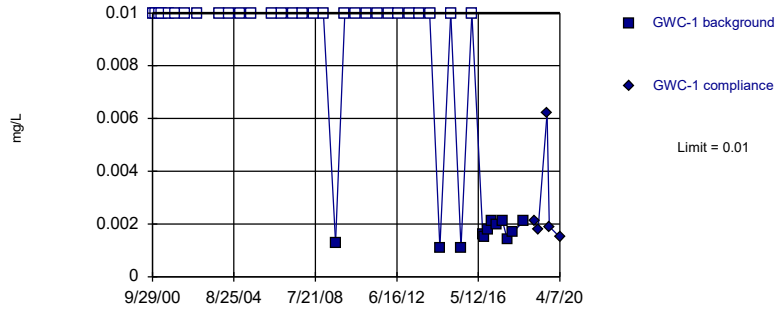


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 93.44% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

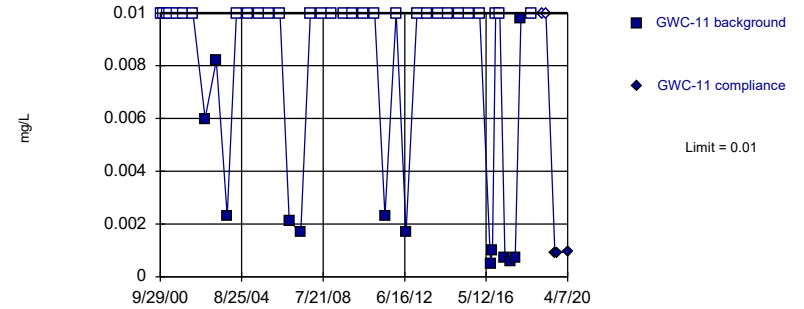


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 70.73% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

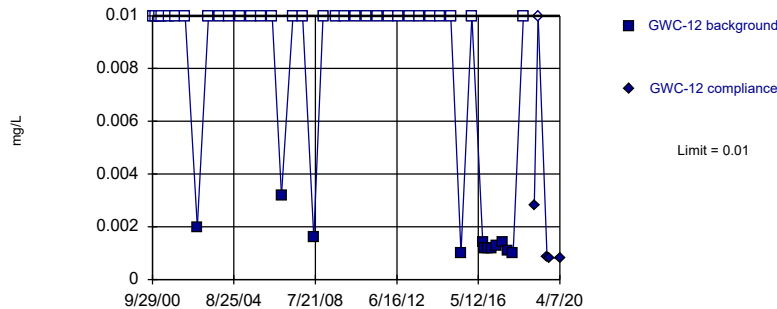


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 69.77% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

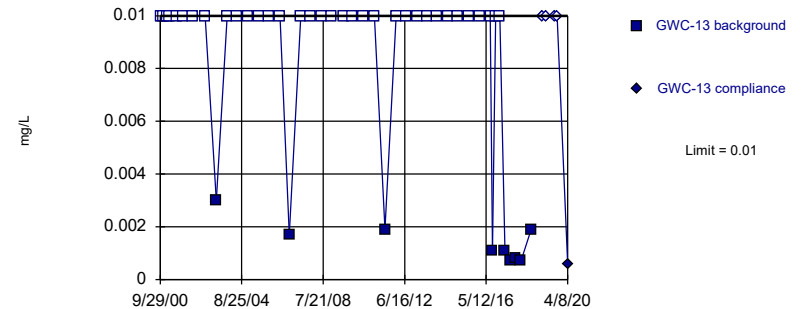


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 72.09% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit Intrawell Non-parametric

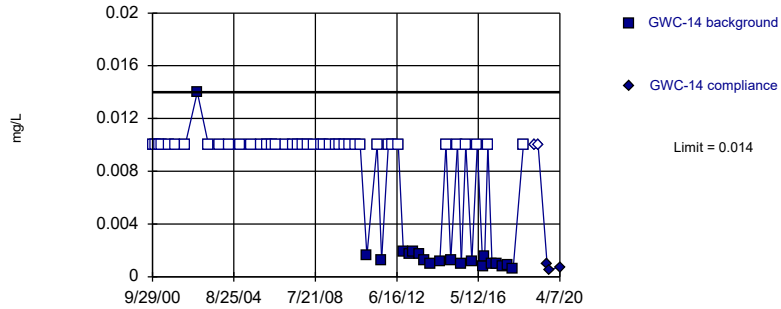


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 79.07% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

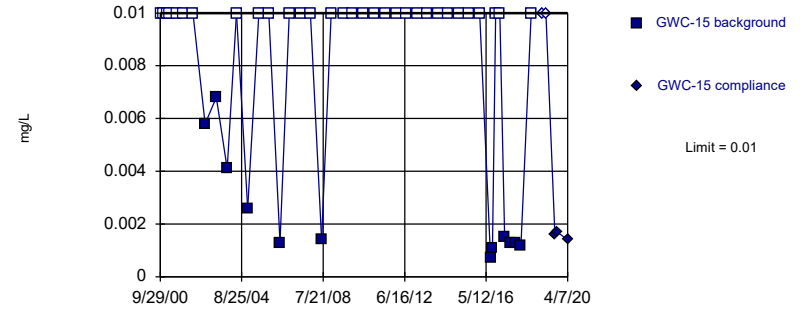


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 67.21% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

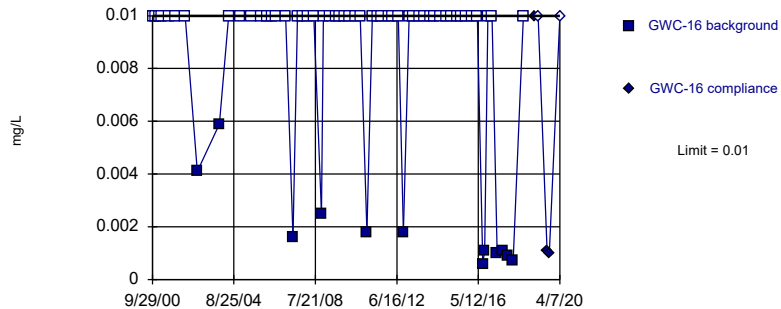


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 72.09% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

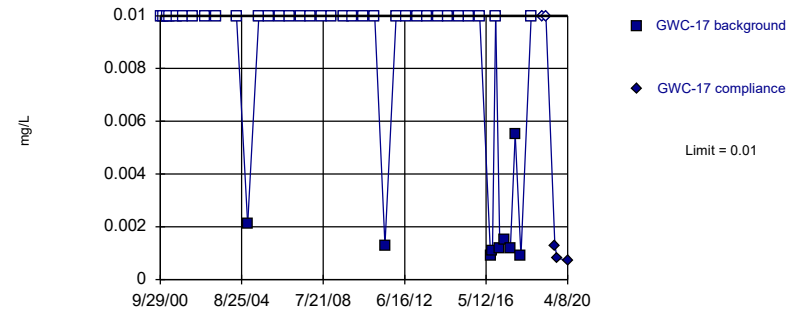


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 80.65% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

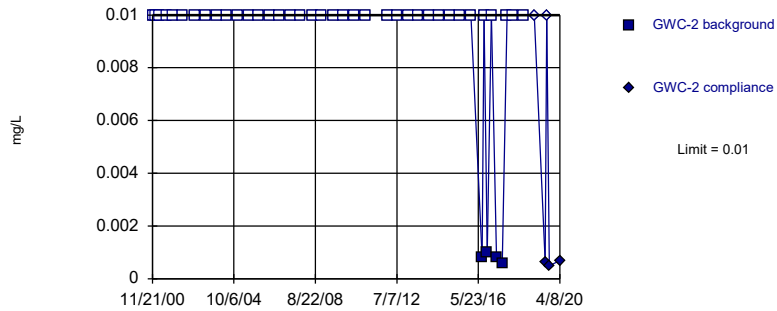


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

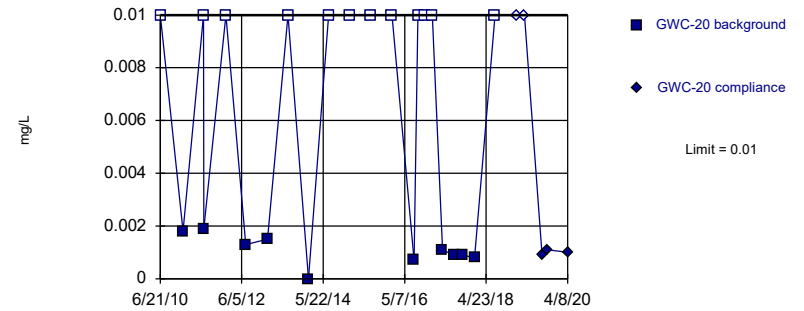


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

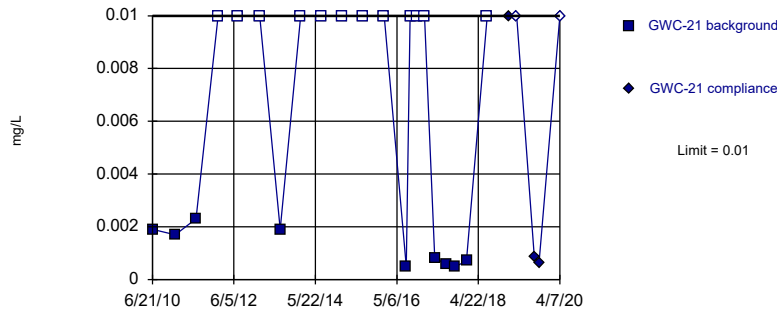


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

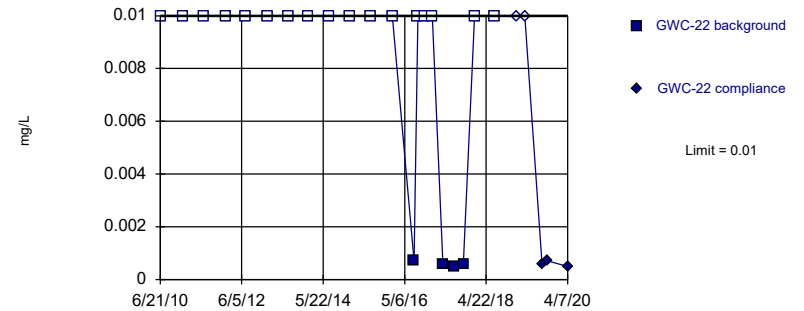


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

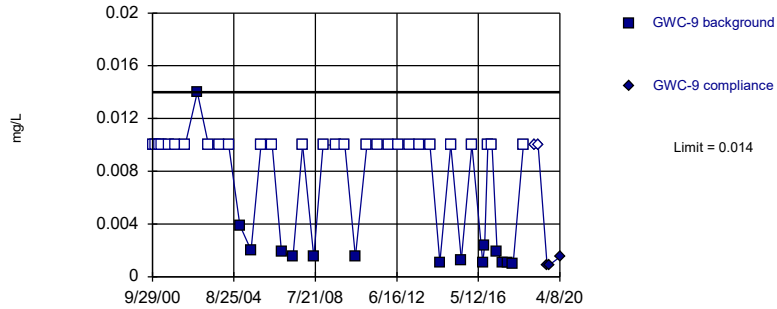


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

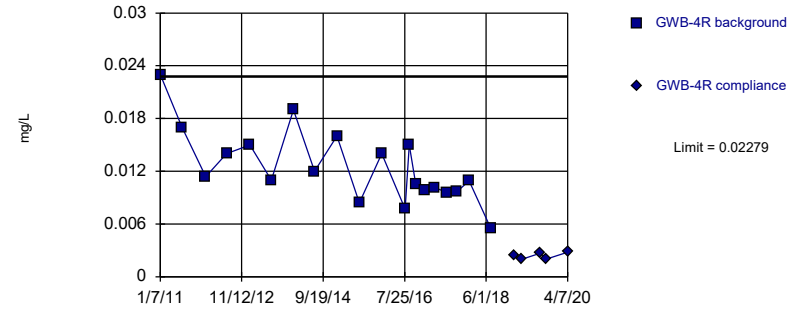


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 65.12% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:41 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Parametric

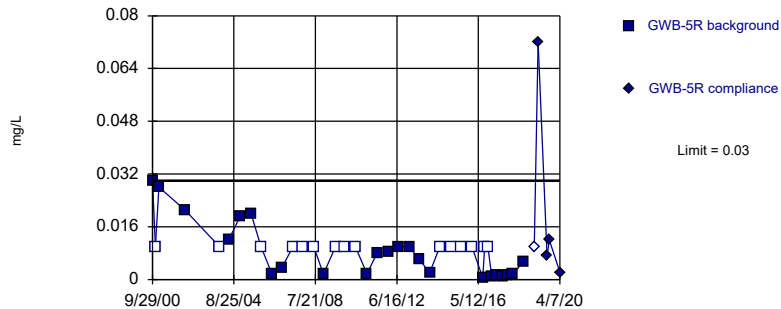


Background Data Summary: Mean=0.01249, Std. Dev.=0.004168, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9524, critical = 0.868. Kappa = 2.472 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Chromium Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

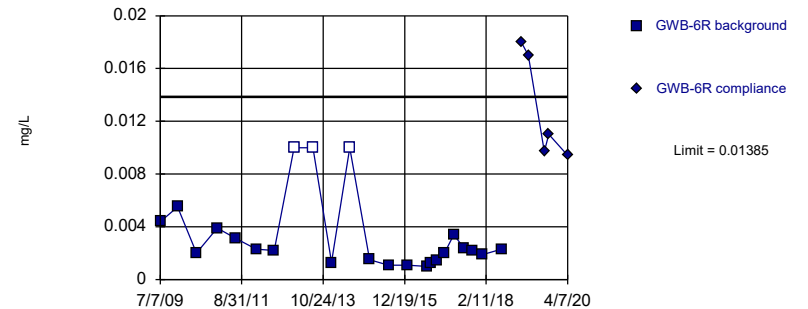


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 39.47% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Constituent: Chromium Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Parametric

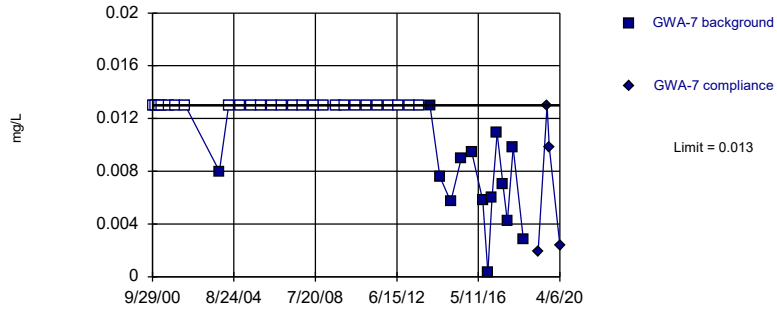


Background Data Summary (based on natural log transformation): Mean=-5.977, Std. Dev.=0.704, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9066, critical = 0.881. Kappa = 2.411 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Chromium Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

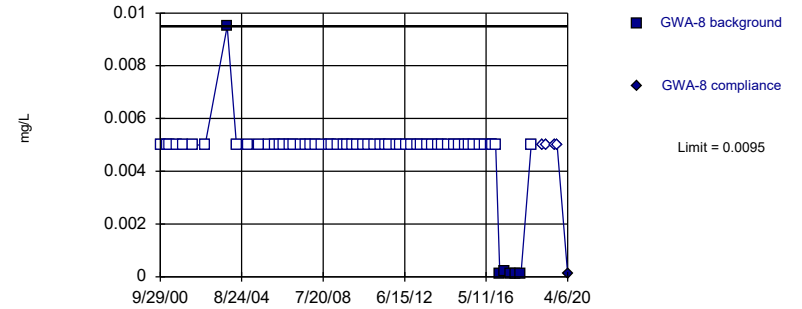


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

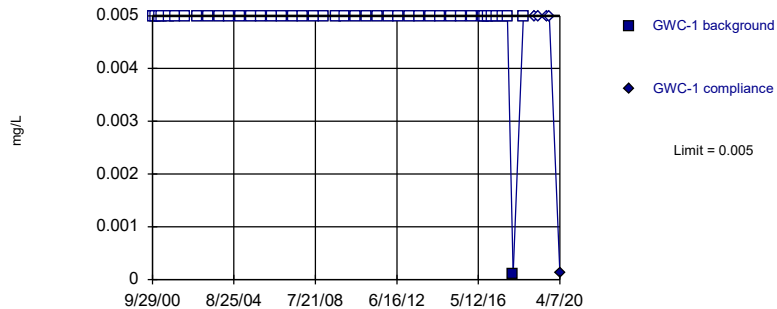


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

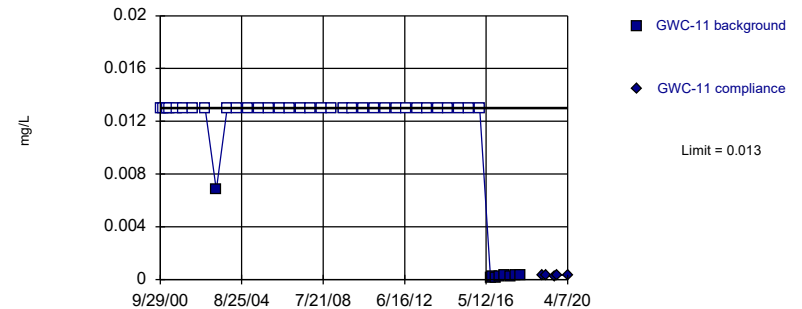


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

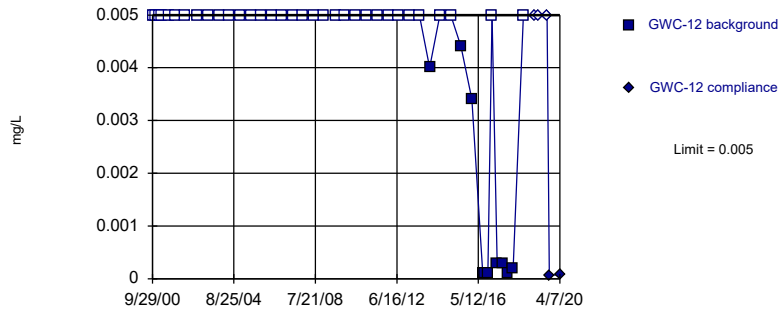


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

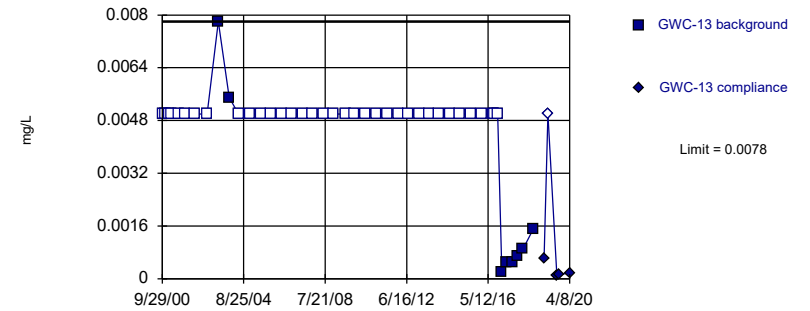


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 76.74% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

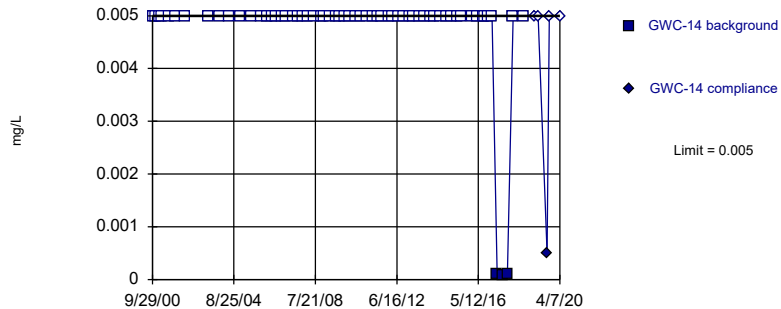


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 81.4% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

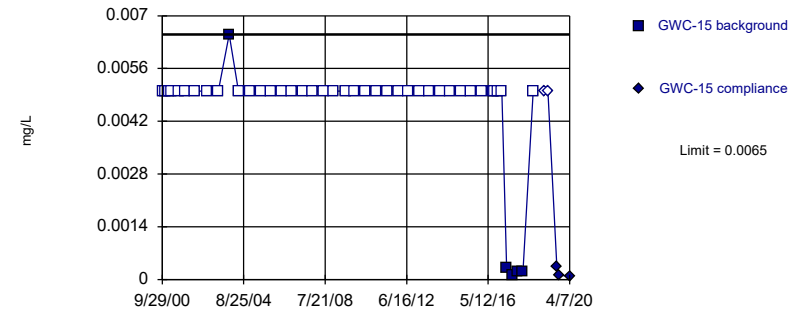


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 95.16% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

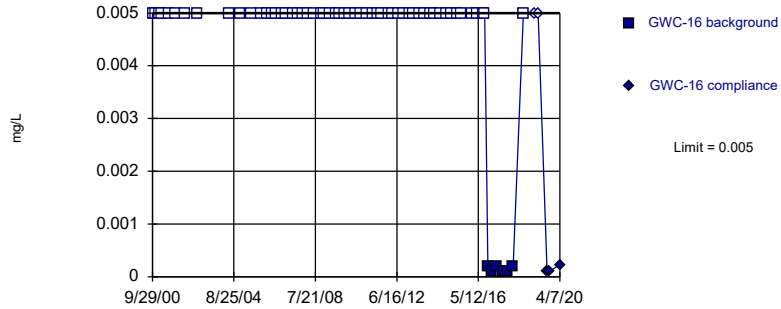


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 88.37% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

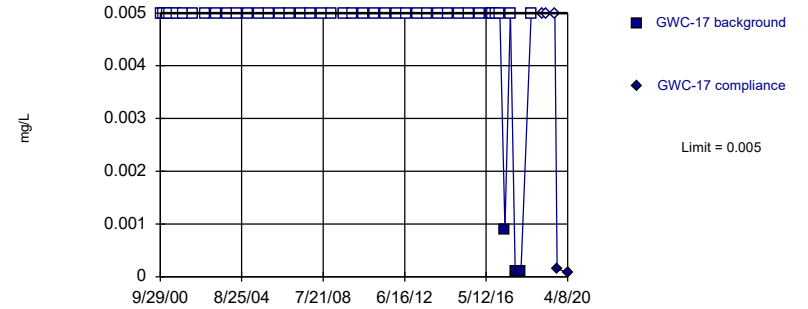


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 90.16% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

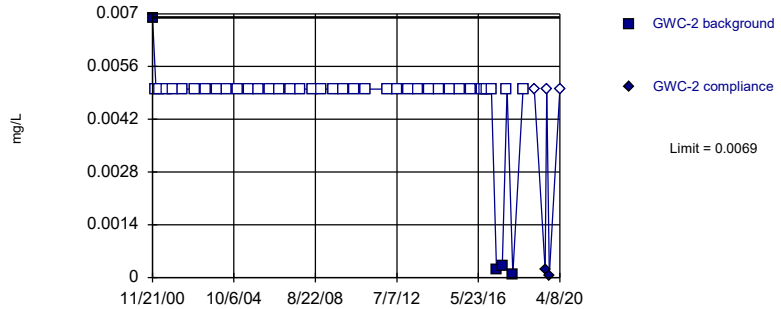


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

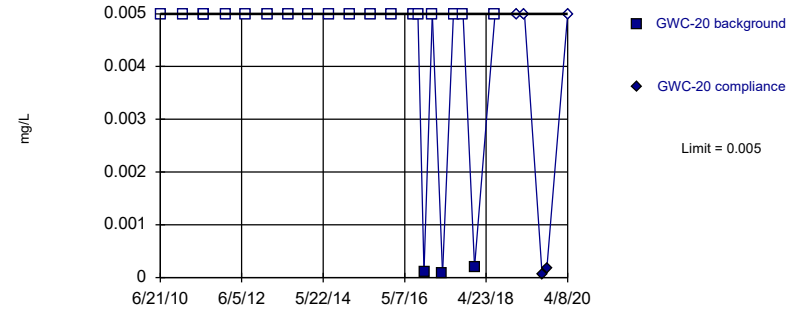


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

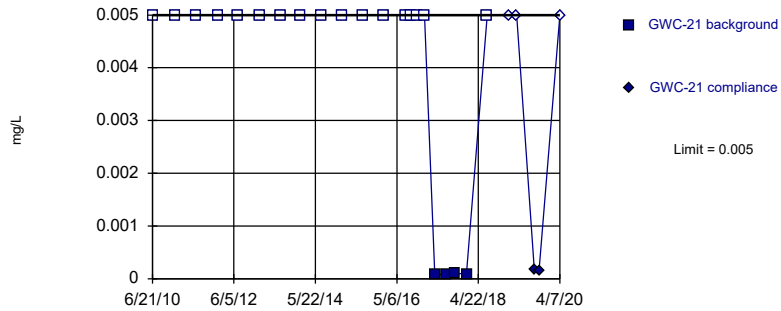


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

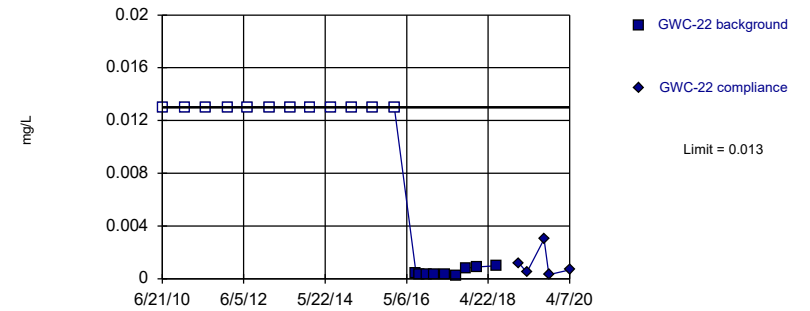


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

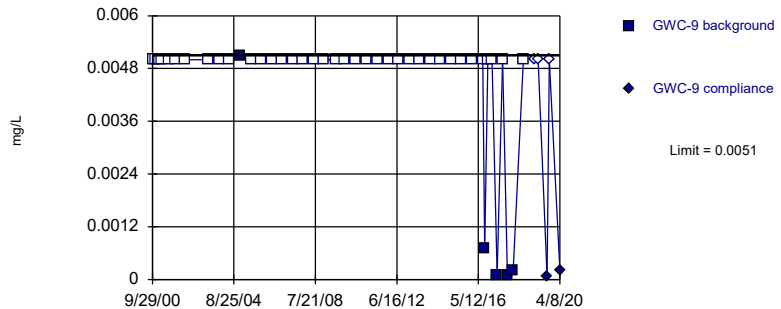


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

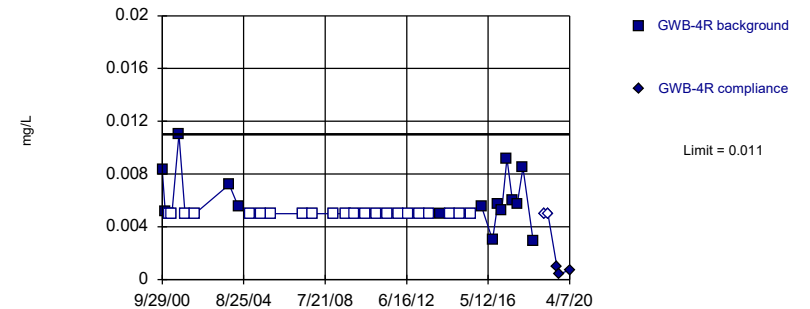


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 88.1% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

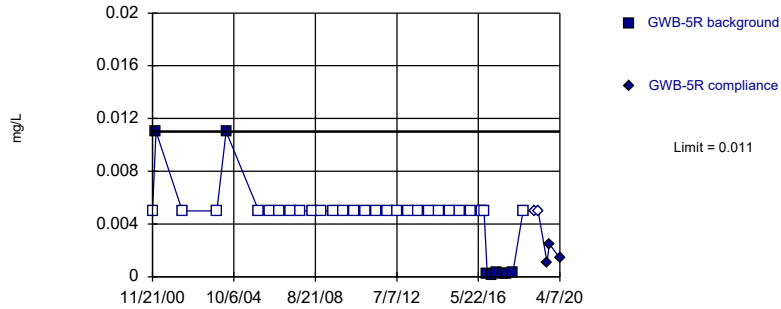


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 59.46% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

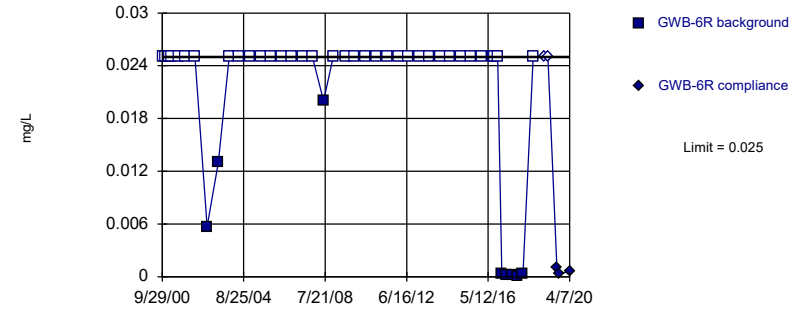


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 35 background values. 77.14% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

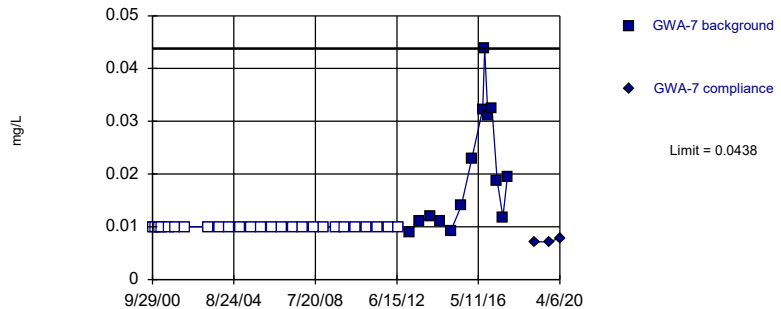


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 81.4% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 5/24/2020 8:42 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

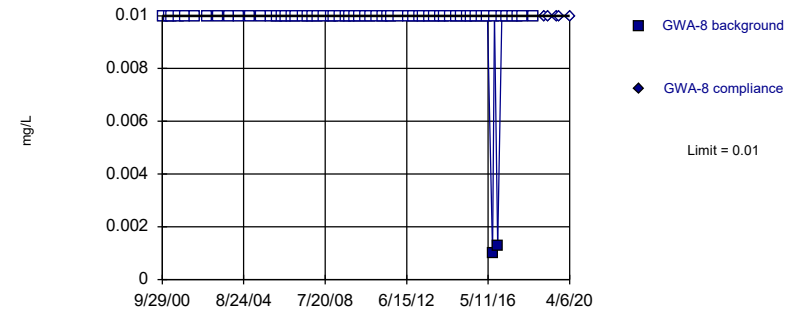


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

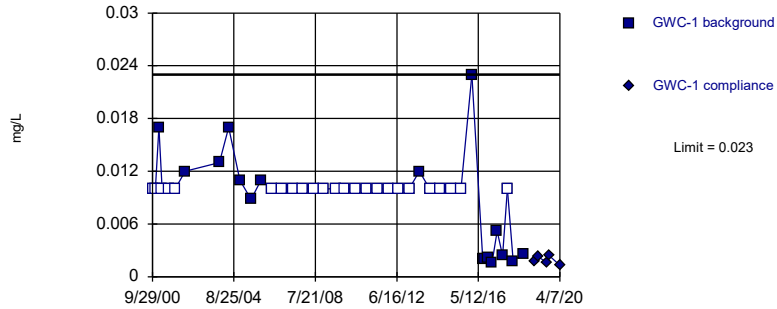


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

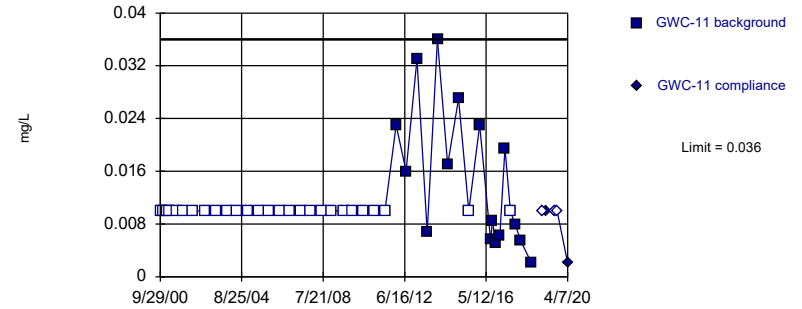


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 58.54% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

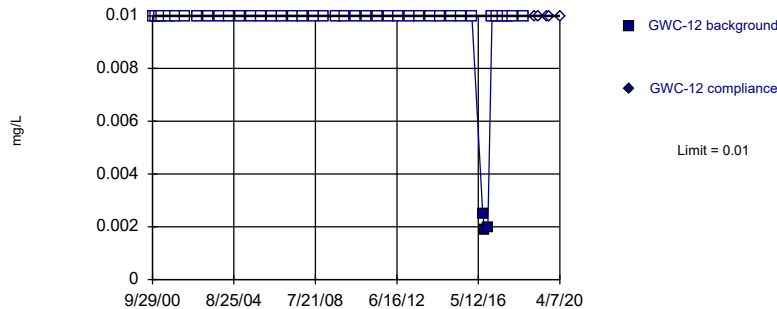


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 62.79% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

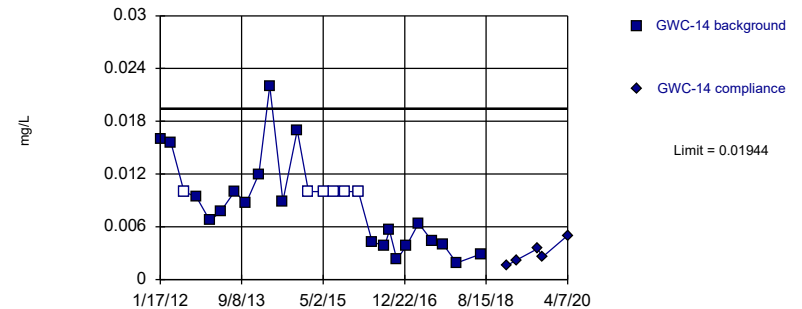


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 93.02% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

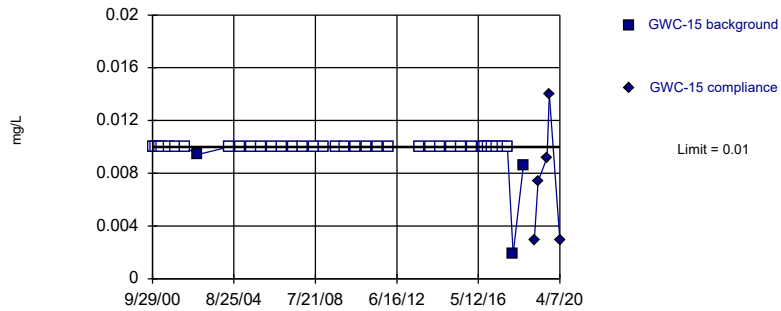


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007544, Std. Dev.=0.005074, n=27, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9204, critical = 0.894. Kappa = 2.345 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

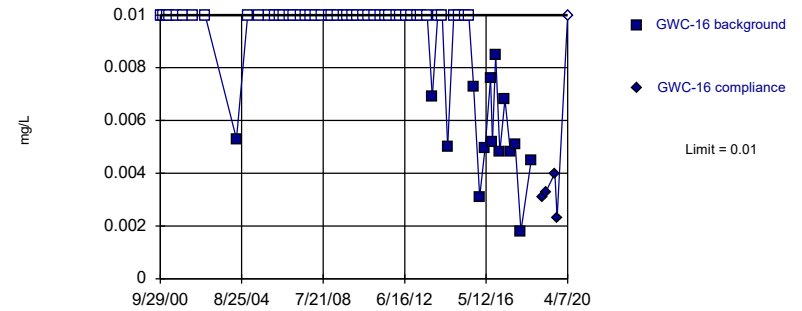


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

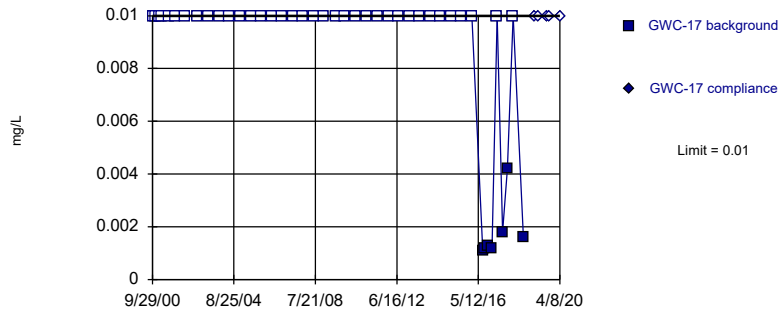


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 75.81% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

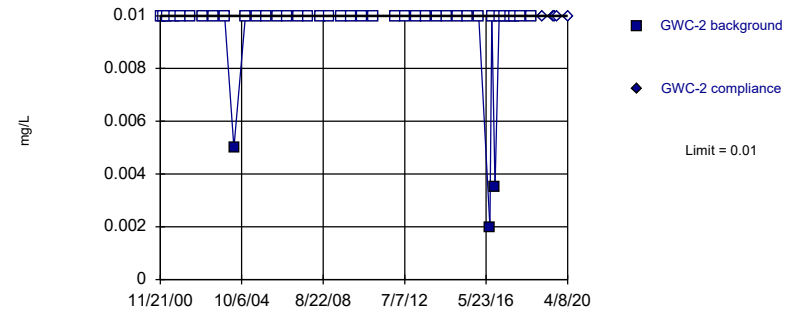


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 83.72% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric



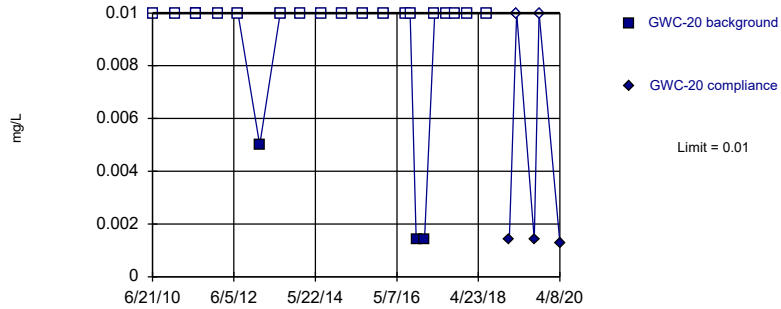
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 92.68% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



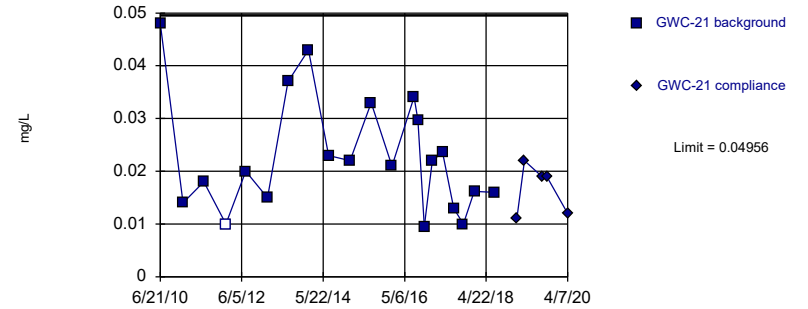
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



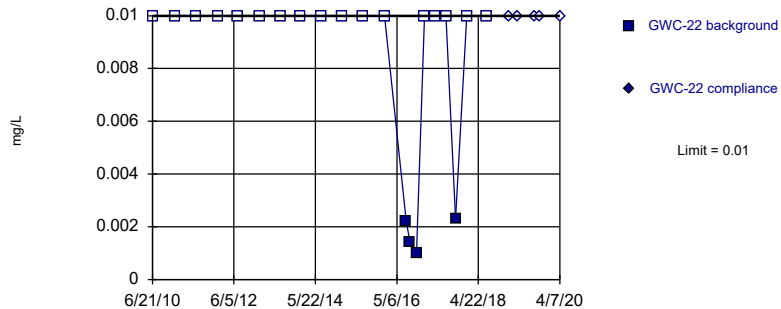
Background Data Summary: Mean=0.02277, Std. Dev.=0.01093, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.873. Kappa = 2.452 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



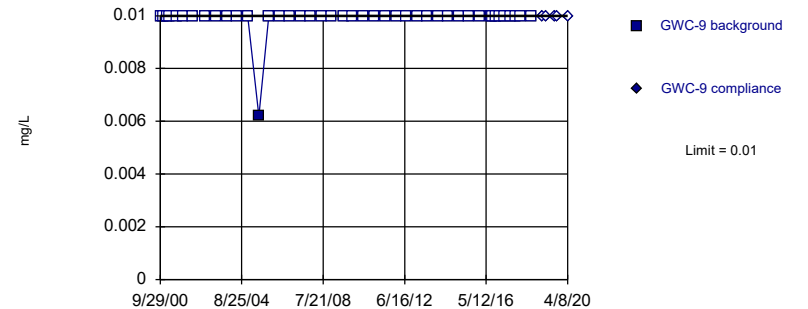
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sanitas™ v.9.6.25a Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

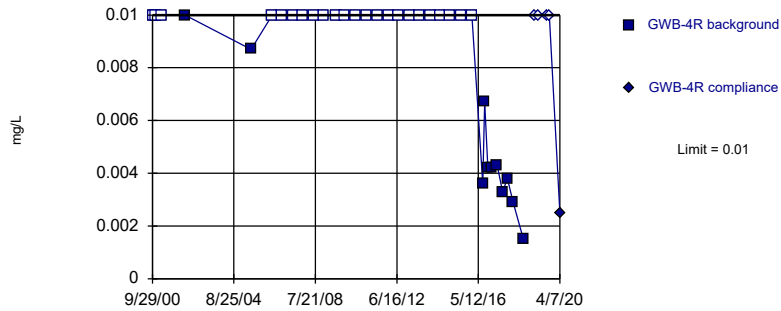


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

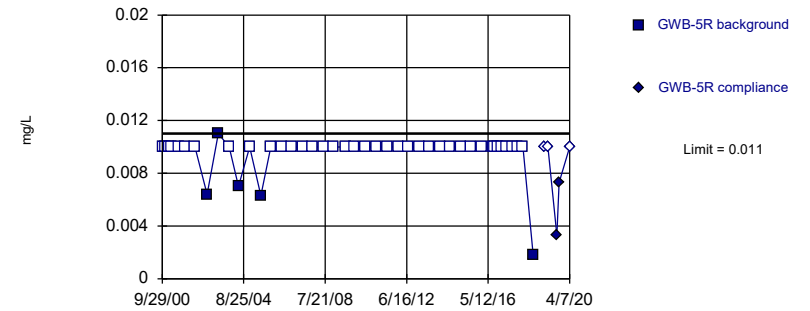


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 34 background values. 67.65% NDs. Well-constituent pair annual alpha = 0.003195. Individual comparison alpha = 0.001599 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

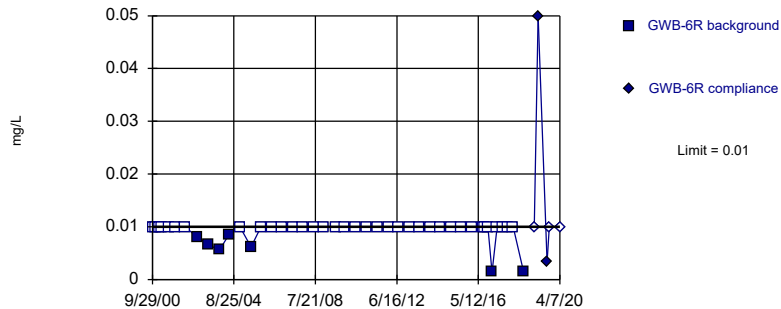


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 88.37% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

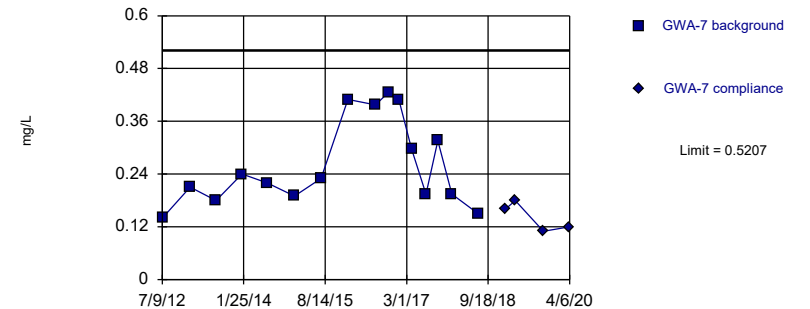


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 83.72% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Selenium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

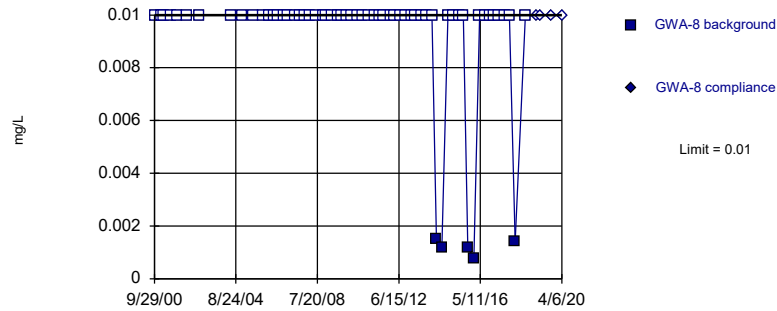


Background Data Summary: Mean=0.2627, Std. Dev.=0.09909, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8688, critical = 0.844. Kappa = 2.604 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Vanadium Analysis Run 5/24/2020 8:43 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

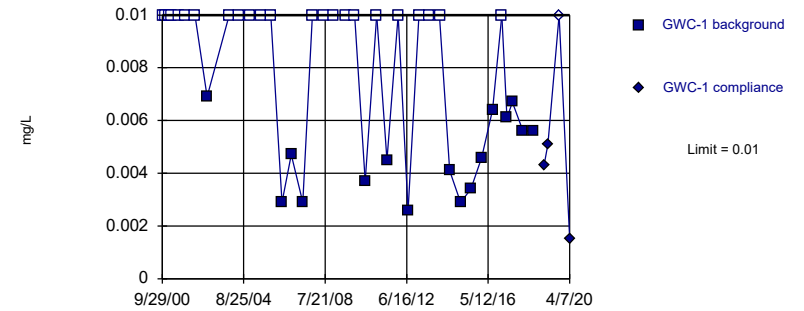


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 60 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.001056. Individual comparison alpha = 0.0005281 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

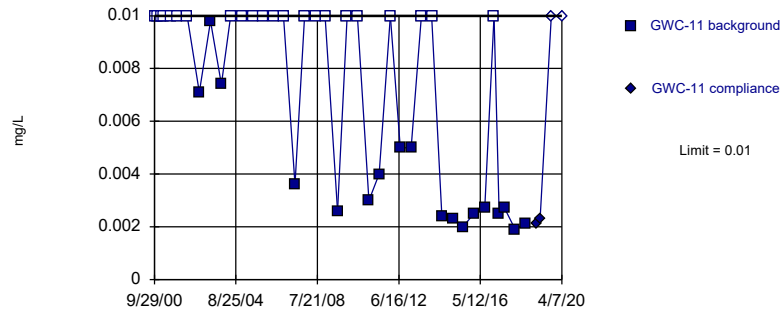


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 58.97% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

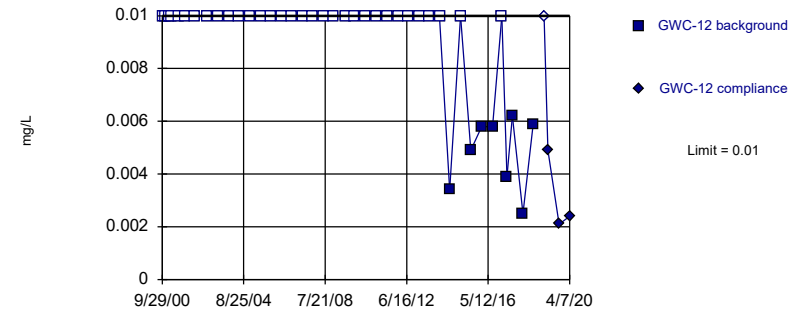


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

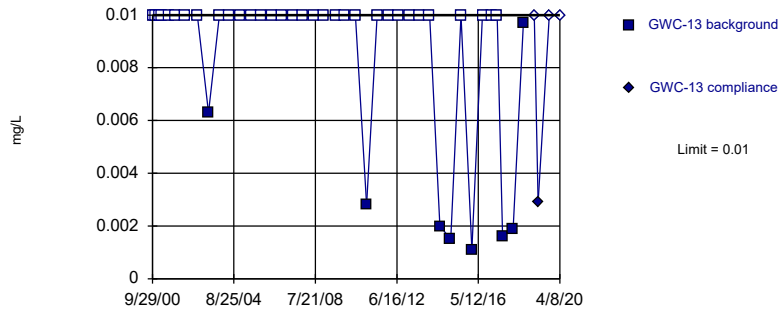


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:43 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

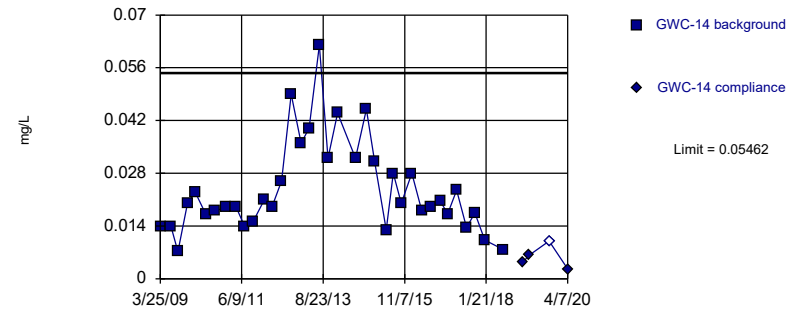


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

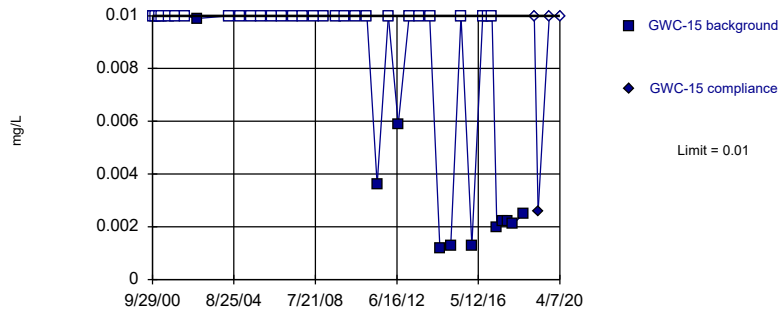


Background Data Summary (based on square root transformation): Mean=0.1496, Std. Dev.=0.03719, n=36.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9489, critical = 0.912. Kappa = 2.262 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

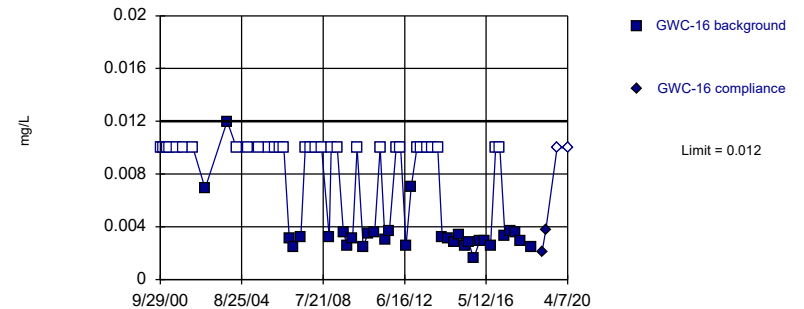


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

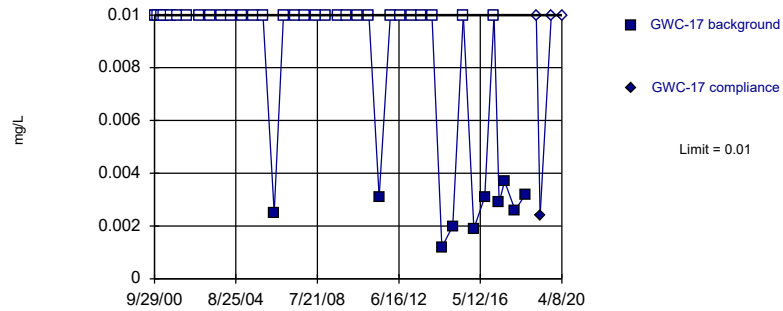


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. 50% NDs. Well-constituent pair annual alpha = 0.001001. Individual comparison alpha = 0.0005007 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

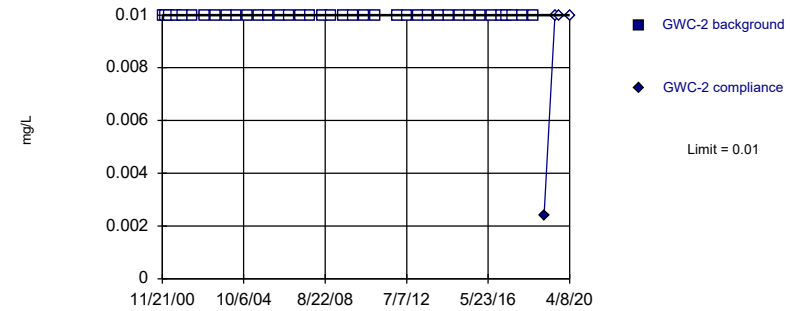


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

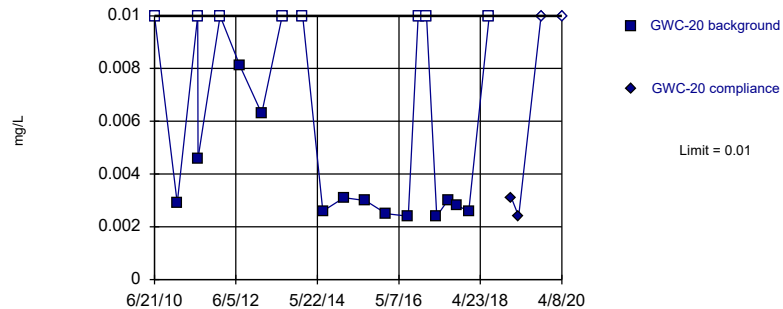


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 38) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Non-parametric

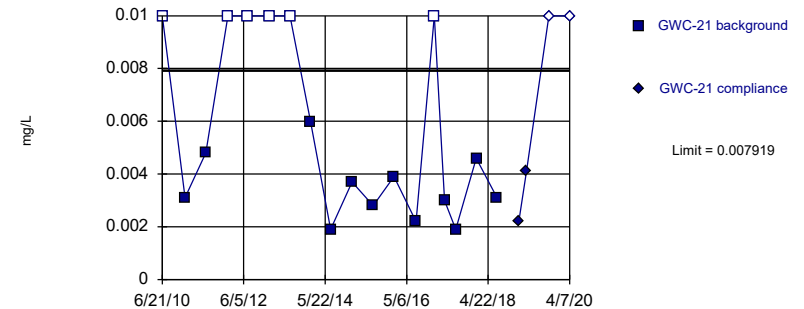


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 38.1% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
 Intrawell Parametric

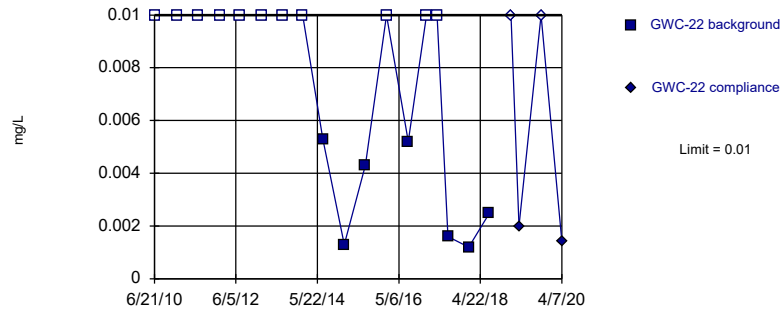


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.764, Std. Dev.=0.3646, n=18, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8708, critical = 0.858. Kappa = 2.538 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

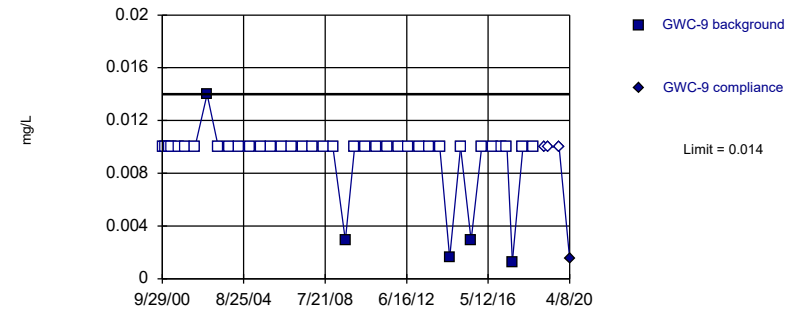


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

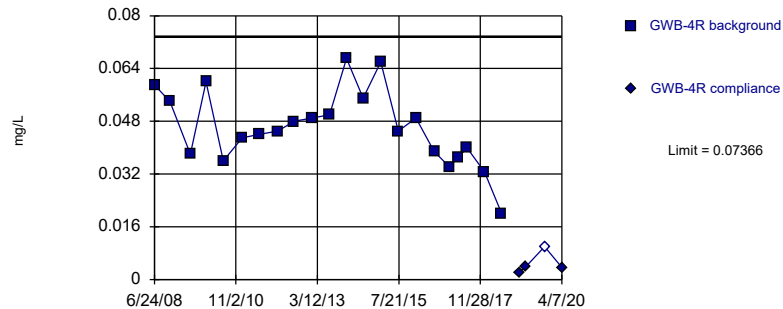


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

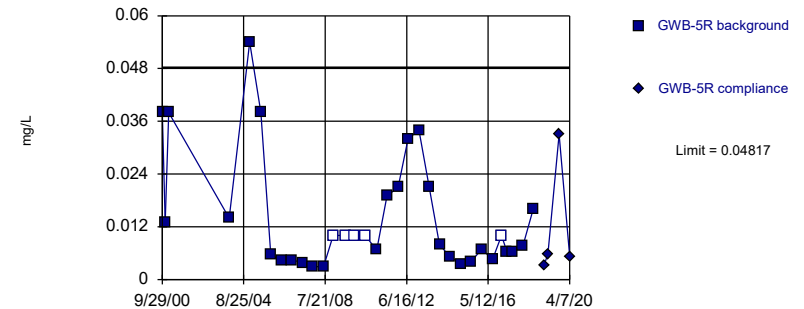


Background Data Summary: Mean=0.04594, Std. Dev.=0.0114, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9794, critical = 0.878. Kappa = 2.431 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

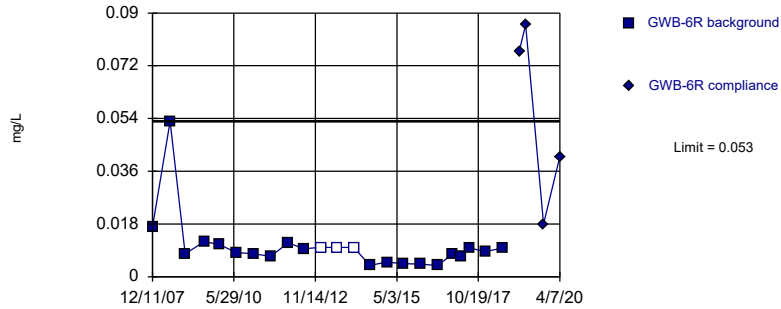


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-4.848, Std. Dev.=0.7947, n=33, 15.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.906. Kappa = 2.284 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

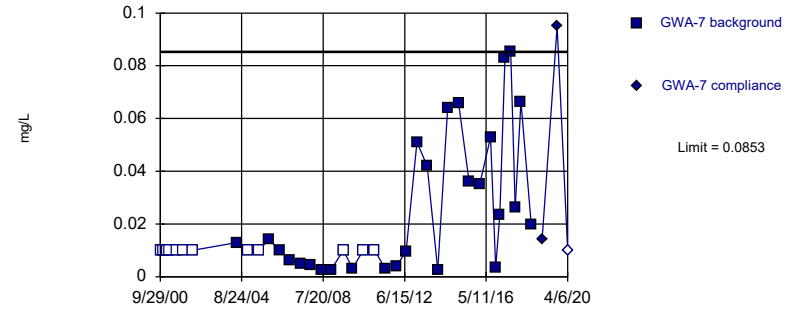


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 13.04% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Vanadium Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

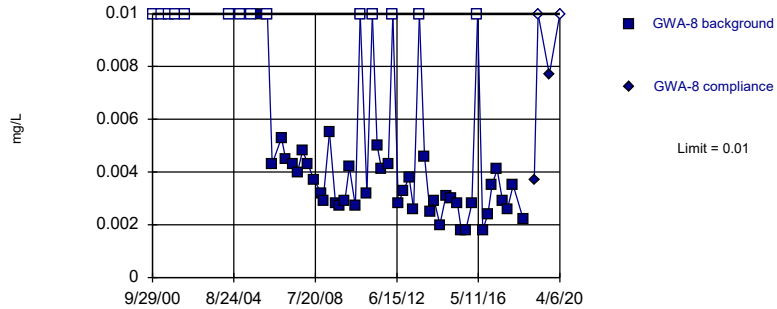


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 30.77% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

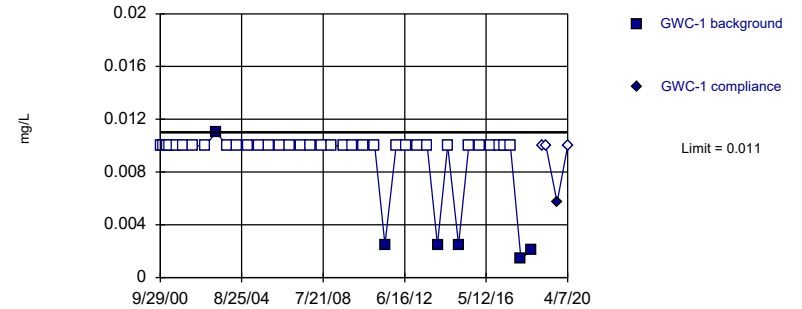


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 57 background values. 24.56% NDs. Well-constituent pair annual alpha = 0.001191. Individual comparison alpha = 0.0005955 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

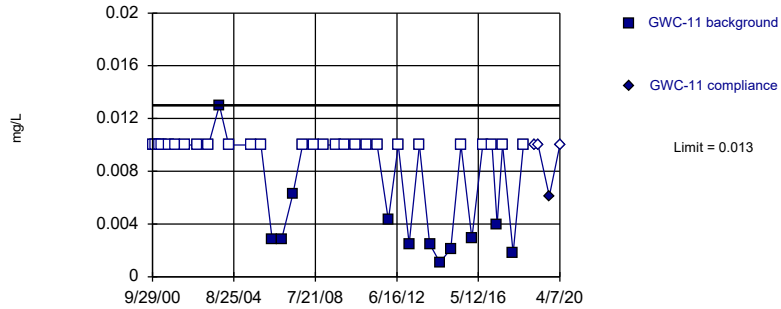


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

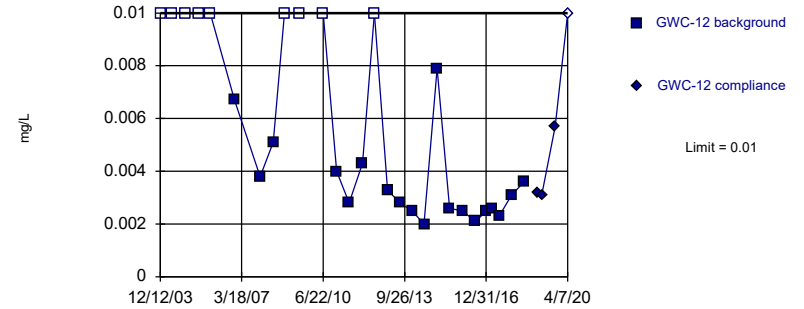


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

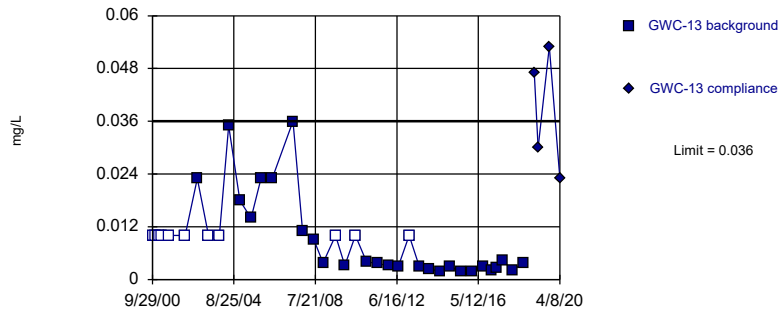


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 32.14% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

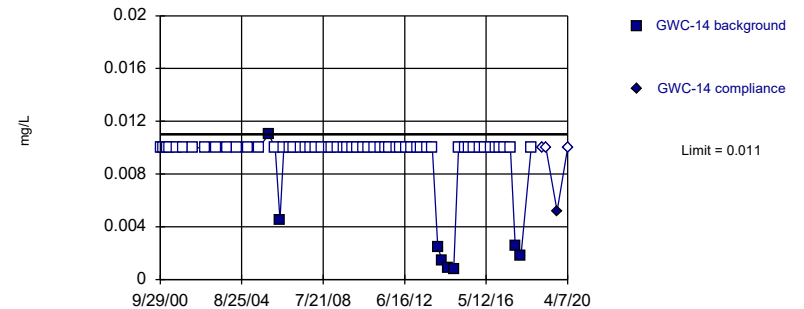


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 28.95% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

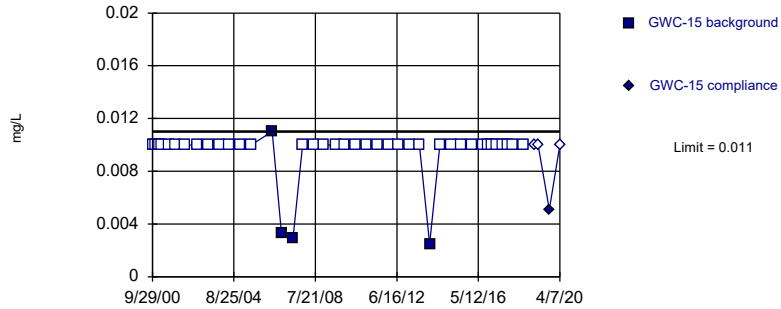


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 87.3% NDs. Well-constituent pair annual alpha = 0.0009737. Individual comparison alpha = 0.000487 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

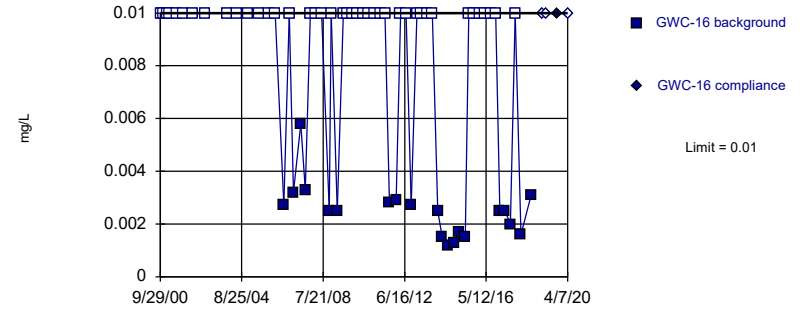


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 90.24% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

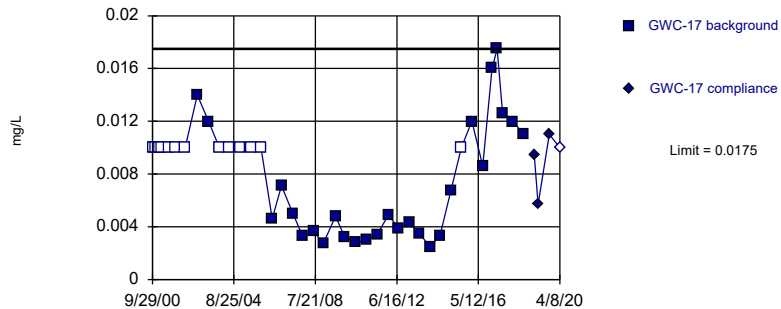


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 61 background values. 67.21% NDs. Well-constituent pair annual alpha = 0.001029. Individual comparison alpha = 0.0005144 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

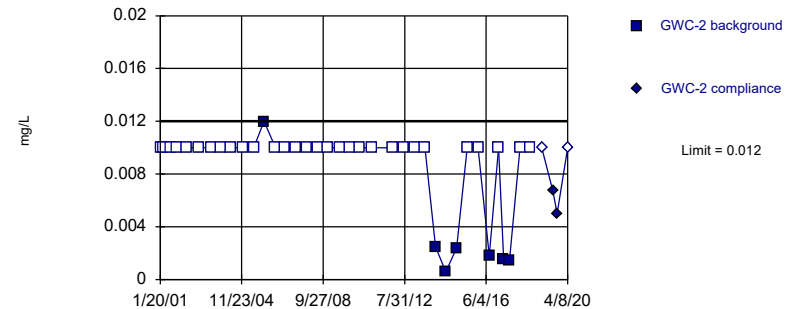


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

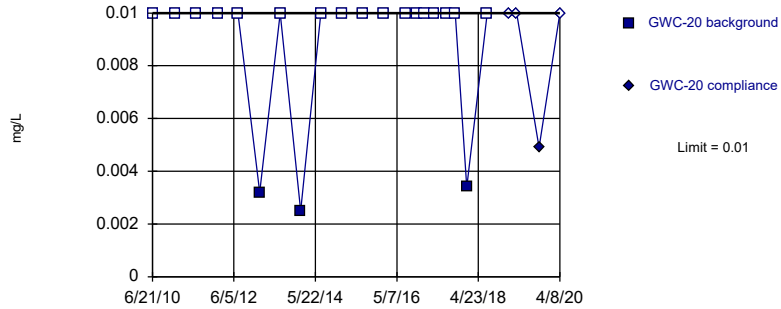


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 81.08% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

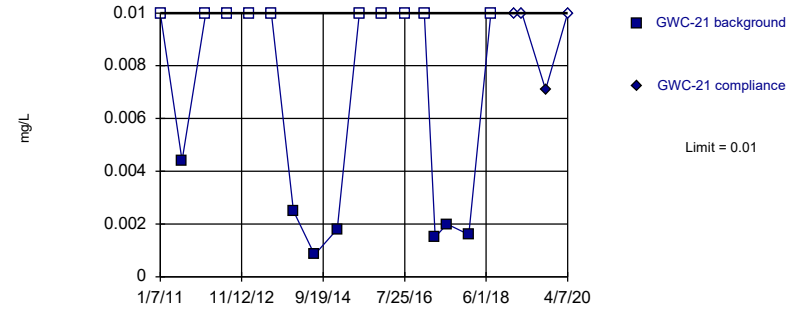


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

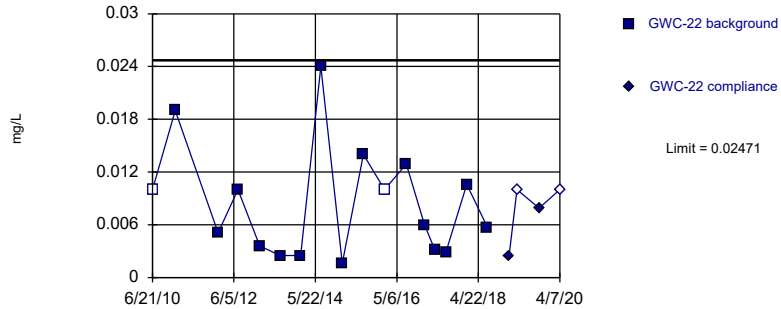


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:44 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

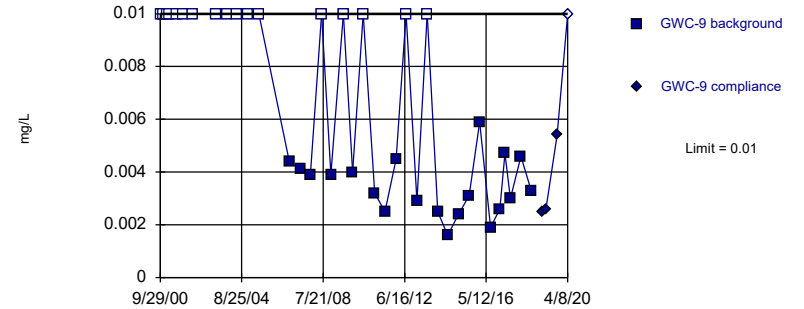


Background Data Summary: Mean=0.008441, Std. Dev.=0.00633, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8837, critical = 0.851. Kappa = 2.571 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Zinc Analysis Run 5/24/2020 8:45 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

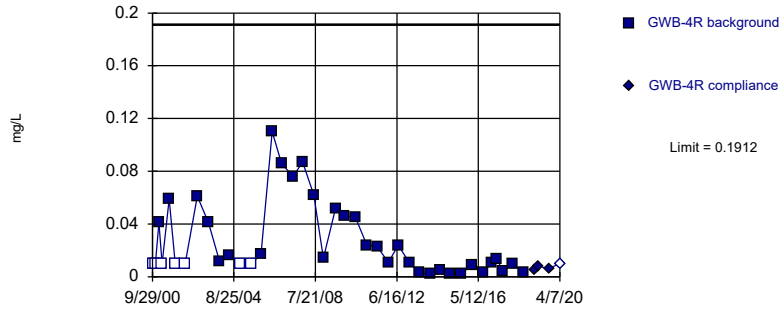


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 45.95% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:45 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

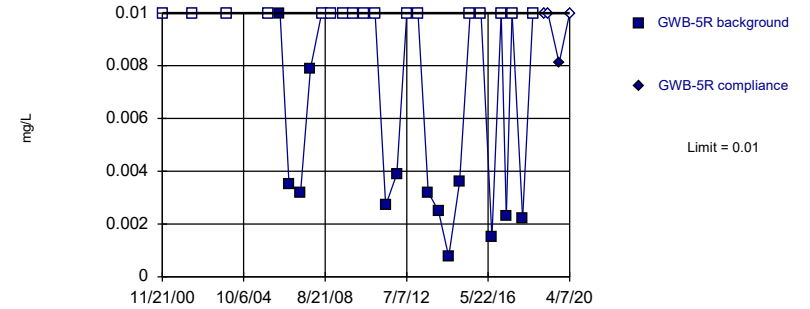


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-4.471, Std. Dev.=1.259, n=40, 17.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.919. Kappa = 2.238 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Zinc Analysis Run 5/24/2020 8:45 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Non-parametric

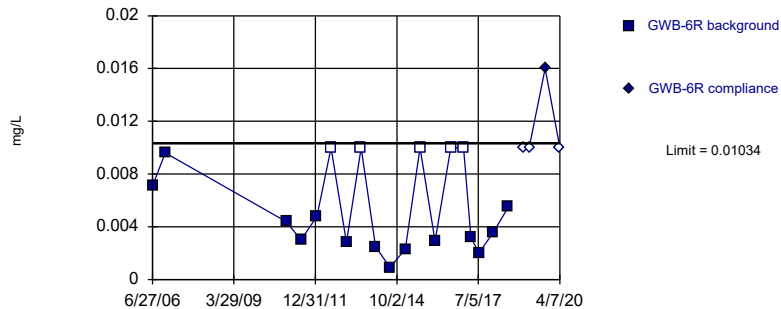


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 56.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Zinc Analysis Run 5/24/2020 8:45 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06024, Std. Dev.=0.01655, n=19, 26.32% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.883, critical = 0.863. Kappa = 2.505 (c=8, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004115.

Constituent: Zinc Analysis Run 5/24/2020 8:45 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/23/2008	<0.003	
12/4/2008	<0.003	
7/7/2009	<0.003	
12/20/2009	<0.003	
6/20/2010	<0.003	
1/7/2011	<0.003	
7/7/2011	<0.003	
1/17/2012	<0.003	
7/9/2012	<0.003	
1/18/2013	<0.003	
7/17/2013	<0.003	
1/13/2014	<0.003	
7/9/2014	0.0022 (J)	
1/13/2015	<0.003	
7/16/2015	0.0028 (J)	
1/18/2016	<0.003	
7/27/2016	<0.003	
9/1/2016	0.0017 (J)	
10/25/2016	<0.003	
1/6/2017	0.0009 (J)	
4/6/2017	<0.003	
7/13/2017	0.0013 (J)	
10/4/2017	0.0008 (J)	
1/9/2018	<0.003	
7/11/2018	<0.003	
1/16/2019		<0.003
3/25/2019		<0.003
8/26/2019		<0.003
10/8/2019		<0.003
4/6/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/23/2008	<0.003	
12/4/2008	<0.003	
7/8/2009	<0.003	
12/21/2009	<0.003	
6/20/2010	<0.003	
1/6/2011	<0.003	
7/7/2011	<0.003	
1/17/2012	<0.003	
7/9/2012	<0.003	
1/17/2013	<0.003	
7/16/2013	<0.003	
1/13/2014	<0.003	
7/8/2014	<0.003	
1/13/2015	<0.003	
7/16/2015	<0.003	
1/19/2016	<0.003	
7/26/2016	0.0005 (J)	
8/31/2016	<0.003	
10/26/2016	<0.003	
1/4/2017	<0.003	
4/6/2017	0.0006 (J)	
7/11/2017	0.0009 (J)	
10/3/2017	<0.003	
1/11/2018	0.0007 (J)	
7/11/2018	<0.003	
1/17/2019		<0.003
3/27/2019		<0.003
8/27/2019		0.00033 (J)
10/8/2019		0.00046 (J)
4/7/2020		0.00066 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/23/2008	<0.003	
12/4/2008	<0.003	
7/8/2009	<0.003	
12/21/2009	<0.003	
6/20/2010	<0.003	
1/6/2011	<0.003	
7/7/2011	<0.003	
1/17/2012	<0.003	
7/9/2012	<0.003	
1/17/2013	<0.003	
7/16/2013	<0.003	
1/13/2014	<0.003	
7/8/2014	<0.003	
1/13/2015	<0.003	
7/16/2015	<0.003	
1/18/2016	<0.003	
7/26/2016	0.0006 (J)	
8/31/2016	<0.003	
10/26/2016	<0.003	
1/5/2017	<0.003	
4/6/2017	<0.003	
7/12/2017	<0.003	
10/4/2017	<0.003	
1/10/2018	<0.003	
7/11/2018	<0.003	
1/16/2019		<0.003
3/26/2019		<0.003
8/27/2019		<0.003
10/8/2019		<0.003
4/8/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
4/4/2006	<0.003	
6/27/2006	<0.003	
8/30/2006	<0.003	
12/4/2006	<0.003	
2/15/2007	<0.003	
6/23/2007	<0.003	
9/11/2007	<0.003	
12/11/2007	<0.003	
3/11/2008	<0.003	
6/24/2008	<0.003	
11/3/2008	<0.003	
12/4/2008	<0.003	
3/25/2009	<0.003	
7/8/2009	<0.003	
9/14/2009	<0.003	
12/20/2009	<0.003	
3/4/2010	<0.003	
6/20/2010	<0.003	
9/14/2010	<0.003	
1/7/2011	<0.003	
4/15/2011	<0.003	
7/7/2011	<0.003	
9/25/2011	<0.003	
1/17/2012	<0.003	
4/4/2012	<0.003	
7/9/2012	<0.003	
10/9/2012	<0.003	
1/18/2013	<0.003	
4/5/2013	<0.003	
7/17/2013	<0.003	
10/11/2013	0.005	
1/14/2014	<0.003	
4/3/2014	<0.003	
7/9/2014	<0.003	
10/24/2014	<0.003	
1/14/2015	<0.003	
5/10/2015	<0.003	
7/17/2015	<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
10/6/2015	<0.003	
1/17/2016	<0.003	
4/26/2016	<0.003	
7/27/2016	<0.003	
9/1/2016	<0.003	
10/25/2016	<0.003	
1/5/2017	<0.003	
4/4/2017	<0.003	
7/11/2017	<0.003	
10/2/2017	<0.003	
1/9/2018	<0.003	
7/9/2018	<0.003	
1/16/2019		<0.003
3/26/2019		<0.003
8/27/2019		<0.003
10/8/2019		<0.003
4/7/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
4/4/2006	<0.003	
6/27/2006	<0.003	
8/30/2006	<0.003	
12/4/2006	0.006	
2/15/2007	<0.003	
6/23/2007	<0.003	
9/11/2007	<0.003	
12/11/2007	<0.003	
3/11/2008	<0.003	
6/24/2008	<0.003	
11/3/2008	<0.003	
12/5/2008	<0.003	
3/25/2009	<0.003	
7/8/2009	<0.003	
9/14/2009	<0.003	
12/20/2009	<0.003	
3/4/2010	<0.003	
6/21/2010	<0.003	
9/14/2010	<0.003	
1/7/2011	<0.003	
4/15/2011	<0.003	
7/7/2011	<0.003	
9/25/2011	<0.003	
1/18/2012	<0.003	
4/4/2012	<0.003	
7/10/2012	<0.003	
10/9/2012	<0.003	
1/18/2013	<0.003	
4/5/2013	<0.003	
7/17/2013	<0.003	
10/11/2013	<0.003	
1/14/2014	<0.003	
4/3/2014	<0.003	
7/9/2014	<0.003	
10/24/2014	<0.003	
1/14/2015	<0.003	
5/11/2015	<0.003	
7/16/2015	<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	<0.003	
1/17/2016	<0.003	
4/26/2016	<0.003	
7/28/2016	<0.003	
9/1/2016	<0.003	
10/25/2016	<0.003	
1/4/2017	<0.003	
4/5/2017	<0.003	
7/12/2017	<0.003	
10/3/2017	<0.003	
1/10/2018	<0.003	
7/10/2018	<0.003	
1/17/2019		<0.003
3/26/2019		<0.003
8/28/2019		<0.003
10/8/2019		<0.003
4/7/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/24/2008	<0.003	
12/4/2008	<0.003	
7/8/2009	<0.003	
12/20/2009	<0.003	
6/20/2010	<0.003	
1/6/2011	<0.003	
1/17/2012	<0.003	
7/9/2012	<0.003	
1/17/2013	<0.003	
7/17/2013	<0.003	
1/13/2014	<0.003	
7/9/2014	<0.003	
1/13/2015	<0.003	
7/16/2015	<0.003	
1/17/2016	<0.003	
7/27/2016	<0.003	
8/31/2016	<0.003	
10/26/2016	<0.003	
1/5/2017	<0.003	
4/4/2017	<0.003	
7/13/2017	<0.003	
10/3/2017	<0.003	
1/10/2018	<0.003	
7/10/2018	<0.003	
1/21/2019		<0.003
7/30/2019		<0.003
8/27/2019		<0.003
10/9/2019		<0.003
4/8/2020		0.0013 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.003	
1/7/2011	<0.003	
7/7/2011	<0.003	
7/8/2011	<0.003	
1/18/2012	<0.003	
7/10/2012	<0.003	
1/18/2013	<0.003	
7/17/2013	<0.003	
1/14/2014	<0.003	
7/10/2014	<0.003	
1/12/2015	<0.003	
7/18/2015	<0.003	
1/17/2016	<0.003	
7/28/2016	0.0019 (J)	
9/1/2016	<0.003	
10/25/2016	<0.003	
1/4/2017	<0.003	
4/4/2017	<0.003	
7/11/2017	<0.003	
10/2/2017	<0.003	
1/10/2018	<0.003	
7/9/2018	<0.003	
1/21/2019		<0.003
3/25/2019		<0.003
8/28/2019		<0.003
10/9/2019		<0.003
4/8/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.003	
1/7/2011	<0.003	
7/8/2011	<0.003	
1/18/2012	<0.003	
7/10/2012	<0.003	
1/18/2013	<0.003	
7/17/2013	<0.003	
1/14/2014	<0.003	
7/10/2014	<0.003	
1/14/2015	<0.003	
7/18/2015	<0.003	
1/18/2016	<0.003	
7/29/2016	<0.003	
8/31/2016	<0.003	
10/26/2016	<0.003	
1/4/2017	<0.003	
4/6/2017	<0.003	
7/11/2017	<0.003	
10/4/2017	<0.003	
1/11/2018	<0.003	
7/11/2018	<0.003	
1/18/2019		<0.003
3/27/2019		<0.003
8/27/2019		0.00045 (J)
10/9/2019		<0.003
4/7/2020		0.00049 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/23/2008	<0.003	
12/4/2008	<0.003	
7/8/2009	<0.003	
12/21/2009	<0.003	
6/20/2010	<0.003	
1/7/2011	<0.003	
7/8/2011	<0.003	
1/18/2012	<0.003	
7/10/2012	<0.003	
1/18/2013	<0.003	
7/17/2013	<0.003	
1/14/2014	<0.003	
7/9/2014	<0.003	
1/14/2015	<0.003	
7/17/2015	<0.003	
1/18/2016	<0.003	
7/28/2016	<0.003	
8/31/2016	<0.003	
10/27/2016	0.0016 (J)	
1/6/2017	<0.003	
4/6/2017	<0.003	
7/12/2017	<0.003	
10/4/2017	<0.003	
1/11/2018	<0.003	
7/11/2018	<0.003	
1/18/2019		<0.003
3/27/2019		<0.003
8/28/2019		<0.003
10/9/2019		<0.003
4/8/2020		0.00033 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/24/2008	<0.003	
12/5/2008	<0.003	
7/7/2009	<0.003	
12/21/2009	<0.003	
6/21/2010	<0.003	
1/7/2011	<0.003	
7/8/2011	<0.003	
1/18/2012	<0.003	
7/10/2012	<0.003	
1/18/2013	<0.003	
7/17/2013	<0.003	
1/14/2014	<0.003	
7/9/2014	0.002 (J)	
1/12/2015	<0.003	
7/16/2015	0.0021 (J)	
1/18/2016	<0.003	
7/29/2016	0.0003 (J)	
9/1/2016	<0.003	
10/26/2016	<0.003	
1/6/2017	<0.003	
4/4/2017	<0.003	
7/12/2017	<0.003	
10/4/2017	<0.003	
1/11/2018	<0.003	
7/11/2018	<0.003	
1/16/2019		<0.003
3/25/2019		<0.003
8/27/2019		<0.003
10/9/2019		<0.003
4/7/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	<0.003	
11/21/2000	<0.003	
1/20/2001	<0.003	
3/14/2001	<0.003	
7/16/2001	<0.003	
11/1/2001	<0.003	
4/25/2002	<0.003	
11/20/2002	<0.003	
6/6/2003	<0.003	
12/12/2003	<0.003	
5/26/2004	<0.003	
12/7/2004	<0.003	
6/21/2005	<0.003	
12/12/2005	<0.003	
6/27/2006	<0.003	
12/4/2006	<0.003	
6/23/2007	<0.003	
12/11/2007	<0.003	
6/24/2008	<0.003	
12/5/2008	<0.003	
7/7/2009	<0.003	
12/21/2009	<0.003	
6/20/2010	<0.003	
1/6/2011	<0.003	
7/7/2011	<0.003	
1/17/2012	<0.003	
7/9/2012	<0.003	
1/17/2013	<0.003	
7/16/2013	<0.003	
1/13/2014	<0.003	
7/9/2014	<0.003	
1/13/2015	<0.003	
7/16/2015	<0.003	
1/18/2016	<0.003	
7/27/2016	<0.003	
8/30/2016	<0.003	
10/26/2016	<0.003	
1/3/2017	<0.003	
4/6/2017	<0.003	
7/12/2017	<0.003	
10/3/2017	<0.003	
1/10/2018	<0.003	
7/10/2018	<0.003	
1/16/2019		<0.003
3/26/2019		<0.003
8/28/2019		0.00054 (J)
10/9/2019		<0.003
4/7/2020		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
6/6/2003	0.02 (o)	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/7/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	0.0052	
1/18/2013	0.0087	
7/17/2013	0.0084	
1/13/2014	0.009	
7/9/2014	0.008	
1/13/2015	0.0077	
7/16/2015	0.0077	
1/18/2016	0.014	
7/27/2016	0.0111	
9/1/2016	0.0287 (o)	
10/25/2016	0.0069	
1/6/2017	0.0097	
4/6/2017	0.0104	
7/13/2017	0.0064	
10/4/2017	0.0078	
1/9/2018	0.0091 (J)	
7/11/2018	<0.025 (o)	
1/16/2019		<0.025 (o)
3/25/2019		0.0029 (J)
8/26/2019		0.0041 (J)
10/8/2019		0.003 (J)
4/6/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
4/4/2006	<0.005	
6/27/2006	<0.005	
8/30/2006	<0.005	
12/4/2006	<0.005	
2/15/2007	<0.005	
6/23/2007	<0.005	
9/11/2007	<0.005	
12/11/2007	<0.005	
3/11/2008	<0.005	
6/23/2008	<0.005	
11/3/2008	<0.005	
12/4/2008	<0.005	
3/25/2009	<0.005	
7/7/2009	<0.005	
9/14/2009	<0.005	
12/20/2009	<0.005	
3/4/2010	<0.005	
6/20/2010	<0.005	
9/14/2010	<0.005	
1/7/2011	<0.005	
4/15/2011	<0.005	
7/7/2011	<0.005	
9/25/2011	<0.005	
1/17/2012	<0.005	
4/4/2012	<0.005	
7/10/2012	<0.005	
10/9/2012	<0.005	
1/18/2013	<0.005	
4/5/2013	<0.005	
7/17/2013	<0.005	
10/11/2013	<0.005	
1/14/2014	<0.005	
4/3/2014	<0.005	
7/9/2014	<0.005	
10/24/2014	<0.005	
1/14/2015	<0.005	
5/10/2015	<0.005	
7/17/2015	<0.005	
10/6/2015	<0.005	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	<0.005	
4/26/2016	0.0011 (J)	
7/28/2016	<0.005	
8/30/2016	<0.005	
10/24/2016	<0.005	
1/3/2017	<0.005	
4/3/2017	0.0006 (J)	
7/11/2017	0.0006 (J)	
10/2/2017	0.0006 (J)	
1/9/2018	0.0009 (J)	
7/9/2018	<0.005	
1/16/2019		<0.005
3/25/2019		<0.005
8/26/2019		<0.005
10/7/2019		<0.005
4/6/2020		0.00045 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	0.03 (o)	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	0.0071	
7/9/2012	0.0076	
1/17/2013	0.0086	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	0.0022 (J)	
1/13/2015	<0.005	
7/16/2015	0.0037 (J)	
1/17/2016	0.024 (o)	
7/27/2016	0.0046 (J)	
8/30/2016	0.0023 (J)	
10/25/2016	0.0035 (J)	
1/4/2017	0.0018 (J)	
4/4/2017	0.0015 (J)	
7/12/2017	0.0015 (J)	
10/3/2017	0.0013 (J)	
1/10/2018	0.0023 (J)	
7/10/2018	0.0031 (J)	
1/16/2019		0.0023 (J)
3/26/2019		0.0032 (J)
8/27/2019		0.0022 (J)
10/9/2019		0.0042 (J)
4/7/2020		0.027

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/8/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/27/2016	<0.005	
8/31/2016	<0.005	
10/26/2016	<0.005	
1/4/2017	<0.005	
4/5/2017	0.0006 (J)	
7/10/2017	0.0008 (J)	
10/4/2017	0.0009 (J)	
1/11/2018	<0.005	
7/11/2018	<0.005	
1/17/2019		<0.005
3/27/2019		<0.005
8/27/2019		<0.005
10/9/2019		<0.005
4/7/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	0.0064	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/8/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/26/2016	<0.005	
8/31/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	<0.005	
4/6/2017	<0.005	
7/12/2017	<0.005	
10/4/2017	<0.005	
1/10/2018	0.0006 (J)	
7/11/2018	<0.005	
1/16/2019		<0.005
3/26/2019		0.00058 (J)
8/27/2019		<0.005
10/8/2019		<0.005
4/8/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.011	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
4/4/2006	<0.005	
6/27/2006	<0.005	
8/30/2006	<0.005	
12/4/2006	<0.005	
2/15/2007	<0.005	
6/23/2007	<0.005	
9/11/2007	<0.005	
12/11/2007	<0.005	
3/11/2008	<0.005	
6/24/2008	<0.005	
11/3/2008	<0.005	
12/4/2008	<0.005	
3/25/2009	<0.005	
7/8/2009	<0.005	
9/14/2009	<0.005	
12/20/2009	<0.005	
3/4/2010	<0.005	
6/20/2010	<0.005	
9/14/2010	<0.005	
1/7/2011	<0.005	
4/15/2011	<0.005	
7/7/2011	<0.005	
9/25/2011	<0.005	
1/17/2012	<0.005	
4/4/2012	<0.005	
7/9/2012	<0.005	
10/9/2012	<0.005	
1/18/2013	<0.005	
4/5/2013	<0.005	
7/17/2013	<0.005	
10/11/2013	0.005	
1/14/2014	<0.005	
4/3/2014	<0.005	
7/9/2014	<0.005	
10/24/2014	<0.005	
1/14/2015	<0.005	
5/10/2015	<0.005	
7/17/2015	<0.005	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
10/6/2015	<0.005	
1/17/2016	0.002 (J)	
4/26/2016	0.00183 (J)	
7/27/2016	0.0021 (J)	
9/1/2016	0.0024 (J)	
10/25/2016	<0.005	
1/5/2017	0.0024 (J)	
4/4/2017	0.003 (J)	
7/11/2017	0.0019 (J)	
10/2/2017	0.0026 (J)	
1/9/2018	0.0021 (J)	
7/9/2018	0.0019 (J)	
1/16/2019		0.0016 (J)
3/26/2019		0.0023 (J)
8/27/2019		0.0017 (J)
10/8/2019		0.0017 (J)
4/7/2020		0.0018 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/8/2009	0.0052	
12/20/2009	<0.005	
6/20/2010	0.0068	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/18/2013	0.0089	
7/17/2013	0.011	
1/13/2014	0.017	
7/9/2014	0.014	
1/13/2015	0.011	
7/16/2015	0.02	
1/17/2016	0.014	
7/27/2016	0.0303	
9/1/2016	0.0533	
10/25/2016	0.0551	
1/5/2017	0.0437	
4/3/2017	0.0713	
7/11/2017	0.0745	
10/2/2017	0.0723	
1/9/2018	0.0731	
7/10/2018	0.09	
1/17/2019		0.13
3/26/2019		0.1
8/27/2019		0.17
10/8/2019		0.13
4/7/2020		0.24

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	0.094	
11/21/2000	0.059	
1/20/2001	0.087	
3/14/2001	0.075	
7/16/2001	0.11	
11/1/2001	0.098	
4/25/2002	0.071	
11/20/2002	0.15	
6/6/2003	1.2 (o)	
12/12/2003	0.27 (o)	
5/26/2004	0.12	
12/7/2004	0.098	
6/21/2005	0.065	
12/12/2005	0.081	
4/4/2006	0.077	
6/27/2006	0.071	
8/30/2006	0.08	
12/4/2006	0.085	
2/15/2007	0.09	
6/23/2007	0.12	
9/11/2007	0.088	
12/11/2007	0.088	
3/11/2008	0.071	
6/24/2008	0.097	
11/3/2008	0.089	
12/5/2008	0.092	
3/25/2009	0.095	
7/8/2009	0.11	
9/14/2009	0.099	
12/20/2009	0.1	
3/4/2010	0.074	
6/21/2010	0.056	
9/14/2010	0.067	
1/7/2011	0.066	
4/15/2011	0.08	
7/7/2011	0.054	
9/25/2011	0.085	
1/18/2012	0.089	
4/4/2012	0.0473	
7/10/2012	0.07	
10/9/2012	0.088	
1/18/2013	0.063	
4/5/2013	0.06	
7/17/2013	0.063	
10/11/2013	0.059	
1/14/2014	0.077	
4/3/2014	0.091	
7/9/2014	0.08	
10/24/2014	0.073	
1/14/2015	0.079	
5/11/2015	0.058	
7/16/2015	0.068	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	0.078	
1/17/2016	0.089	
4/26/2016	0.0731	
7/28/2016	0.0627	
9/1/2016	0.0551	
10/25/2016	0.0466	
1/4/2017	0.0444	
4/5/2017	0.0591	
7/12/2017	0.0776	
10/3/2017	0.0813	
1/10/2018	0.085	
7/10/2018	0.067	
1/17/2019		0.079
3/26/2019		0.089
8/28/2019		0.091
10/8/2019		0.088
4/7/2020		0.091

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/21/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/18/2015	<0.005	
1/18/2016	<0.005	
7/29/2016	0.0009 (J)	
9/1/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	<0.005	
4/5/2017	0.0011 (J)	
7/13/2017	0.0016 (J)	
10/4/2017	0.0019 (J)	
1/11/2018	0.0015 (J)	
7/11/2018	0.00082 (J)	
1/16/2019		<0.005
3/26/2019		0.0015 (J)
8/28/2019		0.0011 (J)
10/9/2019		0.0011 (J)
4/8/2020		0.0013 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/17/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/17/2016	<0.005	
7/27/2016	<0.005	
8/31/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	<0.005	
4/4/2017	<0.005	
7/13/2017	<0.005	
10/3/2017	<0.005	
1/10/2018	0.0006 (J)	
7/10/2018	<0.005	
1/21/2019		<0.005
7/30/2019		0.00039 (J)
8/27/2019		<0.005
10/9/2019		<0.005
4/8/2020		0.00094 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	0.29	
1/7/2011	0.2	
7/7/2011	<0.005	
7/8/2011	0.19	
1/18/2012	0.058	
7/10/2012	0.18	
1/18/2013	0.22	
7/17/2013	0.45	
1/14/2014	0.52	
7/10/2014	0.4	
1/12/2015	0.43	
7/18/2015	0.26	
1/17/2016	0.34	
7/28/2016	0.209	
9/1/2016	0.215	
10/25/2016	0.307	
1/4/2017	0.311	
4/4/2017	0.317	
7/11/2017	0.299	
10/2/2017	0.216	
1/10/2018	0.347	
7/9/2018	0.37	
1/21/2019		0.44
3/25/2019		0.41
8/28/2019		0.43
10/9/2019		0.35
4/8/2020		0.33

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	0.013 (o)	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	0.0061 (o)	
7/17/2013	<0.005	
1/14/2014	0.006 (o)	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/17/2015	<0.005	
1/17/2016	0.0065 (o)	
7/28/2016	<0.005	
9/1/2016	0.0039 (J)	
10/25/2016	<0.005	
1/4/2017	<0.005	
4/4/2017	0.0031 (J)	
7/13/2017	<0.005	
10/3/2017	<0.005	
1/9/2018	0.0033 (J)	
7/10/2018	0.0027 (J)	
1/17/2019		0.0022 (J)
3/26/2019		0.0045 (J)
8/28/2019		0.002 (J)
10/8/2019		0.0028 (J)
4/7/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/10/2014	0.0027 (J)	
1/14/2015	<0.005	
7/18/2015	<0.005	
1/18/2016	<0.005	
7/29/2016	0.002 (J)	
8/31/2016	0.0017 (J)	
10/26/2016	<0.005	
1/4/2017	<0.005	
4/6/2017	0.0006 (J)	
7/11/2017	0.0012 (J)	
10/4/2017	0.0025 (J)	
1/11/2018	0.0006 (J)	
7/11/2018	0.0011 (J)	
1/18/2019		<0.005
3/27/2019		<0.005
8/27/2019		0.00044 (J)
10/9/2019		<0.005
4/7/2020		0.00043 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/17/2015	<0.005	
1/18/2016	<0.005	
7/28/2016	<0.005	
8/31/2016	<0.005	
10/27/2016	<0.005	
1/6/2017	<0.005	
4/6/2017	<0.005	
7/12/2017	<0.005	
10/4/2017	<0.005	
1/11/2018	<0.005	
7/11/2018	<0.005	
1/18/2019		<0.005
3/27/2019		<0.005
8/28/2019		<0.005
10/9/2019		<0.005
4/8/2020		0.00084 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	0.01 (o)	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.0096 (o)	
6/6/2003	0.0076	
12/12/2003	0.0058	
5/26/2004	0.0068	
12/7/2004	0.0066	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	0.005	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/21/2009	<0.005	
6/21/2010	0.018 (o)	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	0.0052	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	0.0023 (J)	
1/12/2015	0.0028 (J)	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/29/2016	0.0014 (J)	
9/1/2016	0.0033 (J)	
10/26/2016	0.0016 (J)	
1/6/2017	<0.005	
4/4/2017	0.0021 (J)	
7/12/2017	0.0015 (J)	
10/4/2017	0.0018 (J)	
1/11/2018	0.0015 (J)	
7/11/2018	0.00095 (J)	
1/16/2019		0.0024 (J)
3/25/2019		0.0029 (J)
8/27/2019		0.0023 (J)
10/9/2019		0.0024 (J)
4/7/2020		0.0027 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	0.014	
11/1/2001	0.023	
4/25/2002	<0.005	
11/20/2002	0.022	
6/6/2003	0.07 (o)	
12/12/2003	<0.005	
5/26/2004	0.0074	
12/7/2004	0.017	
6/21/2005	0.013	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/27/2016	0.0008 (J)	
8/30/2016	<0.005	
10/26/2016	<0.005	
1/3/2017	<0.005	
4/6/2017	0.0006 (J)	
7/12/2017	0.0009 (J)	
10/3/2017	0.001 (J)	
1/10/2018	0.0012 (J)	
7/10/2018	0.0016 (J)	
1/16/2019		0.0011 (J)
3/26/2019		0.0014 (J)
8/28/2019		0.0023 (J)
10/9/2019		0.0053 (J)
4/7/2020		0.0011 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	0.014	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.014	
6/6/2003	0.014	
12/12/2003	<0.005	
5/26/2004	0.0082	
12/7/2004	0.0062	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	0.0053	
12/11/2007	0.0057	
6/24/2008	0.012	
12/5/2008	0.0064	
7/7/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	0.017	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/17/2015	<0.005	
1/18/2016	<0.005	
7/28/2016	0.0009 (J)	
8/30/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	0.0021 (J)	
4/6/2017	0.0011 (J)	
7/12/2017	0.0014 (J)	
10/3/2017	0.0014 (J)	
1/9/2018	0.0017 (J)	
7/10/2018	0.00063 (J)	
1/16/2019		<0.005
3/26/2019		0.0029 (J)
8/27/2019		0.0035 (J)
10/9/2019		0.0018 (J)
4/7/2020		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	0.11	
11/21/2000	0.12	
1/20/2001	0.11	
3/14/2001	0.11	
7/16/2001	0.11	
11/1/2001	0.11	
4/25/2002	0.058	
6/6/2003	0.19	
12/12/2003	0.1	
5/26/2004	0.084	
12/7/2004	0.094	
6/21/2005	0.089	
12/12/2005	0.089	
6/27/2006	0.096	
12/4/2006	0.092	
6/23/2007	0.08	
12/11/2007	0.067	
6/23/2008	0.056	
12/4/2008	0.054	
7/7/2009	0.034	
12/20/2009	0.034	
6/20/2010	0.062	
1/7/2011	0.039	
7/7/2011	0.036	
1/17/2012	0.041	
7/9/2012	0.15	
1/18/2013	0.15	
7/17/2013	0.13	
1/13/2014	0.16	
7/9/2014	0.11	
1/13/2015	0.083	
7/16/2015	0.094	
1/18/2016	0.22	
7/27/2016	0.192	
9/1/2016	0.415 (o)	
10/25/2016	0.173	
1/6/2017	0.167	
4/6/2017	0.136	
7/13/2017	0.0891	
10/4/2017	0.113	
1/9/2018	0.0901	
7/11/2018	0.065	
1/16/2019		0.062
3/25/2019		0.054
8/26/2019		0.11
10/8/2019		0.1
4/6/2020		0.072

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	0.16 (o)	
1/20/2001	0.18 (o)	
3/14/2001	0.14	
7/16/2001	0.14	
11/1/2001	0.14	
4/25/2002	0.088	
6/6/2003	0.14	
12/12/2003	0.13	
5/26/2004	0.09	
12/7/2004	0.11	
6/21/2005	0.084	
12/12/2005	0.1	
4/4/2006	0.089	
6/27/2006	0.1	
8/30/2006	0.12	
12/4/2006	0.086	
2/15/2007	0.088	
6/23/2007	0.089	
9/11/2007	0.092	
12/11/2007	0.077	
3/11/2008	0.082	
6/23/2008	0.086	
11/3/2008	0.088	
12/4/2008	0.081	
3/25/2009	0.069	
7/7/2009	0.078	
9/14/2009	0.079	
12/20/2009	0.081	
3/4/2010	0.065	
6/20/2010	0.078	
9/14/2010	0.076	
1/7/2011	0.074	
4/15/2011	0.065	
7/7/2011	0.081	
9/25/2011	0.078	
1/17/2012	0.082	
4/4/2012	0.0861	
7/10/2012	0.082	
10/9/2012	0.09	
1/18/2013	0.083	
4/5/2013	0.078	
7/17/2013	0.083	
10/11/2013	0.078	
1/14/2014	0.081	
4/3/2014	0.077	
7/9/2014	0.073	
10/24/2014	0.087	
1/14/2015	0.079	
5/10/2015	0.076	
7/17/2015	0.061	
10/6/2015	0.067	
1/18/2016	0.068	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
4/26/2016	0.0596	
7/28/2016	0.0701	
8/30/2016	0.0687	
10/24/2016	0.07	
1/3/2017	0.061	
4/3/2017	0.0612	
7/11/2017	0.0624	
10/2/2017	0.0618	
1/9/2018	0.0574	
7/9/2018	0.056	
1/16/2019		0.062
3/25/2019		0.064
8/26/2019		0.065
10/7/2019		0.069
4/6/2020		0.057

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	0.044	
11/21/2000	0.047	
1/20/2001	0.051	
3/14/2001	0.048	
7/16/2001	0.054	
11/1/2001	0.063	
4/25/2002	0.032	
6/6/2003	0.046	
12/12/2003	0.034	
5/26/2004	0.035	
12/7/2004	0.024	
6/21/2005	0.039	
12/12/2005	0.042	
6/27/2006	0.033	
12/4/2006	0.04	
6/23/2007	0.044	
12/11/2007	0.049	
6/24/2008	0.038	
12/5/2008	0.06	
7/7/2009	0.043	
12/20/2009	0.065	
6/20/2010	0.095	
1/6/2011	0.093	
7/7/2011	0.095	
1/17/2012	0.1	
7/9/2012	0.11	
1/17/2013	0.12	
7/16/2013	0.081	
1/13/2014	0.096	
7/9/2014	0.066	
1/13/2015	0.068	
7/16/2015	0.07	
1/17/2016	0.062	
7/27/2016	0.0417	
8/30/2016	0.0545	
10/25/2016	0.0504	
1/4/2017	0.0534	
4/4/2017	0.0549	
7/12/2017	0.0614	
10/3/2017	0.0436	
1/10/2018	0.053	
7/10/2018	0.059	
1/16/2019		0.054
3/26/2019		0.055
8/27/2019		0.054
10/9/2019		0.058
4/7/2020		0.05

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	0.1	
11/21/2000	0.082	
1/20/2001	0.083	
3/14/2001	0.075	
7/16/2001	0.091	
11/1/2001	0.068	
4/25/2002	0.066	
6/6/2003	0.085	
12/12/2003	0.072	
5/26/2004	0.055	
12/7/2004	0.066	
6/21/2005	0.033	
12/12/2005	0.034	
6/27/2006	0.029	
12/4/2006	0.02	
6/23/2007	0.017	
12/11/2007	0.013	
6/23/2008	0.012	
12/4/2008	0.011	
7/8/2009	0.012	
12/21/2009	0.011	
6/20/2010	0.0089	
1/6/2011	0.014	
7/7/2011	0.018	
1/17/2012	0.23	
7/9/2012	0.17	
1/17/2013	0.2	
7/16/2013	0.11	
1/13/2014	0.083	
7/8/2014	0.066	
1/13/2015	0.053	
7/16/2015	0.052	
1/19/2016	0.048	
7/26/2016	0.051	
8/31/2016	0.0565	
10/26/2016	0.0591	
1/4/2017	0.0598	
4/6/2017	0.0813	
7/11/2017	0.0302	
10/3/2017	0.103	
1/11/2018	0.166	
7/11/2018	0.12	
1/17/2019		0.039
3/27/2019		0.053
8/27/2019		0.12
10/8/2019		0.13
4/7/2020		0.14

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	0.075	
11/21/2000	0.072	
1/20/2001	0.086	
3/14/2001	0.088	
7/16/2001	0.084	
11/1/2001	0.13	
4/25/2002	0.24 (o)	
6/6/2003	0.28 (o)	
12/12/2003	0.27 (o)	
5/26/2004	0.31 (o)	
12/7/2004	0.46 (o)	
6/21/2005	0.053	
12/12/2005	0.1	
6/27/2006	0.098	
12/4/2006	0.068	
6/23/2007	0.042	
12/11/2007	0.04	
6/23/2008	0.041	
12/4/2008	0.035	
7/8/2009	0.036	
12/21/2009	0.028	
6/20/2010	0.025	
1/7/2011	0.037	
7/7/2011	0.039	
1/17/2012	0.045	
7/9/2012	0.032	
1/17/2013	0.033	
7/16/2013	0.027	
1/13/2014	0.027	
7/8/2014	0.037	
1/13/2015	0.023	
7/16/2015	0.03	
1/18/2016	0.032	
7/27/2016	0.0191	
8/31/2016	0.019	
10/26/2016	0.0197	
1/4/2017	0.0174	
4/5/2017	0.0174	
7/10/2017	0.0172	
10/4/2017	0.0162	
1/11/2018	0.018	
7/11/2018	0.014	
1/17/2019		0.017
3/27/2019		0.017
8/27/2019		0.017
10/9/2019		0.019
4/7/2020		0.017

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.005	
11/21/2000	0.01	
1/20/2001	<0.005	
3/14/2001	0.01	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
6/6/2003	0.028	
12/12/2003	0.019	
5/26/2004	<0.005	
12/7/2004	0.009	
6/21/2005	0.0089	
12/12/2005	0.026	
6/27/2006	0.029	
12/4/2006	0.017	
6/23/2007	0.014	
12/11/2007	0.011	
6/23/2008	0.018	
12/4/2008	0.019	
7/8/2009	0.011	
12/21/2009	0.01	
6/20/2010	0.0081	
1/6/2011	0.012	
7/7/2011	0.015	
1/17/2012	0.0086	
7/9/2012	0.01	
1/17/2013	0.014	
7/16/2013	0.012	
1/13/2014	0.015	
7/8/2014	0.017	
1/13/2015	0.019	
7/16/2015	0.022	
1/18/2016	0.026	
7/26/2016	0.0236	
8/31/2016	0.0273	
10/26/2016	0.0238	
1/5/2017	0.0218	
4/6/2017	0.0204	
7/12/2017	0.0161	
10/4/2017	0.0185	
1/10/2018	0.0166	
7/11/2018	0.019	
1/16/2019		0.019
3/26/2019		0.026
8/27/2019		0.024
10/8/2019		0.024
4/8/2020		0.027

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	0.11	
11/21/2000	0.15	
1/20/2001	0.1	
3/14/2001	0.095	
7/16/2001	0.28 (o)	
11/1/2001	0.16	
4/25/2002	0.054	
6/6/2003	0.063	
12/12/2003	0.041	
5/26/2004	0.059	
12/7/2004	0.076	
6/21/2005	0.042	
12/12/2005	0.048	
4/4/2006	0.05	
6/27/2006	0.036	
8/30/2006	0.059	
12/4/2006	0.062	
2/15/2007	0.079	
6/23/2007	0.03	
9/11/2007	0.053	
12/11/2007	0.075	
3/11/2008	0.052	
6/24/2008	0.039	
11/3/2008	0.082	
12/4/2008	0.079	
3/25/2009	0.093	
7/8/2009	0.039	
9/14/2009	0.061	
12/20/2009	0.088	
3/4/2010	0.077	
6/20/2010	0.075	
9/14/2010	0.093	
1/7/2011	0.13	
4/15/2011	0.086	
7/7/2011	0.051	
9/25/2011	0.056	
1/17/2012	0.052	
4/4/2012	0.0519	
7/9/2012	0.048	
10/9/2012	0.065	
1/18/2013	0.045	
4/5/2013	0.047	
7/17/2013	0.032	
10/11/2013	0.028	
1/14/2014	0.036	
4/3/2014	0.038	
7/9/2014	0.03	
10/24/2014	0.025	
1/14/2015	0.04	
5/10/2015	0.026	
7/17/2015	0.029	
10/6/2015	0.03	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
1/17/2016	0.038	
4/26/2016	0.025	
7/27/2016	0.0248	
9/1/2016	0.0346	
10/25/2016	0.0248	
1/5/2017	0.0245	
4/4/2017	0.0342	
7/11/2017	0.0276	
10/2/2017	0.0274	
1/9/2018	0.0222	
7/9/2018	0.026	
1/16/2019		0.028
3/26/2019		0.034
8/27/2019		0.067
10/8/2019		0.085
4/7/2020		0.073

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	0.028	
11/21/2000	0.035	
1/20/2001	0.032	
3/14/2001	0.036	
7/16/2001	0.036	
11/1/2001	0.036	
4/25/2002	0.045	
6/6/2003	0.083 (o)	
12/12/2003	0.094 (o)	
5/26/2004	0.034	
12/7/2004	0.042	
6/21/2005	0.039	
12/12/2005	0.043	
6/27/2006	0.031	
12/4/2006	0.043	
6/23/2007	0.031	
12/11/2007	0.044	
6/24/2008	0.057	
12/5/2008	0.041	
7/8/2009	0.058	
12/20/2009	0.062	
6/20/2010	0.03	
1/7/2011	0.049	
7/7/2011	0.05	
1/17/2012	0.044	
7/9/2012	0.045	
1/18/2013	0.049	
7/17/2013	0.039	
1/13/2014	0.038	
7/9/2014	0.031	
1/13/2015	0.041	
7/16/2015	0.041	
1/17/2016	0.048	
7/27/2016	0.0487	
9/1/2016	0.0403	
10/25/2016	0.0329	
1/5/2017	0.0392	
4/3/2017	0.0439	
7/11/2017	0.051	
10/2/2017	0.047	
1/9/2018	0.0431	
7/10/2018	0.047	
1/17/2019		0.042
3/26/2019		0.047
8/27/2019		0.049
10/8/2019		0.057
4/7/2020		0.033

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	0.076	
11/21/2000	0.075	
1/20/2001	0.053	
3/14/2001	0.055	
7/16/2001	0.041	
11/1/2001	0.045	
4/25/2002	0.055	
6/6/2003	0.48 (o)	
12/12/2003	0.13 (o)	
5/26/2004	0.055	
12/7/2004	0.072	
6/21/2005	0.061	
12/12/2005	0.047	
4/4/2006	0.042	
6/27/2006	0.042	
8/30/2006	0.05	
12/4/2006	0.044	
2/15/2007	0.041	
6/23/2007	0.044	
9/11/2007	0.04	
12/11/2007	0.0035	
3/11/2008	0.034	
6/24/2008	0.042	
11/3/2008	0.049	
12/5/2008	0.05	
3/25/2009	0.052	
7/8/2009	0.046	
9/14/2009	0.048	
12/20/2009	0.062	
3/4/2010	0.058	
6/21/2010	0.041	
9/14/2010	0.036	
1/7/2011	0.054	
4/15/2011	0.049	
7/7/2011	0.063	
9/25/2011	0.037	
1/18/2012	0.034	
4/4/2012	0.0446	
7/10/2012	0.033	
10/9/2012	0.041	
1/18/2013	0.036	
4/5/2013	0.036	
7/17/2013	0.054	
10/11/2013	0.052	
1/14/2014	0.051	
4/3/2014	0.047	
7/9/2014	0.08	
10/24/2014	0.072	
1/14/2015	0.047	
5/11/2015	0.053	
7/16/2015	0.059	
10/6/2015	0.053	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
1/17/2016	0.056	
4/26/2016	0.0721	
7/28/2016	0.0534	
9/1/2016	0.0445	
10/25/2016	0.0464	
1/4/2017	0.0379	
4/5/2017	0.0534	
7/12/2017	0.0944	
10/3/2017	0.135 (o)	
1/10/2018	0.0603	
7/10/2018	0.16 (o)	
1/17/2019		0.13
3/26/2019		0.14
8/28/2019		0.09
10/8/2019		0.13
4/7/2020		0.13

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	0.16	
11/21/2000	0.17	
1/20/2001	0.16	
3/14/2001	0.17	
7/16/2001	0.19	
11/1/2001	0.18	
4/25/2002	0.15	
6/6/2003	0.13	
12/12/2003	0.18	
5/26/2004	0.17	
12/7/2004	0.19	
6/21/2005	0.18	
12/12/2005	0.17	
6/27/2006	0.17	
12/4/2006	0.21	
6/23/2007	0.17	
12/11/2007	0.18	
6/24/2008	0.14	
12/5/2008	0.19	
7/8/2009	0.2	
12/21/2009	0.23	
6/21/2010	0.25	
1/7/2011	0.21	
7/8/2011	0.13	
1/18/2012	0.26	
7/10/2012	0.19	
1/18/2013	0.17	
7/17/2013	0.18	
1/14/2014	0.18	
7/9/2014	0.16	
1/14/2015	0.16	
7/18/2015	0.012	
1/18/2016	0.13	
7/29/2016	0.181	
9/1/2016	0.203	
10/26/2016	0.177	
1/5/2017	0.142	
4/5/2017	0.106	
7/13/2017	0.0686	
10/4/2017	0.0589	
1/11/2018	0.0412	
7/11/2018	0.049	
1/16/2019		0.063
3/26/2019		0.025
8/28/2019		0.026
10/9/2019		0.032
4/8/2020		0.055

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	0.046	
1/20/2001	0.036	
3/14/2001	0.03	
7/16/2001	0.032	
11/1/2001	0.029	
4/25/2002	0.021	
6/6/2003	0.032	
12/12/2003	0.021	
5/26/2004	0.035	
12/7/2004	0.031	
6/21/2005	0.028	
12/12/2005	0.024	
6/27/2006	0.03	
12/4/2006	0.031	
6/23/2007	0.037	
12/11/2007	0.034	
6/24/2008	0.038	
12/4/2008	0.038	
7/8/2009	0.053	
12/20/2009	0.047	
6/20/2010	0.046	
1/6/2011	0.063	
1/17/2012	0.06	
7/9/2012	0.05	
1/17/2013	0.058	
7/17/2013	0.041	
1/13/2014	0.058	
7/9/2014	0.048	
1/13/2015	0.048	
7/16/2015	0.048	
1/17/2016	0.049	
7/27/2016	0.0796	
8/31/2016	0.0429	
10/26/2016	0.113 (o)	
1/5/2017	0.0526	
4/4/2017	0.0503	
7/13/2017	0.0529	
10/3/2017	0.057	
1/10/2018	0.0527	
7/10/2018	0.054	
1/21/2019		0.05
7/30/2019		0.052
8/27/2019		0.053
10/9/2019		0.05
4/8/2020		0.061

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	0.062	
1/7/2011	0.039	
7/7/2011	0.06	
7/8/2011	0.043	
1/18/2012	0.042	
7/10/2012	0.039	
1/18/2013	0.04	
7/17/2013	0.055	
1/14/2014	0.059	
7/10/2014	0.067	
1/12/2015	0.061	
7/18/2015	0.13	
1/17/2016	0.08	
7/28/2016	0.164	
9/1/2016	0.0976	
10/25/2016	0.0702	
1/4/2017	0.0999	
4/4/2017	0.136	
7/11/2017	0.145	
10/2/2017	0.148	
1/10/2018	0.0788	
7/9/2018	0.087	
1/21/2019		0.069
3/25/2019		0.085
8/28/2019		0.078
10/9/2019		0.078
4/8/2020		0.19

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	0.16	
1/7/2011	0.095	
7/8/2011	0.1	
1/18/2012	0.12	
7/10/2012	0.097	
1/18/2013	0.1	
7/17/2013	0.069	
1/14/2014	0.086	
7/9/2014	0.065	
1/14/2015	0.084	
7/17/2015	0.071	
1/17/2016	0.079	
7/28/2016	0.0626	
9/1/2016	0.077	
10/25/2016	0.0217	
1/4/2017	0.0617	
4/4/2017	0.0761	
7/13/2017	0.0428	
10/3/2017	0.0376	
1/9/2018	0.0704	
7/10/2018	0.061	
1/17/2019		0.061
3/26/2019		0.084
8/28/2019		0.063
10/8/2019		0.079
4/7/2020		0.054

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	0.11	
1/7/2011	0.12	
7/8/2011	0.094	
1/18/2012	0.087	
7/10/2012	0.1	
1/18/2013	0.078	
7/17/2013	0.062	
1/14/2014	0.073	
7/10/2014	0.13	
1/14/2015	0.065	
7/18/2015	0.073	
1/18/2016	0.062	
7/29/2016	0.0575	
8/31/2016	0.0693	
10/26/2016	0.0966	
1/4/2017	0.0975	
4/6/2017	0.064	
7/11/2017	0.0778	
10/4/2017	0.156	
1/11/2018	0.0702	
7/11/2018	0.12	
1/18/2019		0.052
3/27/2019		0.057
8/27/2019		0.097
10/9/2019		0.065
4/7/2020		0.1

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	0.093	
11/21/2000	0.095	
1/20/2001	0.089	
3/14/2001	0.088	
7/16/2001	0.096	
11/1/2001	0.094	
4/25/2002	0.085	
6/6/2003	0.09	
12/12/2003	0.084	
5/26/2004	0.08	
12/7/2004	0.098	
6/21/2005	0.084	
12/12/2005	0.07	
6/27/2006	0.083	
12/4/2006	0.072	
6/23/2007	0.087	
12/11/2007	0.082	
6/23/2008	0.1	
12/4/2008	0.12	
7/8/2009	0.14	
12/21/2009	0.15	
6/20/2010	0.21	
1/7/2011	0.2	
7/8/2011	0.18	
1/18/2012	0.18	
7/10/2012	0.16	
1/18/2013	0.19	
7/17/2013	0.17	
1/14/2014	0.2	
7/9/2014	0.16	
1/14/2015	0.17	
7/17/2015	0.18	
1/18/2016	0.2	
7/28/2016	0.234	
8/31/2016	0.284	
10/27/2016	0.244	
1/6/2017	0.305	
4/6/2017	0.249	
7/12/2017	0.256	
10/4/2017	0.356	
1/11/2018	0.226	
7/11/2018	0.29	
1/18/2019		0.21
3/27/2019		0.19
8/28/2019		0.17
10/9/2019		0.18
4/8/2020		0.15

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	0.16	
11/21/2000	0.16	
1/20/2001	0.21	
3/14/2001	0.18	
7/16/2001	0.18	
11/1/2001	0.15	
4/25/2002	0.16	
6/6/2003	0.29	
12/12/2003	0.18	
5/26/2004	0.16	
12/7/2004	0.16	
6/21/2005	0.15	
12/12/2005	0.15	
6/27/2006	0.19	
12/4/2006	0.26	
6/23/2007	0.24	
12/11/2007	0.21	
6/24/2008	0.13	
12/5/2008	0.12	
7/7/2009	0.17	
12/21/2009	0.2	
6/21/2010	0.22	
1/7/2011	0.12	
7/8/2011	0.15	
1/18/2012	0.15	
7/10/2012	0.14	
1/18/2013	0.15	
7/17/2013	0.14	
1/14/2014	0.16	
7/9/2014	0.12	
1/12/2015	0.13	
7/16/2015	0.11	
1/18/2016	0.095	
7/29/2016	0.0883	
9/1/2016	0.123	
10/26/2016	0.0863	
1/6/2017	0.0758	
4/4/2017	0.091	
7/12/2017	0.0941	
10/4/2017	0.0994	
1/11/2018	0.088	
7/11/2018	0.071	
1/16/2019		0.083
3/25/2019		0.077
8/27/2019		0.076
10/9/2019		0.076
4/7/2020		0.09

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	0.22	
11/21/2000	0.13	
1/20/2001	0.19	
3/14/2001	0.27	
7/16/2001	0.37	
11/1/2001	0.61 (o)	
4/25/2002	0.19	
6/6/2003	0.72 (o)	
12/12/2003	0.054	
5/26/2004	0.18	
12/7/2004	0.24	
6/21/2005	0.2	
12/12/2005	0.074	
6/27/2006	0.075	
12/4/2006	0.092	
6/23/2007	0.089	
12/11/2007	0.072	
6/24/2008	0.049	
12/5/2008	0.067	
7/7/2009	0.04	
12/21/2009	0.044	
6/20/2010	0.036	
1/6/2011	0.075	
7/7/2011	0.13	
1/17/2012	0.21	
7/9/2012	0.2	
1/17/2013	0.19	
7/16/2013	0.076	
1/13/2014	0.14	
7/9/2014	0.12	
1/13/2015	0.13	
7/16/2015	0.12	
1/18/2016	0.12	
7/27/2016	0.112	
8/30/2016	0.135	
10/26/2016	0.103	
1/3/2017	0.118	
4/6/2017	0.162	
7/12/2017	0.157	
10/3/2017	0.127	
1/10/2018	0.158	
7/10/2018	0.31	
1/16/2019		0.054
3/26/2019		0.057
8/28/2019		0.1
10/9/2019		0.13
4/7/2020		0.098

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	0.16	
11/21/2000	0.21	
1/20/2001	0.23	
3/14/2001	0.22	
7/16/2001	0.22	
11/1/2001	0.23	
4/25/2002	0.15	
6/6/2003	0.13	
12/12/2003	0.034	
5/26/2004	0.13	
12/7/2004	0.13	
6/21/2005	0.07	
12/12/2005	0.04	
6/27/2006	0.041	
12/4/2006	0.048	
6/23/2007	0.12	
12/11/2007	0.12	
6/24/2008	0.17	
12/5/2008	0.093	
7/7/2009	0.06	
12/21/2009	0.11	
6/20/2010	0.11	
1/7/2011	0.025	
7/7/2011	0.025	
1/18/2012	0.03	
7/10/2012	0.028	
1/18/2013	0.058	
7/17/2013	0.086	
1/14/2014	0.1	
7/9/2014	0.082	
1/14/2015	0.094	
7/17/2015	0.11	
1/18/2016	0.11	
7/28/2016	0.105	
8/30/2016	0.106	
10/26/2016	0.107	
1/5/2017	0.107	
4/6/2017	0.111	
7/12/2017	0.106	
10/3/2017	0.105	
1/9/2018	0.0969	
7/10/2018	0.087	
1/16/2019		0.013 (J)
3/26/2019		0.012 (J)
8/27/2019		0.013
10/9/2019		0.014 (J)
4/7/2020		0.01 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
6/6/2003	0.037	
12/12/2003	0.0044	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0015	
6/23/2007	<0.01	
12/11/2007	0.0016	
6/23/2008	0.0019	
12/4/2008	<0.01	
7/7/2009	0.0037	
12/20/2009	0.0016	
6/20/2010	<0.01	
1/7/2011	0.0033	
7/7/2011	0.0044	
1/17/2012	0.0038	
7/9/2012	0.022	
1/18/2013	0.034	
7/17/2013	0.032	
1/13/2014	0.04	
7/9/2014	0.036	
1/13/2015	0.03	
7/16/2015	0.039	
1/18/2016	0.068	
7/27/2016	0.05	
9/1/2016	0.119 (o)	
10/25/2016	0.0519	
1/6/2017	0.0536	
4/6/2017	0.0447 (J)	
7/13/2017	0.0269	
10/4/2017	0.0378	
1/9/2018	0.0283 (J)	
7/11/2018	0.018 (J)	
1/16/2019		0.018 (J)
3/25/2019		0.017 (J)
8/26/2019		0.024 (J)
10/8/2019		0.021 (J)
4/6/2020		0.015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0051 (o)	
6/6/2003	0.014	
12/12/2003	0.011	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	<0.01	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/23/2008	<0.01	
11/3/2008	<0.01	
12/4/2008	<0.01	
3/25/2009	<0.01	
7/7/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/20/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	0.0021 (o)	
1/17/2012	<0.01	
4/4/2012	<0.01	
7/10/2012	<0.01	
10/9/2012	<0.01	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	<0.01	
4/3/2014	<0.01	
7/9/2014	<0.01	
10/24/2014	<0.01	
1/14/2015	<0.01	
5/10/2015	<0.01	
7/17/2015	<0.01	
10/6/2015	<0.01	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	<0.01	
4/26/2016	<0.01	
7/28/2016	<0.01	
8/30/2016	<0.01	
10/24/2016	<0.01	
1/3/2017	<0.01	
4/3/2017	0.0004 (J)	
7/11/2017	0.0006 (J)	
10/2/2017	<0.01	
1/9/2018	<0.01	
7/9/2018	<0.01	
1/16/2019		<0.01
3/25/2019		<0.01
8/26/2019		0.001 (J)
10/7/2019		0.00052 (J)
4/6/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.005 (o)	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.002 (o)	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	0.0013	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	0.0011 (J)	
1/13/2015	<0.01	
7/16/2015	0.0011 (J)	
1/17/2016	<0.01	
7/27/2016	0.0016 (J)	
8/30/2016	0.0015 (J)	
10/25/2016	0.0018 (J)	
1/4/2017	0.0021 (J)	
4/4/2017	0.002 (J)	
7/12/2017	0.0021 (J)	
10/3/2017	0.0014 (J)	
1/10/2018	0.0017 (J)	
7/10/2018	0.0021 (J)	
1/16/2019		0.0021 (J)
3/26/2019		0.0018 (J)
8/27/2019		0.0062 (J)
10/9/2019		0.0019 (J)
4/7/2020		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.006	
6/6/2003	0.0082	
12/12/2003	0.0023	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0021	
6/23/2007	0.0017	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	0.0023	
1/17/2012	<0.01	
7/9/2012	0.0017	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/19/2016	<0.01	
7/26/2016	0.0005 (J)	
8/31/2016	0.001 (J)	
10/26/2016	<0.01	
1/4/2017	<0.01	
4/6/2017	0.0007 (J)	
7/11/2017	0.0006 (J)	
10/3/2017	0.0007 (J)	
1/11/2018	0.0098 (J)	
7/11/2018	<0.01	
1/17/2019		<0.01
3/27/2019		<0.01
8/27/2019		0.00092 (J)
10/8/2019		0.00091 (J)
4/7/2020		0.00094 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.002	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0032	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	0.0016	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	0.001 (J)	
1/18/2016	<0.01	
7/27/2016	0.0014 (J)	
8/31/2016	0.0012 (J)	
10/26/2016	0.0012 (J)	
1/4/2017	0.0012 (J)	
4/5/2017	0.0013 (J)	
7/10/2017	0.0014 (J)	
10/4/2017	0.0011 (J)	
1/11/2018	0.001 (J)	
7/11/2018	<0.01	
1/17/2019		0.0028 (J)
3/27/2019		<0.01
8/27/2019		0.00085 (J)
10/9/2019		0.00081 (J)
4/7/2020		0.00082 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.003	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0017	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	0.0019	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/26/2016	<0.01	
8/31/2016	0.0011 (J)	
10/26/2016	<0.01	
1/5/2017	<0.01	
4/6/2017	0.0011 (J)	
7/12/2017	0.0007 (J)	
10/4/2017	0.0008 (J)	
1/10/2018	0.0007 (J)	
7/11/2018	0.0019 (J)	
1/16/2019		<0.01
3/26/2019		<0.01
8/27/2019		<0.01
10/8/2019		<0.01
4/8/2020		0.00058 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:58 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.014	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	0.0042 (o)	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	<0.01	
12/4/2008	<0.01	
3/25/2009	<0.01	
7/8/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/20/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	0.0016	
4/15/2011	0.0034 (o)	
7/7/2011	<0.01	
9/25/2011	0.0013	
1/17/2012	<0.01	
4/4/2012	<0.01	
7/9/2012	<0.01	
10/9/2012	0.0019	
1/18/2013	0.0017	
4/5/2013	0.0019	
7/17/2013	0.0017	
10/11/2013	0.0013	
1/14/2014	0.001	
4/3/2014	0.0031 (o)	
7/9/2014	0.0012 (J)	
10/24/2014	<0.01	
1/14/2015	0.0013	
5/10/2015	<0.01	
7/17/2015	0.001 (J)	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
10/6/2015	<0.01	
1/17/2016	0.0012 (J)	
4/26/2016	<0.01	
7/27/2016	0.0008 (J)	
9/1/2016	0.0015 (J)	
10/25/2016	<0.01	
1/5/2017	0.001 (J)	
4/4/2017	0.001 (J)	
7/11/2017	0.0008 (J)	
10/2/2017	0.0009 (J)	
1/9/2018	0.0006 (J)	
7/9/2018	<0.01	
1/16/2019		<0.01
3/26/2019		<0.01
8/27/2019		0.001 (J)
10/8/2019		0.00053 (J)
4/7/2020		0.00074 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0058	
6/6/2003	0.0068	
12/12/2003	0.0041	
5/26/2004	<0.01	
12/7/2004	0.0026	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.0013	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	0.0014	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	0.0007 (J)	
9/1/2016	0.0011 (J)	
10/25/2016	<0.01	
1/5/2017	<0.01	
4/3/2017	0.0015 (J)	
7/11/2017	0.0013 (J)	
10/2/2017	0.0013 (J)	
1/9/2018	0.0012 (J)	
7/10/2018	<0.01	
1/17/2019		<0.01
3/26/2019		<0.01
8/27/2019		0.0016 (J)
10/8/2019		0.0017 (J)
4/7/2020		0.0014 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0041	
6/6/2003	0.063 (o)	
12/12/2003	0.0059	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	0.0036 (o)	
2/15/2007	<0.01	
6/23/2007	0.0016	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	0.0025	
12/5/2008	<0.01	
3/25/2009	<0.01	
7/8/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/21/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	0.0018	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	<0.01	
1/18/2012	<0.01	
4/4/2012	<0.01	
7/10/2012	<0.01	
10/9/2012	0.0018	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	<0.01	
4/3/2014	<0.01	
7/9/2014	<0.01	
10/24/2014	<0.01	
1/14/2015	<0.01	
5/11/2015	<0.01	
7/16/2015	<0.01	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	<0.01	
1/17/2016	<0.01	
4/26/2016	<0.01	
7/28/2016	0.0006 (J)	
9/1/2016	0.0011 (J)	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/5/2017	0.001 (J)	
7/12/2017	0.0011 (J)	
10/3/2017	0.0009 (J)	
1/10/2018	0.0007 (J)	
7/10/2018	<0.01	
1/17/2019		0.01 (J)
3/26/2019		<0.01
8/28/2019		0.0011 (J)
10/8/2019		0.00099 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	0.036 (o)	
5/26/2004	<0.01	
12/7/2004	0.0021	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	0.0013	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/14/2015	<0.01	
7/18/2015	<0.01	
1/18/2016	<0.01	
7/29/2016	0.0009 (J)	
9/1/2016	0.0011 (J)	
10/26/2016	<0.01	
1/5/2017	0.0012 (J)	
4/5/2017	0.0015 (J)	
7/13/2017	0.0012 (J)	
10/4/2017	0.0055 (J)	
1/11/2018	0.0009 (J)	
7/11/2018	<0.01	
1/16/2019		<0.01
3/26/2019		<0.01
8/28/2019		0.0013 (J)
10/9/2019		0.00081 (J)
4/8/2020		0.00073 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	0.0008 (J)	
8/31/2016	<0.01	
10/26/2016	0.001 (J)	
1/5/2017	<0.01	
4/4/2017	0.0008 (J)	
7/13/2017	0.0006 (J)	
10/3/2017	<0.01	
1/10/2018	<0.01	
7/10/2018	<0.01	
1/21/2019		<0.01
7/30/2019		0.00065 (J)
8/27/2019		<0.01
10/9/2019		0.00049 (J)
4/8/2020		0.00069 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.01	
1/7/2011	0.0018	
7/7/2011	<0.01	
7/8/2011	0.0019	
1/18/2012	<0.01	
7/10/2012	0.0013	
1/18/2013	0.0015	
7/17/2013	<0.01	
1/14/2014	0	
7/10/2014	<0.01	
1/12/2015	<0.01	
7/18/2015	<0.01	
1/17/2016	<0.01	
7/28/2016	0.0007 (J)	
9/1/2016	<0.01	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	0.0011 (J)	
7/11/2017	0.0009 (J)	
10/2/2017	0.0009 (J)	
1/10/2018	0.0008 (J)	
7/9/2018	<0.01	
1/21/2019		<0.01
3/25/2019		<0.01
8/28/2019		0.00089 (J)
10/9/2019		0.0011 (J)
4/8/2020		0.001 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	0.0019	
1/7/2011	0.0017	
7/8/2011	0.0023	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	0.0019	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/14/2015	<0.01	
7/17/2015	<0.01	
1/17/2016	<0.01	
7/28/2016	0.0005 (J)	
9/1/2016	<0.01	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	0.0008 (J)	
7/13/2017	0.0006 (J)	
10/3/2017	0.0005 (J)	
1/9/2018	0.0007 (J)	
7/10/2018	<0.01	
1/17/2019		0.01
3/26/2019		<0.01
8/28/2019		0.00087 (J)
10/8/2019		0.00065 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/10/2014	<0.01	
1/14/2015	<0.01	
7/18/2015	<0.01	
1/18/2016	<0.01	
7/29/2016	0.0007 (J)	
8/31/2016	<0.01	
10/26/2016	<0.01	
1/4/2017	<0.01	
4/6/2017	0.0006 (J)	
7/11/2017	0.0005 (J)	
10/4/2017	0.0006 (J)	
1/11/2018	<0.01	
7/11/2018	<0.01	
1/18/2019		<0.01
3/27/2019		<0.01
8/27/2019		0.00057 (J)
10/9/2019		0.00072 (J)
4/7/2020		0.00049 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.014	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	0.0039	
6/21/2005	0.002	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0019	
6/23/2007	0.0015	
12/11/2007	<0.01	
6/23/2008	0.0015	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	0.0015	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	0.0011 (J)	
1/14/2015	<0.01	
7/17/2015	0.0013	
1/18/2016	<0.01	
7/28/2016	0.0011 (J)	
8/31/2016	0.0024 (J)	
10/27/2016	<0.01	
1/6/2017	<0.01	
4/6/2017	0.0019 (J)	
7/12/2017	0.0011 (J)	
10/4/2017	0.0011 (J)	
1/11/2018	0.001 (J)	
7/11/2018	<0.01	
1/18/2019		<0.01
3/27/2019		<0.01
8/28/2019		0.00089 (J)
10/9/2019		0.0009 (J)
4/8/2020		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	0.021	
11/21/2000	0.017	
1/20/2001	0.03	
3/14/2001	0.019	
7/16/2001	0.029	
11/1/2001	0.021	
4/25/2002	0.03	
11/20/2002	0.038	
6/6/2003	0.028	
12/12/2003	0.027	
5/26/2004	0.021	
12/7/2004	0.016	
6/21/2005	0.015	
12/12/2005	0.022	
6/27/2006	0.027	
12/4/2006	0.025	
6/23/2007	0.023	
12/11/2007	0.018	
6/24/2008	0.022	
12/5/2008	0.023	
7/7/2009	0.012	
12/21/2009	0.019	
6/21/2010	0.01	
1/7/2011	0.023	
7/8/2011	0.017	
1/18/2012	0.0114	
7/10/2012	0.014	
1/18/2013	0.015	
7/17/2013	0.011	
1/14/2014	0.019	
7/9/2014	0.012	
1/12/2015	0.016	
7/16/2015	0.0084	
1/18/2016	0.014	
7/29/2016	0.0077 (J)	
9/1/2016	0.015	
10/26/2016	0.0106	
1/6/2017	0.0098 (J)	
4/4/2017	0.0101	
7/12/2017	0.0096 (J)	
10/4/2017	0.0097 (J)	
1/11/2018	0.0109	
7/11/2018	0.0055 (J)	
1/16/2019		0.0024 (J)
3/25/2019		0.002 (J)
8/27/2019		0.0027 (J)
10/9/2019		0.002 (J)
4/7/2020		0.0028 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	0.03	
11/21/2000	<0.01	
1/20/2001	0.028	
3/14/2001	0.052 (o)	
7/16/2001	0.08 (o)	
11/1/2001	0.13 (o)	
4/25/2002	0.021	
11/20/2002	0.053 (o)	
6/6/2003	0.064 (o)	
12/12/2003	<0.01	
5/26/2004	0.012	
12/7/2004	0.019	
6/21/2005	0.02	
12/12/2005	<0.01	
6/27/2006	0.0015	
12/4/2006	0.0034	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	0.0016	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	0.0017	
7/7/2011	0.008	
1/17/2012	0.0082	
7/9/2012	0.01	
1/17/2013	0.01	
7/16/2013	0.0061	
1/13/2014	0.002	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/27/2016	0.0006 (J)	
8/30/2016	<0.01	
10/26/2016	<0.01	
1/3/2017	0.001 (J)	
4/6/2017	0.0013 (J)	
7/12/2017	0.0011 (J)	
10/3/2017	0.0012 (J)	
1/10/2018	0.0016 (J)	
7/10/2018	0.0055 (J)	
1/16/2019		<0.01
3/26/2019		0.072
8/28/2019		0.0071 (J)
10/9/2019		0.012 (J)
4/7/2020		0.0022 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	0.016	
11/21/2000	0.023	
1/20/2001	0.025	
3/14/2001	0.021	
7/16/2001	0.019	
11/1/2001	0.022	
4/25/2002	0.019	
11/20/2002	0.024	
6/6/2003	0.021	
12/12/2003	0.0066	
5/26/2004	0.013	
12/7/2004	0.013	
6/21/2005	0.0067	
12/12/2005	0.0033	
6/27/2006	0.0047	
12/4/2006	0.0084	
6/23/2007	0.01	
12/11/2007	0.0049	
6/24/2008	0.032 (o)	
12/5/2008	0.009	
7/7/2009	0.0044	
12/21/2009	0.0055	
6/20/2010	0.002	
1/7/2011	0.0039	
7/7/2011	0.0031	
1/18/2012	0.0023	
7/10/2012	0.0022	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	0.0013	
7/9/2014	<0.01	
1/14/2015	0.0015	
7/17/2015	0.0011 (J)	
1/18/2016	0.0011 (J)	
7/28/2016	0.001 (J)	
8/30/2016	0.0013 (J)	
10/26/2016	0.0014 (J)	
1/5/2017	0.002 (J)	
4/6/2017	0.0034 (J)	
7/12/2017	0.0024 (J)	
10/3/2017	0.0022 (J)	
1/9/2018	0.0019 (J)	
7/10/2018	0.0023 (J)	
1/16/2019		0.018 (J)
3/26/2019		0.017 (J)
8/27/2019		0.0097 (J)
10/9/2019		0.011 (J)
4/7/2020		0.0094 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.013	
11/21/2000	<0.013	
1/20/2001	<0.013	
3/14/2001	<0.013	
7/16/2001	<0.013	
11/1/2001	<0.013	
4/25/2002	<0.013	
6/6/2003	0.037 (o)	
12/12/2003	0.008	
5/26/2004	<0.013	
12/7/2004	<0.013	
6/21/2005	<0.013	
12/12/2005	<0.013	
6/27/2006	<0.013	
12/4/2006	<0.013	
6/23/2007	<0.013	
12/11/2007	<0.013	
6/23/2008	<0.013	
12/4/2008	<0.013	
7/7/2009	<0.013	
12/20/2009	<0.013	
6/20/2010	<0.013	
1/7/2011	<0.013	
7/7/2011	<0.013	
1/17/2012	<0.013	
7/9/2012	<0.013	
1/18/2013	<0.013	
7/17/2013	<0.013	
1/13/2014	0.013	
7/9/2014	0.0076 (J)	
1/13/2015	0.0057 (J)	
7/16/2015	0.009 (J)	
1/18/2016	0.0094 (J)	
7/27/2016	0.0058	
9/1/2016	0.0663 (o)	
10/25/2016	0.0003 (J)	
1/6/2017	0.006	
4/6/2017	0.0109	
7/13/2017	0.007	
10/4/2017	0.0042 (J)	
1/9/2018	0.0098	
7/11/2018	0.0028 (J)	
1/16/2019		<0.025 (o)
3/25/2019		0.0019 (J)
8/26/2019		0.013 (J)
10/8/2019		0.0098 (J)
4/6/2020		0.0024 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	0.016 (o)	
12/12/2003	0.0095	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
4/4/2006	<0.005	
6/27/2006	<0.005	
8/30/2006	<0.005	
12/4/2006	<0.005	
2/15/2007	<0.005	
6/23/2007	<0.005	
9/11/2007	<0.005	
12/11/2007	<0.005	
3/11/2008	<0.005	
6/23/2008	<0.005	
11/3/2008	<0.005	
12/4/2008	<0.005	
3/25/2009	<0.005	
7/7/2009	<0.005	
9/14/2009	<0.005	
12/20/2009	<0.005	
3/4/2010	<0.005	
6/20/2010	<0.005	
9/14/2010	<0.005	
1/7/2011	<0.005	
4/15/2011	<0.005	
7/7/2011	<0.005	
9/25/2011	<0.005	
1/17/2012	<0.005	
4/4/2012	<0.005	
7/10/2012	<0.005	
10/9/2012	<0.005	
1/18/2013	<0.005	
4/5/2013	<0.005	
7/17/2013	<0.005	
10/11/2013	<0.005	
1/14/2014	<0.005	
4/3/2014	<0.005	
7/9/2014	<0.005	
10/24/2014	<0.005	
1/14/2015	<0.005	
5/10/2015	<0.005	
7/17/2015	<0.005	
10/6/2015	<0.005	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	<0.005	
4/26/2016	<0.005	
7/28/2016	<0.005	
8/30/2016	<0.005	
10/24/2016	<0.005	
1/3/2017	0.0001 (J)	
4/3/2017	0.0002 (J)	
7/11/2017	0.0001 (J)	
10/2/2017	0.0001 (J)	
1/9/2018	0.0001 (J)	
7/9/2018	<0.005	
1/16/2019		<0.005
3/25/2019		<0.005
8/26/2019		<0.005
10/7/2019		<0.005
4/6/2020		0.0001 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/17/2016	<0.005	
7/27/2016	<0.005	
8/30/2016	<0.005	
10/25/2016	<0.005	
1/4/2017	<0.005	
4/4/2017	<0.005	
7/12/2017	<0.005	
10/3/2017	<0.005	
1/10/2018	0.0001 (J)	
7/10/2018	<0.005	
1/16/2019		<0.005
3/26/2019		<0.005
8/27/2019		<0.005
10/9/2019		<0.005
4/7/2020		0.00012 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.013	
11/21/2000	<0.013	
1/20/2001	<0.013	
3/14/2001	<0.013	
7/16/2001	<0.013	
11/1/2001	<0.013	
4/25/2002	<0.013	
11/20/2002	<0.013	
6/6/2003	0.0068	
12/12/2003	<0.013	
5/26/2004	<0.013	
12/7/2004	<0.013	
6/21/2005	<0.013	
12/12/2005	<0.013	
6/27/2006	<0.013	
12/4/2006	<0.013	
6/23/2007	<0.013	
12/11/2007	<0.013	
6/23/2008	<0.013	
12/4/2008	<0.013	
7/8/2009	<0.013	
12/21/2009	<0.013	
6/20/2010	<0.013	
1/6/2011	<0.013	
7/7/2011	<0.013	
1/17/2012	<0.013	
7/9/2012	<0.013	
1/17/2013	<0.013	
7/16/2013	<0.013	
1/13/2014	<0.013	
7/8/2014	<0.013	
1/13/2015	<0.013	
7/16/2015	<0.013	
1/19/2016	<0.013	
7/26/2016	0.0001 (J)	
8/31/2016	0.0002 (J)	
10/26/2016	0.0001 (J)	
1/4/2017	0.0002 (J)	
4/6/2017	0.0003 (J)	
7/11/2017	0.0002 (J)	
10/3/2017	0.0003 (J)	
1/11/2018	0.0003 (J)	
7/11/2018	<0.005 (o)	
1/17/2019		0.00028 (J)
3/27/2019		0.00029 (J)
8/27/2019		0.00021 (J)
10/8/2019		0.00028 (J)
4/7/2020		0.00036 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	0.004	
7/8/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	0.0044 (J)	
1/18/2016	0.0034 (J)	
7/27/2016	0.0001 (J)	
8/31/2016	0.0001 (J)	
10/26/2016	0.0001 (J)	
1/4/2017	<0.005	
4/5/2017	0.0003 (J)	
7/10/2017	0.0003 (J)	
10/4/2017	0.0001 (J)	
1/11/2018	0.0002 (J)	
7/11/2018	<0.005	
1/17/2019		<0.005
3/27/2019		<0.005
8/27/2019		<0.005
10/9/2019		6.6E-05 (J)
4/7/2020		8.1E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	0.0078	
12/12/2003	0.0055	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/8/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/26/2016	<0.005	
8/31/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	0.0002 (J)	
4/6/2017	0.0005 (J)	
7/12/2017	0.0005 (J)	
10/4/2017	0.0007 (J)	
1/10/2018	0.0009 (J)	
7/11/2018	0.0015 (J)	
1/16/2019		0.00061 (J)
3/26/2019		<0.005
8/27/2019		0.0001 (J)
10/8/2019		0.00013 (J)
4/8/2020		0.00017 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.011 (o)	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
4/4/2006	<0.005	
6/27/2006	<0.005	
8/30/2006	<0.005	
12/4/2006	<0.005	
2/15/2007	<0.005	
6/23/2007	<0.005	
9/11/2007	<0.005	
12/11/2007	<0.005	
3/11/2008	<0.005	
6/24/2008	<0.005	
11/3/2008	<0.005	
12/4/2008	<0.005	
3/25/2009	<0.005	
7/8/2009	<0.005	
9/14/2009	<0.005	
12/20/2009	<0.005	
3/4/2010	<0.005	
6/20/2010	<0.005	
9/14/2010	<0.005	
1/7/2011	<0.005	
4/15/2011	<0.005	
7/7/2011	<0.005	
9/25/2011	<0.005	
1/17/2012	<0.005	
4/4/2012	<0.005	
7/9/2012	<0.005	
10/9/2012	<0.005	
1/18/2013	<0.005	
4/5/2013	<0.005	
7/17/2013	<0.005	
10/11/2013	<0.005	
1/14/2014	<0.005	
4/3/2014	<0.005	
7/9/2014	<0.005	
10/24/2014	<0.005	
1/14/2015	<0.005	
5/10/2015	<0.005	
7/17/2015	<0.005	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
1/17/2016	<0.005	
4/26/2016	<0.005	
7/27/2016	<0.005	
9/1/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
4/4/2017	0.0001 (J)	
7/11/2017	8E-05 (J)	
10/2/2017	0.0001 (J)	
1/9/2018	<0.005	
7/9/2018	<0.005	
1/16/2019		<0.005
3/26/2019		<0.005
8/27/2019		0.00051 (J)
10/8/2019		<0.005
4/7/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	0.0065	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/8/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/17/2016	<0.005	
7/27/2016	<0.005	
9/1/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
4/3/2017	0.0003 (J)	
7/11/2017	0.0001 (J)	
10/2/2017	0.0002 (J)	
1/9/2018	0.0002 (J)	
7/10/2018	<0.005	
1/17/2019		<0.005
3/26/2019		<0.005
8/27/2019		0.00033 (J)
10/8/2019		0.00012 (J)
4/7/2020		8.6E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	0.099 (o)	
12/12/2003	0.017 (o)	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
4/4/2006	<0.005	
6/27/2006	<0.005	
8/30/2006	<0.005	
12/4/2006	<0.005	
2/15/2007	<0.005	
6/23/2007	<0.005	
9/11/2007	<0.005	
12/11/2007	<0.005	
3/11/2008	<0.005	
6/24/2008	<0.005	
11/3/2008	<0.005	
12/5/2008	<0.005	
3/25/2009	<0.005	
7/8/2009	<0.005	
9/14/2009	<0.005	
12/20/2009	<0.005	
3/4/2010	<0.005	
6/21/2010	<0.005	
9/14/2010	<0.005	
1/7/2011	<0.005	
4/15/2011	<0.005	
7/7/2011	<0.005	
9/25/2011	<0.005	
1/18/2012	<0.005	
4/4/2012	<0.005	
7/10/2012	<0.005	
10/9/2012	<0.005	
1/18/2013	<0.005	
4/5/2013	<0.005	
7/17/2013	<0.005	
10/11/2013	<0.005	
1/14/2014	<0.005	
4/3/2014	<0.005	
7/9/2014	<0.005	
10/24/2014	<0.005	
1/14/2015	<0.005	
5/11/2015	<0.005	
7/16/2015	<0.005	

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
1/17/2016	<0.005	
4/26/2016	<0.005	
7/28/2016	<0.005	
9/1/2016	<0.005	
10/25/2016	0.0002 (J)	
1/4/2017	0.0001 (J)	
4/5/2017	0.0002 (J)	
7/12/2017	0.0001 (J)	
10/3/2017	0.0001 (J)	
1/10/2018	0.0002 (J)	
7/10/2018	<0.005	
1/17/2019		<0.005
3/26/2019		<0.005
8/28/2019		0.0001 (J)
10/8/2019		0.0001 (J)
4/7/2020		0.00023 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/21/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/18/2015	<0.005	
1/18/2016	<0.005	
7/29/2016	<0.005	
9/1/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	<0.005	
4/5/2017	0.0009 (J)	
7/13/2017	<0.005	
10/4/2017	0.0001 (J)	
1/11/2018	0.0001 (J)	
7/11/2018	<0.005	
1/16/2019		<0.005
3/26/2019		<0.005
8/28/2019		<0.005
10/9/2019		0.00015 (J)
4/8/2020		8.4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	0.0069	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	<0.005	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/20/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/17/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/17/2016	<0.005	
7/27/2016	<0.005	
8/31/2016	<0.005	
10/26/2016	<0.005	
1/5/2017	<0.005	
4/4/2017	0.0002 (J)	
7/13/2017	0.0003 (J)	
10/3/2017	<0.005	
1/10/2018	8E-05 (J)	
7/10/2018	<0.005	
1/21/2019		<0.005
7/30/2019		0.0002 (J)
8/27/2019		<0.005
10/9/2019		6.4E-05 (J)
4/8/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.005	
1/7/2011	<0.005	
7/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/10/2014	<0.005	
1/12/2015	<0.005	
7/18/2015	<0.005	
1/17/2016	<0.005	
7/28/2016	<0.005	
9/1/2016	<0.005	
10/25/2016	0.0001 (J)	
1/4/2017	<0.005	
4/4/2017	7E-05 (J)	
7/11/2017	<0.005	
10/2/2017	<0.005	
1/10/2018	0.0002 (J)	
7/9/2018	<0.005	
1/21/2019		<0.005
3/25/2019		<0.005
8/28/2019		6.5E-05 (J)
10/9/2019		0.00018 (J)
4/8/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/17/2015	<0.005	
1/17/2016	<0.005	
7/28/2016	<0.005	
9/1/2016	<0.005	
10/25/2016	<0.005	
1/4/2017	<0.005	
4/4/2017	9E-05 (J)	
7/13/2017	7E-05 (J)	
10/3/2017	0.0001 (J)	
1/9/2018	9E-05 (J)	
7/10/2018	<0.005	
1/17/2019		<0.005
3/26/2019		<0.005
8/28/2019		0.00018 (J)
10/8/2019		0.00016 (J)
4/7/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.013	
1/7/2011	<0.013	
7/8/2011	<0.013	
1/18/2012	<0.013	
7/10/2012	<0.013	
1/18/2013	<0.013	
7/17/2013	<0.013	
1/14/2014	<0.013	
7/10/2014	<0.013	
1/14/2015	<0.013	
7/18/2015	<0.013	
1/18/2016	<0.013	
7/29/2016	0.0004 (J)	
8/31/2016	0.0003 (J)	
10/26/2016	0.0003 (J)	
1/4/2017	0.0003 (J)	
4/6/2017	0.0003 (J)	
7/11/2017	0.0002 (J)	
10/4/2017	0.0008 (J)	
1/11/2018	0.0009 (J)	
7/11/2018	0.001 (J)	
1/18/2019		0.0012 (J)
3/27/2019		0.00047 (J)
8/27/2019		0.003 (J)
10/9/2019		0.00032 (J)
4/7/2020		0.00067 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.005	
11/21/2000	<0.005	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	<0.005	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.0086 (o)	
6/6/2003	<0.005	
12/12/2003	<0.005	
5/26/2004	<0.005	
12/7/2004	0.0051	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/23/2008	<0.005	
12/4/2008	<0.005	
7/8/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	<0.005	
7/9/2014	<0.005	
1/14/2015	<0.005	
7/17/2015	<0.005	
1/18/2016	<0.005	
7/28/2016	<0.005	
8/31/2016	0.0007 (J)	
10/27/2016	<0.005	
1/6/2017	<0.005	
4/6/2017	0.0001 (J)	
7/12/2017	<0.005	
10/4/2017	9E-05 (J)	
1/11/2018	0.0002 (J)	
7/11/2018	<0.005	
1/18/2019		<0.005
3/27/2019		<0.005
8/28/2019		6.1E-05 (J)
10/9/2019		<0.005
4/8/2020		0.00021 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	0.0083	
11/21/2000	0.0052	
1/20/2001	<0.005	
3/14/2001	<0.005	
7/16/2001	0.011	
11/1/2001	<0.005	
4/25/2002	<0.005	
11/20/2002	0.018 (o)	
6/6/2003	0.015 (o)	
12/12/2003	0.0072	
5/26/2004	0.0055	
12/7/2004	<0.005	
6/21/2005	<0.005	
12/12/2005	<0.005	
6/27/2006	0.024 (o)	
12/4/2006	0.023 (o)	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	0.02 (o)	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/21/2009	<0.005	
6/21/2010	<0.005	
1/7/2011	<0.005	
7/8/2011	<0.005	
1/18/2012	<0.005	
7/10/2012	<0.005	
1/18/2013	<0.005	
7/17/2013	<0.005	
1/14/2014	0.005	
7/9/2014	<0.005	
1/12/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	0.0055 (J)	
7/29/2016	0.003 (J)	
9/1/2016	0.0166 (o)	
10/26/2016	0.0057	
1/6/2017	0.0053	
4/4/2017	0.0092	
7/12/2017	0.006	
10/4/2017	0.0057	
1/11/2018	0.0085	
7/11/2018	0.0029 (J)	
1/16/2019		<0.005
3/25/2019		<0.005
8/27/2019		0.001 (J)
10/9/2019		0.00041 (J)
4/7/2020		0.00073 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	0.017 (o)	
11/21/2000	<0.005	
1/20/2001	0.011	
3/14/2001	0.026 (o)	
7/16/2001	0.043 (o)	
11/1/2001	0.075 (o)	
4/25/2002	<0.005	
11/20/2002	0.057 (o)	
6/6/2003	0.16 (o)	
12/12/2003	<0.005	
5/26/2004	0.011	
12/7/2004	0.038 (o)	
6/21/2005	0.036 (o)	
12/12/2005	<0.005	
6/27/2006	<0.005	
12/4/2006	<0.005	
6/23/2007	<0.005	
12/11/2007	<0.005	
6/24/2008	<0.005	
12/5/2008	<0.005	
7/7/2009	<0.005	
12/21/2009	<0.005	
6/20/2010	<0.005	
1/6/2011	<0.005	
7/7/2011	<0.005	
1/17/2012	<0.005	
7/9/2012	<0.005	
1/17/2013	<0.005	
7/16/2013	<0.005	
1/13/2014	<0.005	
7/9/2014	<0.005	
1/13/2015	<0.005	
7/16/2015	<0.005	
1/18/2016	<0.005	
7/27/2016	<0.005	
8/30/2016	<0.005	
10/26/2016	0.0002 (J)	
1/3/2017	0.0001 (J)	
4/6/2017	0.0003 (J)	
7/12/2017	0.0002 (J)	
10/3/2017	0.0002 (J)	
1/10/2018	0.0003 (J)	
7/10/2018	<0.005	
1/16/2019		<0.005
3/26/2019		<0.005
8/28/2019		0.0011 (J)
10/9/2019		0.0025 (J)
4/7/2020		0.0014 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	<0.025	
11/21/2000	<0.025	
1/20/2001	<0.025	
3/14/2001	<0.025	
7/16/2001	<0.025	
11/1/2001	<0.025	
4/25/2002	<0.025	
11/20/2002	0.0057 (J)	
6/6/2003	0.013	
12/12/2003	<0.025	
5/26/2004	<0.025	
12/7/2004	<0.025	
6/21/2005	<0.025	
12/12/2005	<0.025	
6/27/2006	<0.025	
12/4/2006	<0.025	
6/23/2007	<0.025	
12/11/2007	<0.025	
6/24/2008	0.02	
12/5/2008	<0.025	
7/7/2009	<0.025	
12/21/2009	<0.025	
6/20/2010	<0.025	
1/7/2011	<0.025	
7/7/2011	<0.025	
1/18/2012	<0.025	
7/10/2012	<0.025	
1/18/2013	<0.025	
7/17/2013	<0.025	
1/14/2014	<0.025	
7/9/2014	<0.025	
1/14/2015	<0.025	
7/17/2015	<0.025	
1/18/2016	<0.025	
7/28/2016	<0.025	
8/30/2016	<0.025	
10/26/2016	<0.025	
1/5/2017	0.0003 (J)	
4/6/2017	0.0002 (J)	
7/12/2017	0.0002 (J)	
10/3/2017	0.0001 (J)	
1/9/2018	0.0003 (J)	
7/10/2018	<0.025	
1/16/2019		<0.025
3/26/2019		<0.025
8/27/2019		0.0011 (J)
10/9/2019		0.00033 (J)
4/7/2020		0.00063 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/7/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/18/2013	0.009	
7/17/2013	0.011	
1/13/2014	0.012	
7/9/2014	0.011	
1/13/2015	0.0092	
7/16/2015	0.014	
1/18/2016	0.023	
7/27/2016	0.0323	
9/1/2016	0.0438	
10/25/2016	0.031	
1/6/2017	0.0324	
4/6/2017	0.0188 (J)	
7/13/2017	0.0118	
10/4/2017	0.0195	
1/9/2018	<0.05 (o)	
7/11/2018	<0.05 (o)	
1/16/2019		0.0071 (J)
3/25/2019		<0.05 (o)
8/26/2019		<0.05 (o)
10/8/2019		0.0072 (J)
4/6/2020		0.0078 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	<0.01	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/23/2008	<0.01	
11/3/2008	<0.01	
12/4/2008	<0.01	
3/25/2009	<0.01	
7/7/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/20/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	<0.01	
1/17/2012	<0.01	
4/4/2012	<0.0005 (o)	
7/10/2012	<0.01	
10/9/2012	<0.01	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	<0.01	
4/3/2014	<0.01	
7/9/2014	<0.01	
10/24/2014	<0.01	
1/14/2015	<0.01	
5/10/2015	<0.01	
7/17/2015	<0.01	
10/6/2015	<0.01	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	<0.01	
4/26/2016	<0.01	
7/28/2016	0.001 (J)	
8/30/2016	<0.01	
10/24/2016	0.0013 (J)	
1/3/2017	<0.01	
4/3/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/9/2018	<0.01	
7/9/2018	<0.01	
1/16/2019		<0.01
3/25/2019		<0.01
8/26/2019		<0.01
10/7/2019		<0.01
4/6/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	0.017	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	0.012	
11/20/2002	0.19 (o)	
6/6/2003	0.32 (o)	
12/12/2003	0.013	
5/26/2004	0.017	
12/7/2004	0.011	
6/21/2005	0.0088	
12/12/2005	0.011	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	0.012	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	0.023	
7/27/2016	0.002 (J)	
8/30/2016	0.002 (J)	
10/25/2016	0.0022 (J)	
1/4/2017	0.0016 (J)	
4/4/2017	0.0052 (J)	
7/12/2017	0.0024 (J)	
10/3/2017	<0.01	
1/10/2018	0.0018 (J)	
7/10/2018	0.0026 (J)	
1/16/2019		0.0018 (J)
3/26/2019		0.0023 (J)
8/27/2019		0.0016 (J)
10/9/2019		0.0024 (J)
4/7/2020		0.0013 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	0.023	
7/9/2012	0.016	
1/17/2013	0.033	
7/16/2013	0.0068	
1/13/2014	0.036	
7/8/2014	0.017	
1/13/2015	0.027	
7/16/2015	<0.01	
1/19/2016	0.023	
7/26/2016	0.0056 (J)	
8/31/2016	0.0084 (J)	
10/26/2016	0.0052 (J)	
1/4/2017	0.0062 (J)	
4/6/2017	0.0195	
7/11/2017	<0.01	
10/3/2017	0.0079 (J)	
1/11/2018	0.0054 (J)	
7/11/2018	0.0022 (J)	
1/17/2019		<0.01
3/27/2019		0.01 (J)
8/27/2019		<0.01
10/8/2019		<0.01
4/7/2020		0.0021 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/27/2016	0.0025 (J)	
8/31/2016	0.0019 (J)	
10/26/2016	0.002 (J)	
1/4/2017	<0.01	
4/5/2017	<0.01	
7/10/2017	<0.01	
10/4/2017	<0.01	
1/11/2018	<0.01	
7/11/2018	<0.01	
1/17/2019		<0.01
3/27/2019		<0.01
8/27/2019		<0.01
10/9/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
1/17/2012	0.016	
4/4/2012	0.0156	
7/9/2012	<0.01	
10/9/2012	0.0094	
1/18/2013	0.0067	
4/5/2013	0.0077	
7/17/2013	0.01	
10/11/2013	0.0087	
1/14/2014	0.012	
4/3/2014	0.022	
7/9/2014	0.0089	
10/24/2014	0.017	
1/14/2015	<0.01	
5/10/2015	<0.01	
7/17/2015	<0.01	
10/6/2015	<0.01	
1/17/2016	<0.01	
4/26/2016	0.00428 (J)	
7/27/2016	0.0038 (J)	
9/1/2016	0.0056 (J)	
10/25/2016	0.0023 (J)	
1/5/2017	0.0038 (J)	
4/4/2017	0.0064 (J)	
7/11/2017	0.0044 (J)	
10/2/2017	0.004 (J)	
1/9/2018	0.0019 (J)	
7/9/2018	0.0029 (J)	
1/16/2019		0.0016 (J)
3/26/2019		0.0022 (J)
8/27/2019		0.0035 (J)
10/8/2019		0.0026 (J)
4/7/2020		0.005 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0094	
6/6/2003	0.021 (o)	
12/12/2003	0.016 (o)	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	0.066 (o)	
1/18/2013	0.04 (o)	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	<0.01	
9/1/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
4/3/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/9/2018	0.0019 (J)	
7/10/2018	0.0086 (J)	
1/17/2019		0.0029 (J)
3/26/2019		0.0074 (J)
8/27/2019		0.0092 (J)
10/8/2019		0.014
4/7/2020		0.0029 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.021 (o)	
12/12/2003	0.0078 (o)	
5/26/2004	0.0053	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	<0.01	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	<0.01	
12/5/2008	<0.01	
3/25/2009	<0.01	
7/8/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/21/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	<0.01	
1/18/2012	<0.01	
4/4/2012	<0.01	
7/10/2012	<0.01	
10/9/2012	<0.01	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	0.0069	
1/14/2014	<0.01	
4/3/2014	<0.01	
7/9/2014	0.005	
10/24/2014	<0.01	
1/14/2015	<0.01	
5/11/2015	<0.01	
7/16/2015	<0.01	

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	0.0073	
1/17/2016	0.0031 (J)	
4/26/2016	0.00497 (J)	
7/28/2016	0.0076 (J)	
9/1/2016	0.0052 (J)	
10/25/2016	0.0085 (J)	
1/4/2017	0.0048 (J)	
4/5/2017	0.0068 (J)	
7/12/2017	0.0048 (J)	
10/3/2017	0.0051 (J)	
1/10/2018	0.0018 (J)	
7/10/2018	0.0045 (J)	
1/17/2019		0.0031 (J)
3/26/2019		0.0033 (J)
8/28/2019		0.004 (J)
10/8/2019		0.0023 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/14/2015	<0.01	
7/18/2015	<0.01	
1/18/2016	<0.01	
7/29/2016	0.0011 (J)	
9/1/2016	0.0012 (J)	
10/26/2016	0.0013 (J)	
1/5/2017	0.0012 (J)	
4/5/2017	<0.01	
7/13/2017	0.0018 (J)	
10/4/2017	0.0042 (J)	
1/11/2018	<0.01	
7/11/2018	0.0016 (J)	
1/16/2019		<0.01
3/26/2019		<0.01
8/28/2019		<0.01
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	0.005	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	0.002 (J)	
8/31/2016	<0.01	
10/26/2016	0.0035 (J)	
1/5/2017	<0.01	
4/4/2017	<0.01	
7/13/2017	<0.01	
10/3/2017	<0.01	
1/10/2018	<0.01	
7/10/2018	<0.01	
1/21/2019		<0.01
7/30/2019		<0.01
8/27/2019		<0.01
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	0.005	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/10/2014	<0.01	
1/12/2015	<0.01	
7/18/2015	<0.01	
1/17/2016	<0.01	
7/28/2016	<0.01	
9/1/2016	<0.01	
10/25/2016	0.0014 (J)	
1/4/2017	0.0014 (J)	
4/4/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/10/2018	<0.01	
7/9/2018	<0.01	
1/21/2019		0.0014 (J)
3/25/2019		<0.01
8/28/2019		0.0014 (J)
10/9/2019		<0.01
4/8/2020		0.0013 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	0.048	
1/7/2011	0.014	
7/8/2011	0.018	
1/18/2012	<0.01	
7/10/2012	0.02	
1/18/2013	0.015	
7/17/2013	0.037	
1/14/2014	0.043	
7/9/2014	0.023	
1/14/2015	0.022	
7/17/2015	0.033	
1/17/2016	0.021	
7/28/2016	0.0341	
9/1/2016	0.0297	
10/25/2016	0.0095 (J)	
1/4/2017	0.022	
4/4/2017	0.0236	
7/13/2017	0.013	
10/3/2017	0.01 (J)	
1/9/2018	0.0162	
7/10/2018	0.016	
1/17/2019		0.011
3/26/2019		0.022
8/28/2019		0.019
10/8/2019		0.019
4/7/2020		0.012

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/10/2014	<0.01	
1/14/2015	<0.01	
7/18/2015	<0.01	
1/18/2016	<0.01	
7/29/2016	0.0022 (J)	
8/31/2016	0.0014 (J)	
10/26/2016	0.001 (J)	
1/4/2017	<0.01	
4/6/2017	<0.01	
7/11/2017	<0.01	
10/4/2017	0.0023 (J)	
1/11/2018	<0.01	
7/11/2018	<0.01	
1/18/2019		<0.01
3/27/2019		<0.01
8/27/2019		<0.01
10/9/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	0.0062	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/14/2015	<0.01	
7/17/2015	<0.01	
1/18/2016	<0.01	
7/28/2016	<0.01	
8/31/2016	<0.01	
10/27/2016	<0.01	
1/6/2017	<0.01	
4/6/2017	<0.01	
7/12/2017	<0.01	
10/4/2017	<0.01	
1/11/2018	<0.01	
7/11/2018	<0.01	
1/18/2019		<0.01
3/27/2019		<0.01
8/28/2019		<0.01
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	0.014 (o)	
3/14/2001	<0.01	
7/16/2001	0.015 (o)	
11/1/2001	0.012 (o)	
4/25/2002	0.01	
11/20/2002	0.026 (o)	
6/6/2003	0.022 (o)	
12/12/2003	0.028 (o)	
5/26/2004	0.012 (o)	
12/7/2004	0.0073 (o)	
6/21/2005	0.0087	
12/12/2005	0.013 (o)	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/12/2015	<0.01	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/29/2016	0.0036 (J)	
9/1/2016	0.0067 (J)	
10/26/2016	0.0042 (J)	
1/6/2017	0.0042 (J)	
4/4/2017	0.0043 (J)	
7/12/2017	0.0033 (J)	
10/4/2017	0.0038 (J)	
1/11/2018	0.0029 (J)	
7/11/2018	0.0015 (J)	
1/16/2019		<0.01
3/25/2019		<0.01
8/27/2019		<0.01
10/9/2019		<0.01
4/7/2020		0.0025 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0064	
6/6/2003	0.011	
12/12/2003	<0.01	
5/26/2004	0.007	
12/7/2004	<0.01	
6/21/2005	0.0063	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/27/2016	<0.01	
8/30/2016	<0.01	
10/26/2016	<0.01	
1/3/2017	<0.01	
4/6/2017	<0.01	
7/12/2017	<0.01	
10/3/2017	<0.01	
1/10/2018	<0.01	
7/10/2018	0.0018 (J)	
1/16/2019		<0.01
3/26/2019		<0.01
8/28/2019		0.0033 (J)
10/9/2019		0.0073 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.008	
6/6/2003	0.0066	
12/12/2003	0.0056	
5/26/2004	0.0084	
12/7/2004	<0.01	
6/21/2005	0.0062	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	<0.01	
1/14/2015	<0.01	
7/17/2015	<0.01	
1/18/2016	<0.01	
7/28/2016	<0.01	
8/30/2016	<0.01	
10/26/2016	<0.01	
1/5/2017	0.0014 (J)	
4/6/2017	<0.01	
7/12/2017	<0.01	
10/3/2017	<0.01	
1/9/2018	<0.01	
7/10/2018	0.0016 (J)	
1/16/2019		<0.01
3/26/2019		0.05 (J)
8/27/2019		0.0033 (J)
10/9/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
6/6/2003	0.047	
12/12/2003	0.0086	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	0.0027	
6/23/2007	0.0027	
12/11/2007	0.0033	
6/23/2008	0.0074	
12/4/2008	0.0084	
7/7/2009	0.023	
12/20/2009	0.007	
6/20/2010	0.0047	
1/7/2011	0.018	
7/7/2011	0.019	
1/17/2012	0.0298	
7/9/2012	0.14	
1/18/2013	0.21	
7/17/2013	0.18	
1/13/2014	0.24	
7/9/2014	0.22	
1/13/2015	0.19	
7/16/2015	0.23	
1/18/2016	0.41	
7/27/2016	0.397	
10/25/2016	0.425	
1/6/2017	0.41	
4/6/2017	0.297	
7/13/2017	0.194	
10/4/2017	0.316	
1/9/2018	0.194	
7/11/2018	0.15	
1/16/2019		0.16
3/25/2019		0.18
10/8/2019		0.11
4/6/2020		0.12

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.017 (o)	
12/12/2003	0.011 (o)	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	<0.01	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/23/2008	<0.01	
11/3/2008	<0.01	
12/4/2008	<0.01	
3/25/2009	<0.01	
7/7/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/20/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	<0.01	
1/17/2012	<0.01	
4/4/2012	<0.01	
7/10/2012	<0.01	
10/9/2012	<0.01	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	<0.01	
4/3/2014	0.0015 (J)	
7/9/2014	0.0012 (J)	
10/24/2014	<0.01	
1/14/2015	<0.01	
5/10/2015	<0.01	
7/17/2015	<0.01	
10/6/2015	0.0012 (J)	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	0.00079 (J)	
4/26/2016	<0.01	
7/28/2016	<0.01	
10/24/2016	<0.01	
1/3/2017	<0.01	
4/3/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/9/2018	0.0014 (J)	
7/9/2018	<0.01	
1/16/2019		<0.01
3/25/2019		<0.01
10/7/2019		<0.01
4/6/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0069	
6/6/2003	0.16 (o)	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.0029	
12/4/2006	0.0047	
6/23/2007	0.0029	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	0.0037	
1/6/2011	<0.01	
7/7/2011	0.0045	
1/17/2012	<0.01	
7/9/2012	0.0026	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	0.0041 (J)	
1/13/2015	0.0029 (J)	
7/16/2015	0.0034 (J)	
1/17/2016	0.0046 (J)	
7/27/2016	0.0064 (J)	
1/4/2017	<0.01	
4/4/2017	0.0061 (J)	
7/12/2017	0.0067 (J)	
1/10/2018	0.0056 (J)	
7/10/2018	0.0056 (J)	
1/16/2019		0.0043 (J)
3/26/2019		0.0051 (J)
10/9/2019		<0.01
4/7/2020		0.0015 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0071	
6/6/2003	0.0098	
12/12/2003	0.0074	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	0.0036	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	0.0026	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	0.003	
7/7/2011	0.004	
1/17/2012	<0.01	
7/9/2012	0.005	
1/17/2013	0.005	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	0.0024 (J)	
1/13/2015	0.0023 (J)	
7/16/2015	0.002 (J)	
1/19/2016	0.0025 (J)	
7/26/2016	0.0027 (J)	
1/4/2017	<0.01	
4/6/2017	0.0025 (J)	
7/11/2017	0.0027 (J)	
1/11/2018	0.0019 (J)	
7/11/2018	0.0021 (J)	
1/17/2019		0.0021 (J)
3/27/2019		0.0023 (J)
10/8/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	0.0034 (J)	
1/13/2015	<0.01	
7/16/2015	0.0049 (J)	
1/18/2016	0.0058	
7/27/2016	0.0058 (J)	
1/4/2017	<0.01	
4/5/2017	0.0039 (J)	
7/10/2017	0.0062 (J)	
1/11/2018	0.0025 (J)	
7/11/2018	0.0059 (J)	
1/17/2019		<0.01
3/27/2019		0.0049 (J)
10/9/2019		0.0021 (J)
4/7/2020		0.0024 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.0063	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	0.0028	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	<0.01	
7/8/2014	0.002 (J)	
1/13/2015	0.0015 (J)	
7/16/2015	<0.01	
1/18/2016	0.0011 (J)	
7/26/2016	<0.01	
1/5/2017	<0.01	
4/6/2017	<0.01	
7/12/2017	0.0016 (J)	
1/10/2018	0.0019 (J)	
7/11/2018	0.0097 (J)	
1/16/2019		<0.01
3/26/2019		0.0029 (J)
10/8/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.03	
6/6/2003	0.0065	
12/12/2003	0.0052	
5/26/2004	<0.01	
12/7/2004	0.0074	
6/21/2005	0.01	
12/12/2005	<0.01	
4/4/2006	0.013	
6/27/2006	<0.01	
8/30/2006	0.0039	
12/4/2006	0.016	
2/15/2007	0.017	
6/23/2007	0.0076	
9/11/2007	0.012	
12/11/2007	0.017	
3/11/2008	0.012	
6/24/2008	0.0069	
11/3/2008	0.016	
12/4/2008	0.013	
3/25/2009	0.014	
7/8/2009	0.014	
9/14/2009	0.0072	
12/20/2009	0.02	
3/4/2010	0.023	
6/20/2010	0.017	
9/14/2010	0.018	
1/7/2011	0.019	
4/15/2011	0.019	
7/7/2011	0.014	
9/25/2011	0.015	
1/17/2012	0.021	
4/4/2012	0.0191	
7/9/2012	0.026	
10/9/2012	0.049	
1/18/2013	0.036	
4/5/2013	0.04	
7/17/2013	0.062	
10/11/2013	0.032	
1/14/2014	0.044	
4/3/2014	0.077 (o)	
7/9/2014	0.032	
10/24/2014	0.045	
1/14/2015	0.031	
5/10/2015	0.013	
7/17/2015	0.028	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
10/6/2015	0.02	
1/17/2016	0.028	
4/26/2016	0.0181	
7/27/2016	0.0189	
10/25/2016	0.0206	
1/5/2017	0.0172	
4/4/2017	0.0235	
7/11/2017	0.0136	
10/2/2017	0.0175	
1/9/2018	0.0103	
7/9/2018	0.0078 (J)	
1/16/2019		0.0043 (J)
3/26/2019		0.0063 (J)
10/8/2019		<0.01
4/7/2020		0.0026 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0099	
6/6/2003	0.019 (o)	
12/12/2003	0.018 (o)	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	0.0036	
1/17/2012	<0.01	
7/9/2012	0.0059	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	0.0012 (J)	
1/13/2015	0.0013 (J)	
7/16/2015	<0.01	
1/17/2016	0.0013 (J)	
7/27/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
4/3/2017	0.002 (J)	
7/11/2017	0.0022 (J)	
10/2/2017	0.0022 (J)	
1/9/2018	0.0021 (J)	
7/10/2018	0.0025 (J)	
1/17/2019		<0.01
3/26/2019		0.0026 (J)
10/8/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.0069	
6/6/2003	0.082 (o)	
12/12/2003	0.012	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	<0.01	
8/30/2006	<0.01	
12/4/2006	0.0031	
2/15/2007	0.0025	
6/23/2007	0.0032	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	0.0032	
12/5/2008	<0.01	
3/25/2009	<0.01	
7/8/2009	0.0036	
9/14/2009	0.0026	
12/20/2009	0.0031	
3/4/2010	<0.01	
6/21/2010	0.0025	
9/14/2010	0.0035	
1/7/2011	0.0036	
4/15/2011	<0.01	
7/7/2011	0.003	
9/25/2011	0.0037	
1/18/2012	<0.01	
4/4/2012	<0.01	
7/10/2012	0.0026	
10/9/2012	0.007	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	<0.01	
4/3/2014	0.0032 (J)	
7/9/2014	0.0031 (J)	
10/24/2014	0.0028 (J)	
1/14/2015	0.0034 (J)	
5/11/2015	0.0026 (J)	
7/16/2015	0.0028 (J)	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	0.0016 (J)	
1/17/2016	0.0029 (J)	
4/26/2016	0.00296 (J)	
7/28/2016	0.0026 (J)	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/5/2017	0.0033 (J)	
7/12/2017	0.0037 (J)	
10/3/2017	0.0036 (J)	
1/10/2018	0.0029 (J)	
7/10/2018	0.0025 (J)	
1/17/2019		0.0021 (J)
3/26/2019		0.0038 (J)
10/8/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.0025	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	0.0031	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	0.0012 (J)	
1/14/2015	0.002 (J)	
7/18/2015	<0.01	
1/18/2016	0.0019 (J)	
7/29/2016	0.0031 (J)	
1/5/2017	<0.01	
4/5/2017	0.0029 (J)	
7/13/2017	0.0037 (J)	
1/11/2018	0.0026 (J)	
7/11/2018	0.0032 (J)	
1/16/2019		<0.01
3/26/2019		0.0024 (J)
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	<0.01	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	<0.01	
1/5/2017	<0.01	
4/4/2017	<0.01	
7/13/2017	<0.01	
1/10/2018	<0.01	
7/10/2018	<0.01	
1/21/2019		0.0024 (J)
7/30/2019		<0.01
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.01	
1/7/2011	0.0029	
7/7/2011	<0.01	
7/8/2011	0.0046	
1/18/2012	<0.01	
7/10/2012	0.0081	
1/18/2013	0.0063	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/10/2014	0.0026 (J)	
1/12/2015	0.0031 (J)	
7/18/2015	0.003 (J)	
1/17/2016	0.0025 (J)	
7/28/2016	0.0024 (J)	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	0.0024 (J)	
7/11/2017	0.003 (J)	
10/2/2017	0.0028 (J)	
1/10/2018	0.0026 (J)	
7/9/2018	<0.01	
1/21/2019		0.0031 (J)
3/25/2019		0.0024 (J)
10/9/2019		<0.01
4/8/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	<0.01	
1/7/2011	0.0031	
7/8/2011	0.0048	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	0.006	
7/9/2014	0.0019 (J)	
1/14/2015	0.0037 (J)	
7/17/2015	0.0028 (J)	
1/17/2016	0.0039 (J)	
7/28/2016	0.0022 (J)	
1/4/2017	<0.01	
4/4/2017	0.003 (J)	
7/13/2017	0.0019 (J)	
1/9/2018	0.0046 (J)	
7/10/2018	0.0031 (J)	
1/17/2019		0.0022 (J)
3/26/2019		0.0041 (J)
10/8/2019		<0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/10/2014	0.0053	
1/14/2015	0.0013 (J)	
7/18/2015	0.0043 (J)	
1/18/2016	<0.01	
7/29/2016	0.0052 (J)	
1/4/2017	<0.01	
4/6/2017	<0.01	
7/11/2017	0.0016 (J)	
1/11/2018	0.0012 (J)	
7/11/2018	0.0025 (J)	
1/18/2019		<0.01
3/27/2019		0.002 (J)
10/9/2019		<0.01
4/7/2020		0.0014 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.014	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	0.0029	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/8/2011	<0.01	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	0.0016 (J)	
1/14/2015	<0.01	
7/17/2015	0.0029 (J)	
1/18/2016	<0.01	
7/28/2016	<0.01	
1/6/2017	<0.01	
4/6/2017	<0.01	
7/12/2017	0.0013 (J)	
1/11/2018	<0.01	
7/11/2018	<0.01	
1/18/2019		<0.01
3/27/2019		<0.01
10/9/2019		<0.01
4/8/2020		0.0015 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	0.06	
11/21/2000	0.068	
1/20/2001	0.12	
3/14/2001	0.08	
7/16/2001	0.11	
11/1/2001	0.079	
4/25/2002	0.11	
11/20/2002	0.15	
6/6/2003	0.12	
12/12/2003	0.13	
5/26/2004	0.095	
12/7/2004	0.067	
6/21/2005	0.062	
12/12/2005	0.09	
6/27/2006	0.083	
12/4/2006	0.084	
6/23/2007	0.081	
12/11/2007	0.067	
6/24/2008	0.059	
12/5/2008	0.054	
7/7/2009	0.038	
12/21/2009	0.06	
6/21/2010	0.036	
1/7/2011	0.043	
7/8/2011	0.044	
1/18/2012	0.045	
7/10/2012	0.048	
1/18/2013	0.049	
7/17/2013	0.05	
1/14/2014	0.067	
7/9/2014	0.055	
1/12/2015	0.066	
7/16/2015	0.045	
1/18/2016	0.049	
7/29/2016	0.0388	
1/6/2017	0.0341	
4/4/2017	0.0371	
7/12/2017	0.0399	
1/11/2018	0.0327	
7/11/2018	0.02	
1/16/2019		0.0022 (J)
3/25/2019		0.004 (J)
10/9/2019		<0.01
4/7/2020		0.0037 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	0.038	
11/21/2000	0.013	
1/20/2001	0.038	
12/12/2003	0.014	
12/7/2004	0.054	
6/21/2005	0.038	
12/12/2005	0.0056	
6/27/2006	0.0043	
12/4/2006	0.0044	
6/23/2007	0.0039	
12/11/2007	0.0029	
6/24/2008	0.003	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	0.0067	
7/7/2011	0.019	
1/17/2012	0.021	
7/9/2012	0.032	
1/17/2013	0.034	
7/16/2013	0.021	
1/13/2014	0.008	
7/9/2014	0.0052	
1/13/2015	0.0036 (J)	
7/16/2015	0.004 (J)	
1/18/2016	0.0069	
7/27/2016	0.0046 (J)	
1/3/2017	<0.01	
4/6/2017	0.0063 (J)	
7/12/2017	0.0064 (J)	
1/10/2018	0.0077 (J)	
7/10/2018	0.016	
1/16/2019		0.0033 (J)
3/26/2019		0.0058 (J)
10/9/2019		0.033 (J)
4/7/2020		0.0053 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
9/29/2000	0.12	
11/21/2000	0.13	
1/20/2001	0.14	
3/14/2001	0.13	
7/16/2001	0.18	
11/1/2001	0.12	
4/25/2002	0.15	
11/20/2002	0.15	
6/6/2003	0.11	
12/12/2003	0.089	
5/26/2004	0.09	
12/7/2004	0.072	
6/21/2005	0.04	
12/12/2005	0.021	
6/27/2006	0.02	
12/4/2006	0.022	
6/23/2007	0.027	
12/11/2007	0.017	
6/24/2008	0.053	
12/5/2008	0.0078	
7/7/2009	0.012	
12/21/2009	0.011	
6/20/2010	0.0083	
1/7/2011	0.0079	
7/7/2011	0.007	
1/18/2012	0.0116	
7/10/2012	0.0096	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	<0.01	
7/9/2014	0.0039 (J)	
1/14/2015	0.005	
7/17/2015	0.0045 (J)	
1/18/2016	0.0044 (J)	
7/28/2016	0.0038 (J)	
1/5/2017	0.0077 (J)	
4/6/2017	0.0069 (J)	
7/12/2017	0.0098 (J)	
1/9/2018	0.0086 (J)	
7/10/2018	0.0098 (J)	
1/16/2019		0.077
3/26/2019		0.086
10/9/2019		0.018 (J)
4/7/2020		0.041 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
6/6/2003	0.69 (o)	
12/12/2003	0.12 (o)	
5/26/2004	0.013	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.014	
6/27/2006	0.01	
12/4/2006	0.0065	
6/23/2007	0.0049	
12/11/2007	0.0043	
6/23/2008	0.0025	
12/4/2008	0.0025	
7/7/2009	<0.01	
12/20/2009	0.0031	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	0.0031	
1/17/2012	0.004	
7/9/2012	0.0096	
1/18/2013	0.051	
7/17/2013	0.042	
1/13/2014	0.0025	
7/9/2014	0.064	
1/13/2015	0.066	
7/16/2015	0.036	
1/18/2016	0.035	
7/27/2016	0.0529	
10/25/2016	0.0035 (J)	
1/6/2017	0.0235	
4/6/2017	0.0829	
7/13/2017	0.0853	
10/4/2017	0.0263	
1/9/2018	0.0665	
7/11/2018	0.02 (J)	
1/16/2019		0.014 (J)
3/25/2019		<0.05 (o)
10/8/2019		0.095
4/6/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
9/29/2000	<0.01	
1/20/2001	0.025 (o)	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.016 (o)	
6/6/2003	0.032 (o)	
12/12/2003	0.019 (o)	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.01	
4/4/2006	<0.01	
6/27/2006	0.0043	
8/30/2006	0.017 (o)	
12/4/2006	0.0053	
2/15/2007	0.0045	
6/23/2007	0.0043	
9/11/2007	0.004	
12/11/2007	0.0048	
3/11/2008	0.0043	
6/23/2008	0.0037	
11/3/2008	0.0032	
12/4/2008	0.0029	
3/25/2009	0.0055	
7/7/2009	0.0028	
9/14/2009	0.0027	
12/20/2009	0.0029	
3/4/2010	0.0042	
6/20/2010	0.0027	
9/14/2010	<0.01	
1/7/2011	0.0032	
4/15/2011	<0.01	
7/7/2011	0.005	
9/25/2011	0.0041	
1/17/2012	0.0043	
4/4/2012	<0.01	
7/10/2012	0.0028	
10/9/2012	0.0033	
1/18/2013	0.0038	
4/5/2013	0.0026	
7/17/2013	<0.01	
10/11/2013	0.0046	
1/14/2014	0.0025	
4/3/2014	0.0029	
7/9/2014	0.002 (J)	
10/24/2014	0.0031	
1/14/2015	0.003	
5/10/2015	0.0028	
7/17/2015	0.0018 (J)	
10/6/2015	0.0018 (J)	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
1/18/2016	0.0028	
4/26/2016	<0.01	
7/28/2016	0.0018 (J)	
10/24/2016	0.0024 (J)	
1/3/2017	0.0035 (J)	
4/3/2017	0.0041 (J)	
7/11/2017	0.0029 (J)	
10/2/2017	0.0026 (J)	
1/9/2018	0.0035 (J)	
7/9/2018	0.0022 (J)	
1/16/2019		0.0037 (J)
3/25/2019		<0.01
10/7/2019		0.0077 (J)
4/6/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.011	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	0.0025	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	<0.01	
1/13/2014	0.0025	
7/9/2014	<0.01	
1/13/2015	0.0025	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	<0.01	
7/12/2017	<0.01	
1/10/2018	0.0014 (J)	
7/10/2018	0.0021 (J)	
1/16/2019		<0.01
3/26/2019		<0.01
10/9/2019		0.0057 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	0.013	
5/26/2004	<0.01	
12/7/2004	0.028 (o)	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.0028	
12/4/2006	0.0028	
6/23/2007	0.0063	
12/11/2007	<0.01	
6/23/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	0.0043	
7/9/2012	<0.01	
1/17/2013	0.0025	
7/16/2013	<0.01	
1/13/2014	0.0025	
7/8/2014	0.0011 (J)	
1/13/2015	0.0021 (J)	
7/16/2015	<0.01	
1/19/2016	0.0029	
7/26/2016	<0.01	
1/4/2017	<0.01	
4/6/2017	0.004 (J)	
7/11/2017	<0.01	
1/11/2018	0.0018 (J)	
7/11/2018	<0.01	
1/17/2019		<0.01
3/27/2019		<0.01
10/8/2019		0.0061 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
9/29/2000	0.38 (o)	
11/21/2000	0.077 (o)	
1/20/2001	0.23 (o)	
3/14/2001	0.24 (o)	
7/16/2001	0.053 (o)	
11/1/2001	0.022 (o)	
4/25/2002	1.2 (o)	
11/20/2002	0.045 (o)	
6/6/2003	0.042 (o)	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.012 (o)	
12/4/2006	0.0067	
6/23/2007	0.025 (o)	
12/11/2007	0.0038	
6/23/2008	0.0051	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/21/2009	0.013 (o)	
6/20/2010	<0.01	
1/7/2011	0.004	
7/7/2011	0.0028	
1/17/2012	0.0043	
7/9/2012	<0.01	
1/17/2013	0.0033	
7/16/2013	0.0028	
1/13/2014	0.0025	
7/8/2014	0.002 (J)	
1/13/2015	0.0079	
7/16/2015	0.0026	
1/18/2016	0.0025	
7/27/2016	0.0021 (J)	
1/4/2017	0.0025 (J)	
4/5/2017	0.0026 (J)	
7/10/2017	0.0023 (J)	
1/11/2018	0.0031 (J)	
7/11/2018	0.0036 (J)	
1/17/2019		0.0032 (J)
3/27/2019		0.0031 (J)
10/9/2019		0.0057 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	0.044 (o)	
4/25/2002	<0.01	
11/20/2002	0.023	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	0.035	
12/7/2004	0.018	
6/21/2005	0.014	
12/12/2005	0.023	
6/27/2006	0.023	
12/4/2006	0.046 (o)	
6/23/2007	0.036	
12/11/2007	0.011	
6/23/2008	0.0091	
12/4/2008	0.0038	
7/8/2009	<0.01	
12/21/2009	0.0032	
6/20/2010	<0.01	
1/6/2011	0.004	
7/7/2011	0.0037	
1/17/2012	0.0031	
7/9/2012	0.003	
1/17/2013	<0.01	
7/16/2013	0.0029	
1/13/2014	0.0025	
7/8/2014	0.0018 (J)	
1/13/2015	0.0028	
7/16/2015	0.0018 (J)	
1/18/2016	0.0017 (J)	
7/26/2016	0.0028 (J)	
1/5/2017	0.0021 (J)	
4/6/2017	0.0027 (J)	
7/12/2017	0.0043 (J)	
1/10/2018	0.0021 (J)	
7/11/2018	0.0039 (J)	
1/16/2019		0.047
3/26/2019		0.03
10/8/2019		0.053
4/8/2020		0.023

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State

Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.011	
4/4/2006	<0.01	
6/27/2006	0.0045	
8/30/2006	<0.01	
12/4/2006	<0.01	
2/15/2007	<0.01	
6/23/2007	<0.01	
9/11/2007	<0.01	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	<0.01	
12/4/2008	<0.01	
3/25/2009	<0.01	
7/8/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/20/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	<0.01	
1/17/2012	<0.01	
4/4/2012	<0.01	
7/9/2012	<0.01	
10/9/2012	<0.01	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	0.0025	
4/3/2014	0.0014 (J)	
7/9/2014	0.00086 (J)	
10/24/2014	0.00083 (J)	
1/14/2015	<0.01	
5/10/2015	<0.01	
7/17/2015	<0.01	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
10/6/2015	<0.01	
1/17/2016	<0.01	
4/26/2016	<0.01	
7/27/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
4/4/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	0.0026 (J)	
1/9/2018	0.0018 (J)	
7/9/2018	<0.01	
1/16/2019		<0.01
3/26/2019		<0.01
10/8/2019		0.0052 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.064 (o)	
6/27/2006	0.011	
12/4/2006	0.0033	
6/23/2007	0.0029	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	0.0025	
7/9/2014	<0.01	
1/13/2015	<0.01	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
4/3/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/9/2018	<0.01	
7/10/2018	<0.01	
1/17/2019		<0.01
3/26/2019		<0.01
10/8/2019		0.0051 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	0.035 (o)	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
4/4/2006	<0.01	
6/27/2006	0.077 (o)	
8/30/2006	0.0027	
12/4/2006	<0.01	
2/15/2007	0.0032	
6/23/2007	0.0058	
9/11/2007	0.0033	
12/11/2007	<0.01	
3/11/2008	<0.01	
6/24/2008	<0.01	
11/3/2008	0.0025	
12/5/2008	<0.01	
3/25/2009	0.0025	
7/8/2009	<0.01	
9/14/2009	<0.01	
12/20/2009	<0.01	
3/4/2010	<0.01	
6/21/2010	<0.01	
9/14/2010	<0.01	
1/7/2011	<0.01	
4/15/2011	<0.01	
7/7/2011	<0.01	
9/25/2011	0.0028	
1/18/2012	0.0029	
4/4/2012	<0.01	
7/10/2012	<0.01	
10/9/2012	0.0027	
1/18/2013	<0.01	
4/5/2013	<0.01	
7/17/2013	<0.01	
10/11/2013	<0.01	
1/14/2014	0.0025	
4/3/2014	0.0015 (J)	
7/9/2014	0.0012 (J)	
10/24/2014	0.0013 (J)	
1/14/2015	0.0017 (J)	
5/11/2015	0.0015 (J)	
7/16/2015	<0.01	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
10/6/2015	<0.01	
1/17/2016	<0.01	
4/26/2016	<0.01	
7/28/2016	<0.01	
10/25/2016	<0.01	
1/4/2017	0.0025 (J)	
4/5/2017	0.0025 (J)	
7/12/2017	0.002 (J)	
10/3/2017	<0.01	
1/10/2018	0.0016 (J)	
7/10/2018	0.0031 (J)	
1/17/2019		<0.01
3/26/2019		<0.01
10/8/2019		0.01
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.014	
6/6/2003	0.012	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	<0.01	
6/27/2006	0.0046	
12/4/2006	0.0071	
6/23/2007	0.005	
12/11/2007	0.0033	
6/24/2008	0.0037	
12/5/2008	0.0027	
7/8/2009	0.0048	
12/21/2009	0.0032	
6/21/2010	0.0028	
1/7/2011	0.003	
7/8/2011	0.0034	
1/18/2012	0.0049	
7/10/2012	0.0039	
1/18/2013	0.0043	
7/17/2013	0.0035	
1/14/2014	0.0025	
7/9/2014	0.0033	
1/14/2015	0.0067	
7/18/2015	<0.01	
1/18/2016	0.012	
7/29/2016	0.0086 (J)	
1/5/2017	0.016	
4/5/2017	0.0175	
7/13/2017	0.0126	
1/11/2018	0.012	
7/11/2018	0.011	
1/16/2019		0.0094 (J)
3/26/2019		0.0057 (J)
10/9/2019		0.011
4/8/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
11/21/2000	0.021 (o)	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	<0.01	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.012	
6/27/2006	<0.01	
12/4/2006	<0.01	
6/23/2007	<0.01	
12/11/2007	<0.01	
6/24/2008	<0.01	
12/4/2008	<0.01	
7/8/2009	<0.01	
12/20/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
1/17/2012	<0.01	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/17/2013	<0.01	
1/13/2014	0.0025	
7/9/2014	0.00058 (J)	
1/13/2015	0.0024 (J)	
7/16/2015	<0.01	
1/17/2016	<0.01	
7/27/2016	0.0018 (J)	
1/5/2017	<0.01	
4/4/2017	0.0015 (J)	
7/13/2017	0.0014 (J)	
1/10/2018	<0.01	
7/10/2018	<0.01	
1/21/2019		<0.01
7/30/2019		0.0067 (J)
10/9/2019		0.005 (J)
4/8/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
6/21/2010	<0.01	
1/7/2011	<0.01	
7/7/2011	<0.01	
7/8/2011	0.086 (J,o)	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	0.0032	
7/17/2013	<0.01	
1/14/2014	0.0025	
7/10/2014	<0.01	
1/12/2015	<0.01	
7/18/2015	<0.01	
1/17/2016	<0.01	
7/28/2016	<0.01	
10/25/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	<0.01	
7/11/2017	<0.01	
10/2/2017	<0.01	
1/10/2018	0.0034 (J)	
7/9/2018	<0.01	
1/21/2019		<0.01
3/25/2019		<0.01
10/9/2019		0.0049 (J)
4/8/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
6/21/2010	0.04 (o)	
1/7/2011	<0.01	
7/8/2011	0.0044	
1/18/2012	<0.01	
7/10/2012	<0.01	
1/18/2013	<0.01	
7/17/2013	<0.01	
1/14/2014	0.0025	
7/9/2014	0.00084 (J)	
1/14/2015	0.0018 (J)	
7/17/2015	<0.01	
1/17/2016	<0.01	
7/28/2016	<0.01	
1/4/2017	<0.01	
4/4/2017	0.0015 (J)	
7/13/2017	0.002 (J)	
1/9/2018	0.0016 (J)	
7/10/2018	<0.01	
1/17/2019		<0.01
3/26/2019		<0.01
10/8/2019		0.0071 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
6/21/2010	<0.01	
1/7/2011	0.019	
7/8/2011	0.1 (o)	
1/18/2012	0.0051	
7/10/2012	0.01	
1/18/2013	0.0036	
7/17/2013	0.0025	
1/14/2014	0.0025	
7/10/2014	0.024	
1/14/2015	0.0016 (J)	
7/18/2015	0.014	
1/18/2016	<0.01	
7/29/2016	0.0129	
1/4/2017	0.006 (J)	
4/6/2017	0.0031 (J)	
7/11/2017	0.0029 (J)	
1/11/2018	0.0106	
7/11/2018	0.0057 (J)	
1/18/2019		0.0024 (J)
3/27/2019		<0.01
10/9/2019		0.0079 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	<0.01	
3/14/2001	<0.01	
7/16/2001	<0.01	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.033 (o)	
6/6/2003	<0.01	
12/12/2003	<0.01	
5/26/2004	<0.01	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.032 (o)	
6/27/2006	0.018 (o)	
12/4/2006	0.0044	
6/23/2007	0.0041	
12/11/2007	0.0039	
6/23/2008	<0.01	
12/4/2008	0.0039	
7/8/2009	<0.01	
12/21/2009	0.004	
6/20/2010	<0.01	
1/7/2011	0.0032	
7/8/2011	0.0025	
1/18/2012	0.0045	
7/10/2012	<0.01	
1/18/2013	0.0029	
7/17/2013	<0.01	
1/14/2014	0.0025	
7/9/2014	0.0016 (J)	
1/14/2015	0.0024 (J)	
7/17/2015	0.0031	
1/18/2016	0.0059	
7/28/2016	0.0019 (J)	
1/6/2017	0.0026 (J)	
4/6/2017	0.0047 (J)	
7/12/2017	0.003 (J)	
1/11/2018	0.0046 (J)	
7/11/2018	0.0033 (J)	
1/18/2019		0.0025 (J)
3/27/2019		0.0026 (J)
10/9/2019		0.0054 (J)
4/8/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/29/2000	<0.01	
11/21/2000	<0.01	
1/20/2001	0.041	
3/14/2001	<0.01	
7/16/2001	0.059	
11/1/2001	<0.01	
4/25/2002	<0.01	
11/20/2002	0.061	
6/6/2003	0.041	
12/12/2003	0.012	
5/26/2004	0.016	
12/7/2004	<0.01	
6/21/2005	<0.01	
12/12/2005	0.017	
6/27/2006	0.11	
12/4/2006	0.086	
6/23/2007	0.076	
12/11/2007	0.087	
6/24/2008	0.062	
12/5/2008	0.014	
7/7/2009	0.052	
12/21/2009	0.046	
6/21/2010	0.045	
1/7/2011	0.024	
7/8/2011	0.023	
1/18/2012	0.011	
7/10/2012	0.024	
1/18/2013	0.011	
7/17/2013	0.0029	
1/14/2014	0.0025	
7/9/2014	0.0051	
1/12/2015	0.0023 (J)	
7/16/2015	0.0021 (J)	
1/18/2016	0.0092	
7/29/2016	0.003 (J)	
1/6/2017	0.0104	
4/4/2017	0.0132	
7/12/2017	0.0046 (J)	
1/11/2018	0.0095 (J)	
7/11/2018	0.0028 (J)	
1/16/2019		0.0052 (J)
3/25/2019		0.0078 (J)
10/9/2019		0.0064 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
9/29/2000	0.026 (o)	
11/21/2000	<0.01	
1/20/2001	0.031 (o)	
3/14/2001	0.063 (o)	
7/16/2001	0.08 (o)	
11/1/2001	0.16 (o)	
4/25/2002	<0.01	
11/20/2002	0.14 (o)	
6/6/2003	0.51 (o)	
12/12/2003	<0.01	
5/26/2004	0.036 (o)	
12/7/2004	0.069 (o)	
6/21/2005	0.076 (o)	
12/12/2005	<0.01	
6/27/2006	0.01	
12/4/2006	0.0035	
6/23/2007	0.0032	
12/11/2007	0.0079	
6/24/2008	<0.01	
12/5/2008	<0.01	
7/7/2009	<0.01	
12/21/2009	<0.01	
6/20/2010	<0.01	
1/6/2011	<0.01	
7/7/2011	0.0027	
1/17/2012	0.0039	
7/9/2012	<0.01	
1/17/2013	<0.01	
7/16/2013	0.0032	
1/13/2014	0.0025	
7/9/2014	0.00076 (J)	
1/13/2015	0.0036	
7/16/2015	<0.01	
1/18/2016	<0.01	
7/27/2016	0.0015 (J)	
1/3/2017	<0.01	
4/6/2017	0.0023 (J)	
7/12/2017	<0.01	
1/10/2018	0.0022 (J)	
7/10/2018	<0.01	
1/16/2019		<0.01
3/26/2019		<0.01
10/9/2019		0.0081 (J)
4/7/2020		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/24/2020 8:59 AM View: PL's State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
6/27/2006	0.0071	
12/4/2006	0.0096	
1/7/2011	0.0044	
7/7/2011	0.003	
1/18/2012	0.0048	
7/10/2012	<0.01	
1/18/2013	0.0028	
7/17/2013	<0.01	
1/14/2014	0.0025	
7/9/2014	0.00093 (J)	
1/14/2015	0.0023 (J)	
7/17/2015	<0.01	
1/18/2016	0.0029	
7/28/2016	<0.01	
1/5/2017	<0.01	
4/6/2017	0.0032 (J)	
7/12/2017	0.002 (J)	
1/9/2018	0.0036 (J)	
7/10/2018	0.0055 (J)	
1/16/2019		<0.01
3/26/2019		<0.01
10/9/2019		0.016 (J)
4/7/2020		<0.01

FIGURE F.

Trend Test Summary (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/26/2020, 9:36 AM

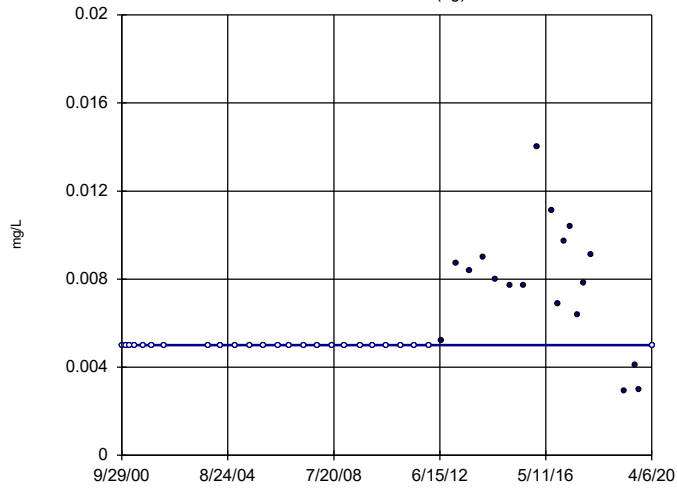
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	0	2.798	2.58	Yes	43	58.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.444	-2.58	Yes	68	91.18	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-1	0	-3.593	-2.58	Yes	46	58.7	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.002715	7.536	2.58	Yes	48	52.08	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.02201	126	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002605	-7.718	-2.58	Yes	65	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	-0.002832	-5.38	-2.58	Yes	67	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.00615	171	124	Yes	27	0	n/a	n/a	0.01	NP

Trend Test Summary (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/26/2020, 9:36 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-7 (bg)	0	2.798	2.58	Yes	43	58.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWA-8 (bg)	0	-3.444	-2.58	Yes	68	91.18	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-1	0	-3.593	-2.58	Yes	46	58.7	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-15	0.002715	7.536	2.58	Yes	48	52.08	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.02201	126	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	-0.0003887	-0.4366	-2.58	No	46	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-8 (bg)	-0.002605	-7.718	-2.58	Yes	65	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	-0.002832	-5.38	-2.58	Yes	67	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-16	0.0008429	2.186	2.58	No	64	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-20	0.00615	171	124	Yes	27	0	n/a	n/a	0.01	NP

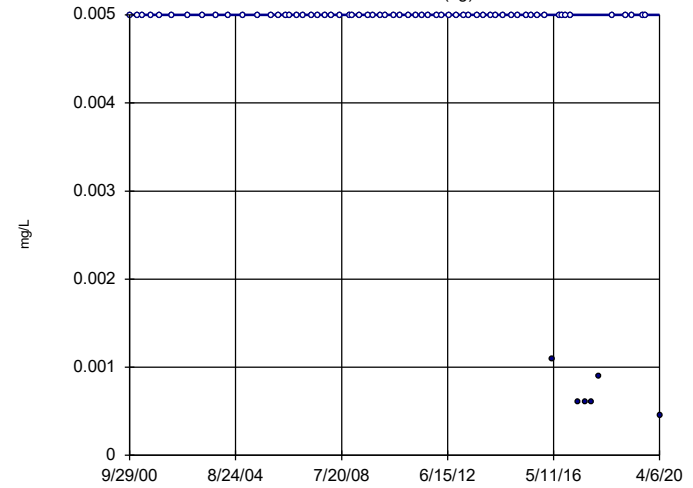
Sen's Slope Estimator
GWA-7 (bg)



n = 43
Slope = 0
units per year.
Mann-Kendall
normal approx. =
2.798
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

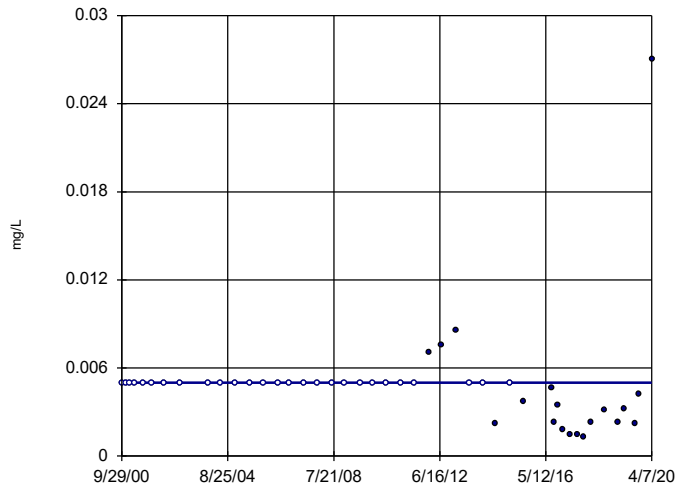
Sen's Slope Estimator
GWA-8 (bg)



n = 68
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.444
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

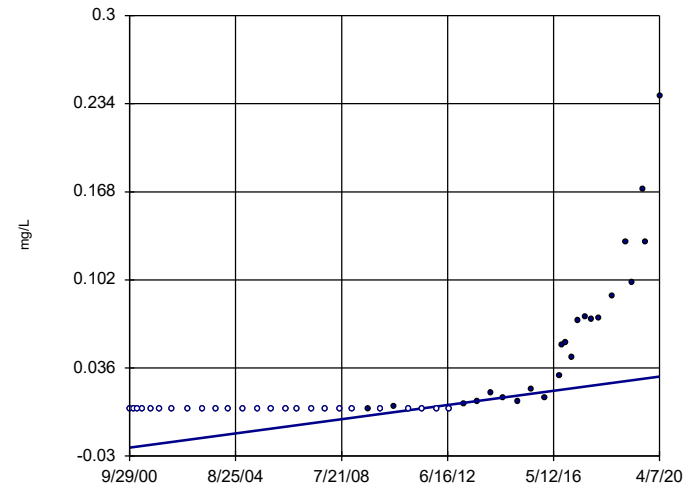
Sen's Slope Estimator
GWC-1



n = 46
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.593
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

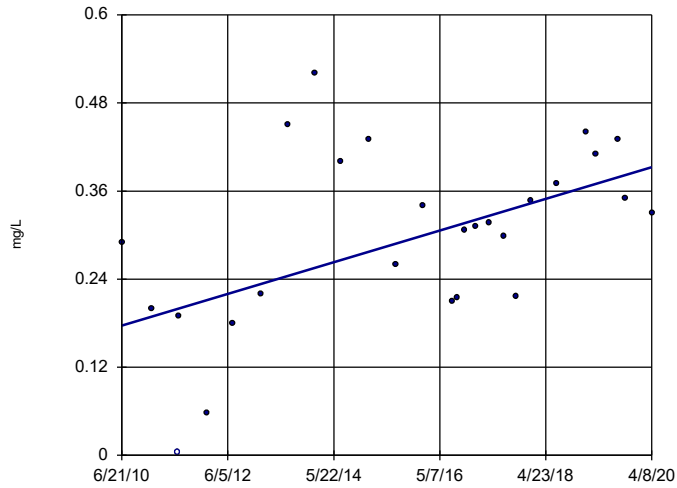
Sen's Slope Estimator
GWC-15



n = 48
Slope = 0.002715
units per year.
Mann-Kendall
normal approx. =
7.536
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

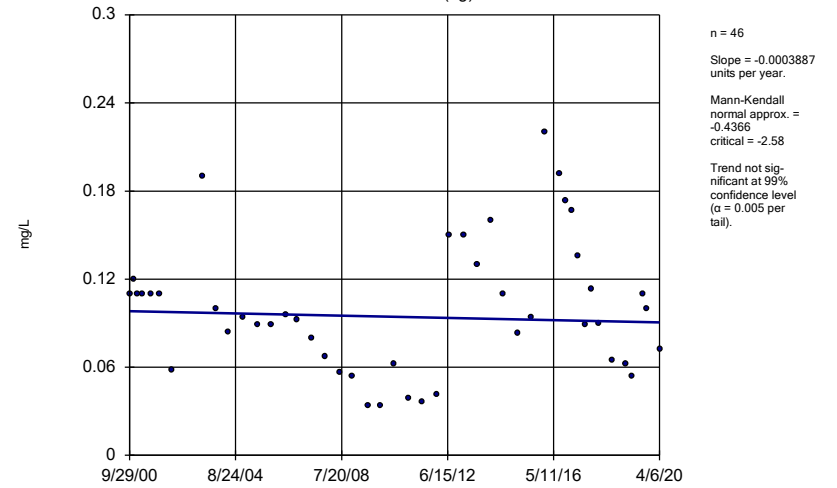
Constituent: Arsenic Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWC-20



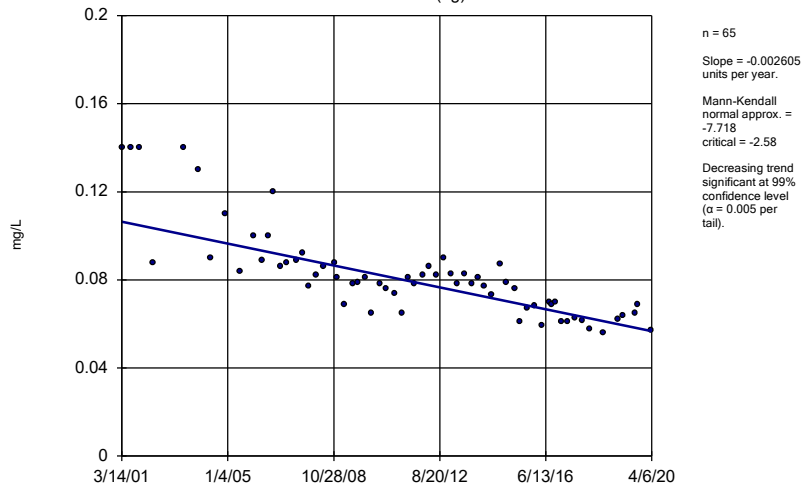
Constituent: Arsenic Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWA-7 (bg)



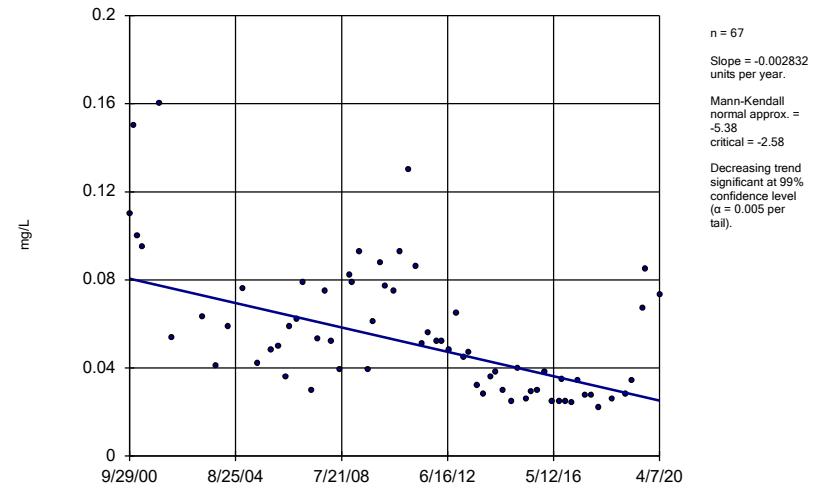
Constituent: Barium Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWA-8 (bg)



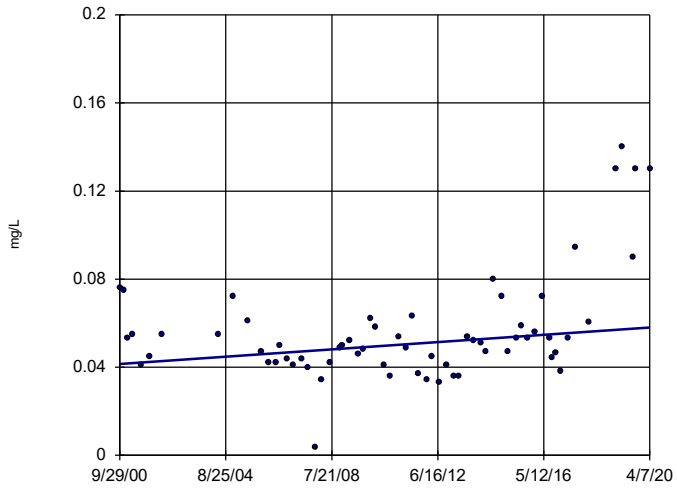
Constituent: Barium Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWC-14



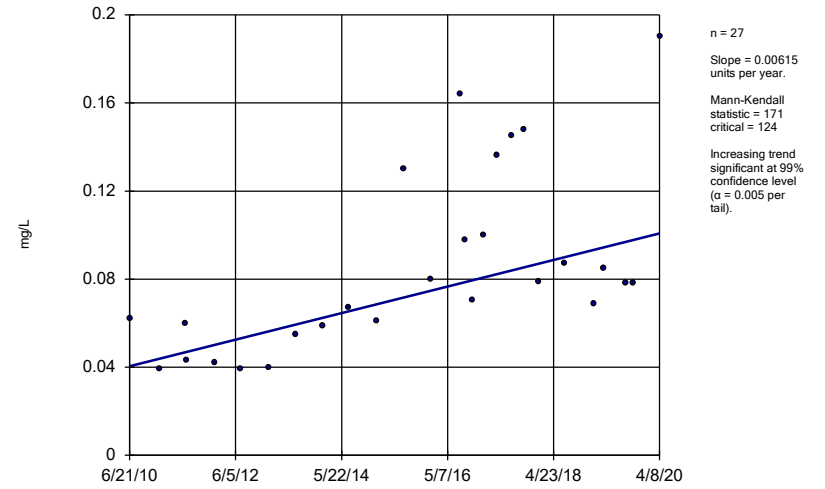
Constituent: Barium Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-16



Constituent: Barium Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-20



Constituent: Barium Analysis Run 5/26/2020 9:35 AM View: Trend Tests - State PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

FIGURE G.

Intrawell Prediction Limits (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:16 PM

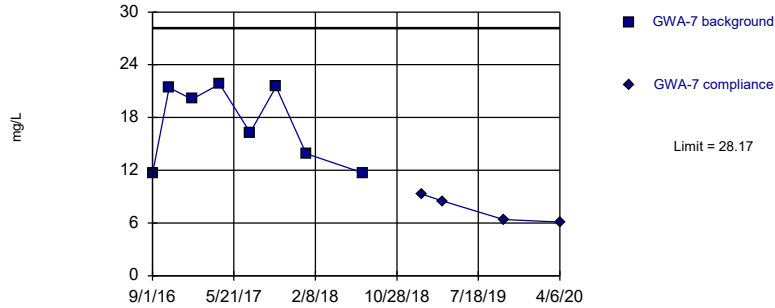
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-6R	4.2	n/a	4/7/2020	5.6	8	2.62	0.6468	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-11	0.3714	n/a	4/7/2020	0.67	8	-2.326	0.5469	0	None	ln(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-16	6.286	n/a	4/7/2020	10.5	8	2.815	1.422	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	n/a	4/7/2020	775	8	428.3	57.63	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	760	n/a	4/7/2020	780	8	264.3	203	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	n/a	4/7/2020	1500	8	893.1	201.8	0	None	No	0.0004702	Param 1 of 3

Intrawell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-7	28.17	n/a	4/6/2020	6.1	8	17.29	4.455	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWA-8	0.1446	n/a	4/6/2020	0.14	8	0.1185	0.0107	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-4R	9.727	n/a	4/7/2020	5.5	8	7.539	0.8959	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-5R	7.397	n/a	4/7/2020	4.6	8	3.278	1.687	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWB-6R	4.2	n/a	4/7/2020	5.6	8	2.62	0.6468	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-1	1.625	n/a	4/7/2020	1	8	1.067	0.2284	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-11	0.3714	n/a	4/7/2020	0.67	8	-2.326	0.5469	0	None	ln(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-12	9.63	n/a	4/7/2020	5.3	8	6.358	1.34	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-13	0.3009	n/a	4/8/2020	0.28	8	0.1458	0.06354	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-14	0.08961	n/a	4/7/2020	0.061	8	0.07295	0.006824	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-15	1.943	n/a	4/7/2020	0.96	7	1.364	0.2101	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-16	6.286	n/a	4/7/2020	10.5	8	2.815	1.422	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-17	1.869	n/a	4/8/2020	0.99	8	0.8828	0.4041	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-2	0.05241	n/a	4/8/2020	0.031	8	0.1559	0.02991	0	None	sqrt(x)	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-20	5.558	n/a	4/8/2020	2.5	8	2.855	1.107	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-21	1.031	n/a	4/7/2020	0.24	8	0.383	0.2654	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-22	16.9	n/a	4/7/2020	3.1	8	5.403	4.71	0	None	No	0.0004702	Param 1 of 3
Boron (mg/L)	GWC-9	0.03214	n/a	4/8/2020	0.023	7	0.02137	0.003908	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWA-7	4478	n/a	4/6/2020	1670	8	3044	587.2	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWA-8	384.6	n/a	4/6/2020	214	8	227.8	64.23	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-4R	1282	n/a	4/7/2020	482	8	998.9	115.9	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-5R	559.8	n/a	4/7/2020	483	7	322.1	86.22	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWB-6R	569	n/a	4/7/2020	775	8	428.3	57.63	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-1	460.5	n/a	4/7/2020	195	8	291.9	69.05	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-11	760	n/a	4/7/2020	780	8	264.3	203	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-12	1845	n/a	4/7/2020	464	8	1213	258.9	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-13	150.3	n/a	4/8/2020	65	8	54	39.43	25	Kaplan-Meier	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-14	1226	n/a	4/7/2020	843	8	772	185.8	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-15	672	n/a	4/7/2020	428	8	544.6	52.18	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-16	1386	n/a	4/7/2020	1500	8	893.1	201.8	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-17	2945	n/a	4/8/2020	881	8	1860	444.3	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-2	157.3	n/a	4/8/2020	38	8	57.06	41.05	12.5	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	1016	n/a	4/8/2020	986	8	546.9	192	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	328.6	n/a	4/7/2020	106	8	140.6	77.02	12.5	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	2575	n/a	4/7/2020	819	8	1067	617.6	0	None	No	0.0004702	Param 1 of 3
Total Dissolved Solids (mg/L)	GWC-9	272.4	n/a	4/8/2020	80	8	188.5	34.38	0	None	No	0.0004702	Param 1 of 3

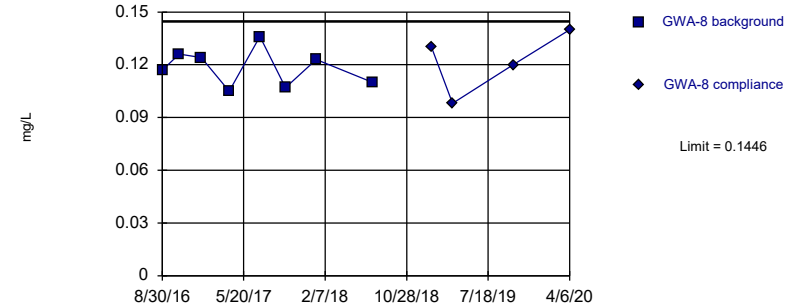
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=17.29, Std. Dev.=4.455, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8385, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

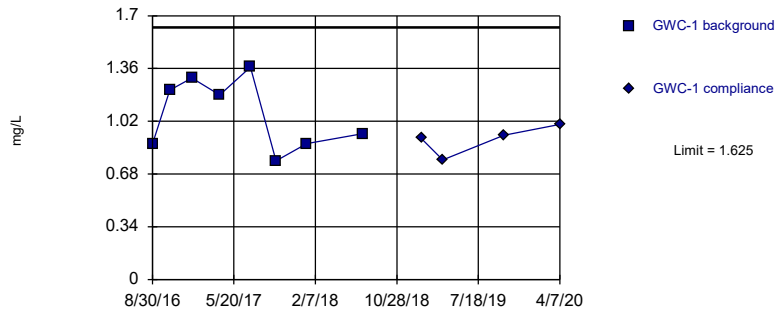
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.1185, Std. Dev.=0.0107, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

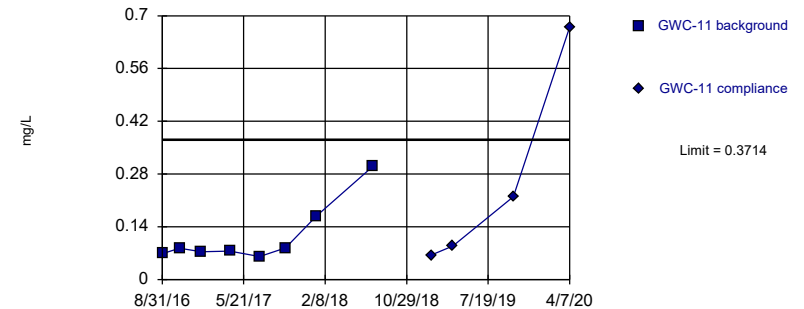
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.067, Std. Dev.=0.2284, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

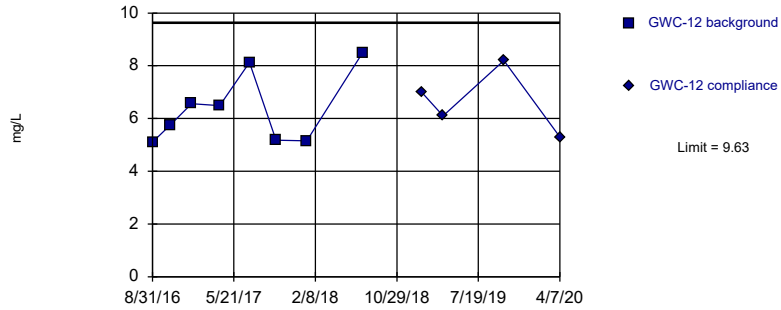
Exceeds Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-2.326, Std. Dev.=0.5469, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7728, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

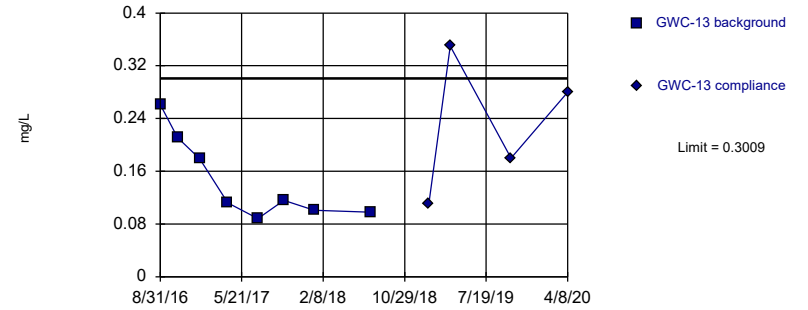
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.358, Std. Dev.=1.34, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8556, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

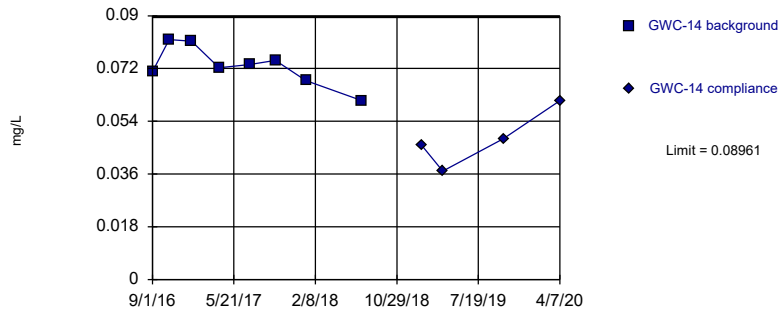
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.1458, Std. Dev.=0.06354, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8407, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

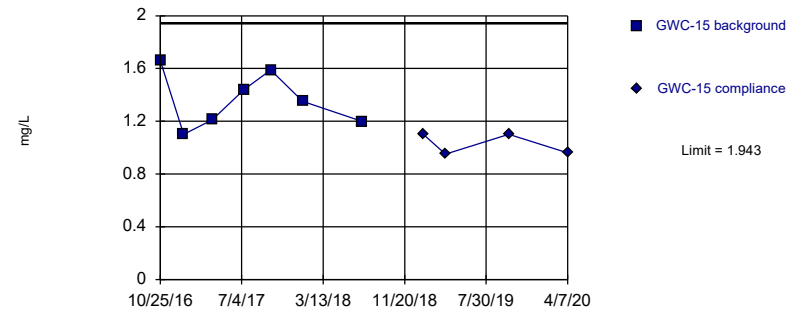
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.07295, Std. Dev.=0.006824, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric

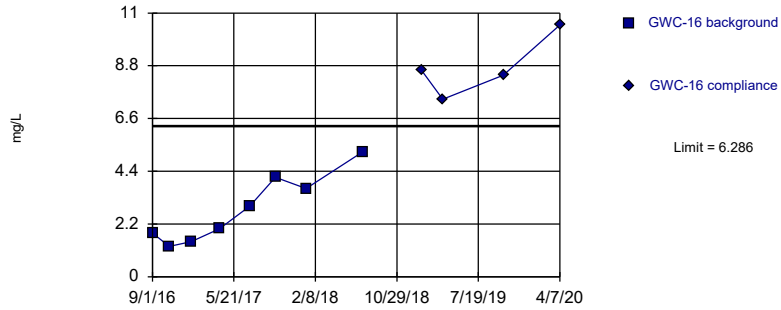


Background Data Summary: Mean=1.364, Std. Dev.=0.2101, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Parametric

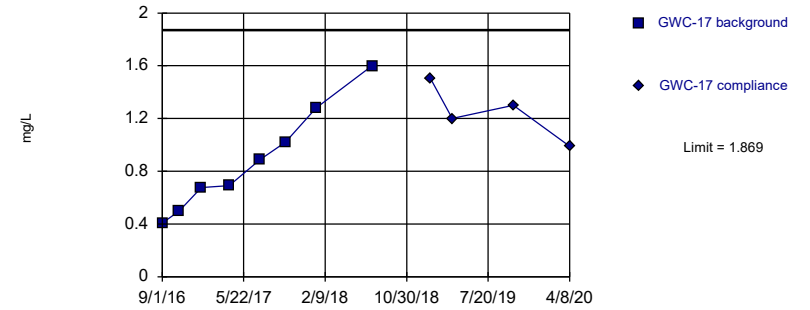


Background Data Summary: Mean=2.815, Std. Dev.=1.422, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9229, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

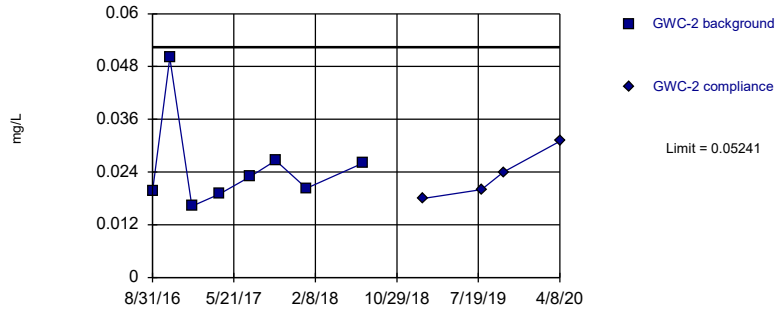


Background Data Summary: Mean=0.8828, Std. Dev.=0.4041, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

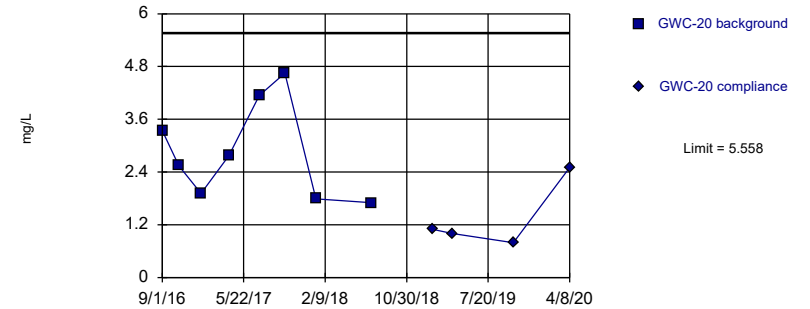


Background Data Summary (based on square root transformation): Mean=0.1559, Std. Dev.=0.02991, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.794, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

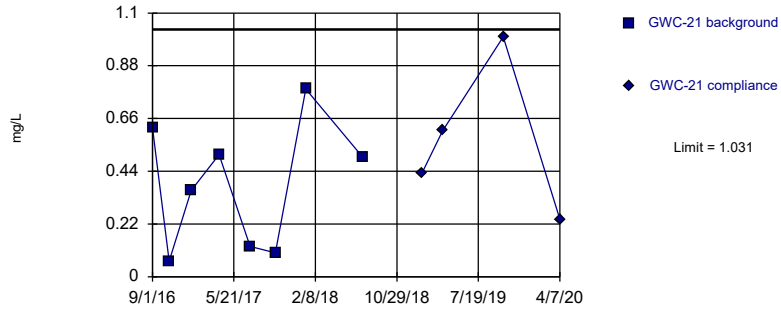
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.855, Std. Dev.=1.107, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9083, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

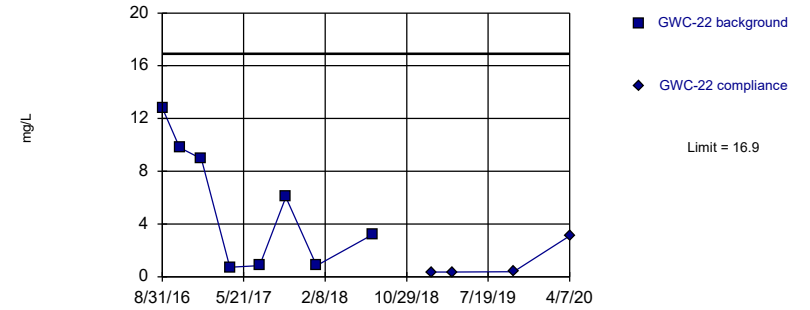
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.383, Std. Dev.=0.2654, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

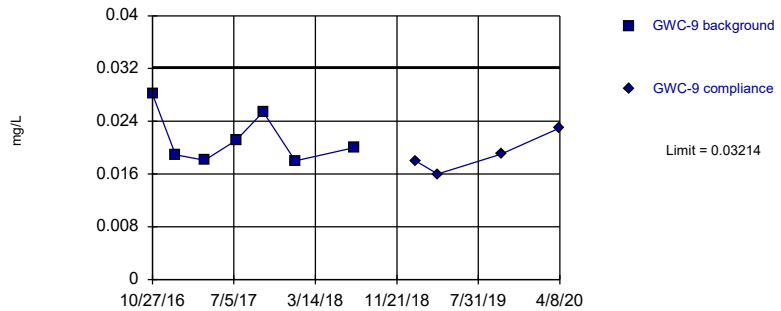
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.403, Std. Dev.=4.71, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8833, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

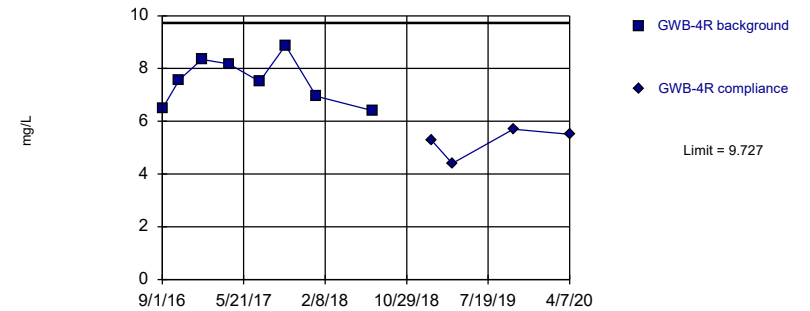
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02137, Std. Dev.=0.003908, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8482, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric

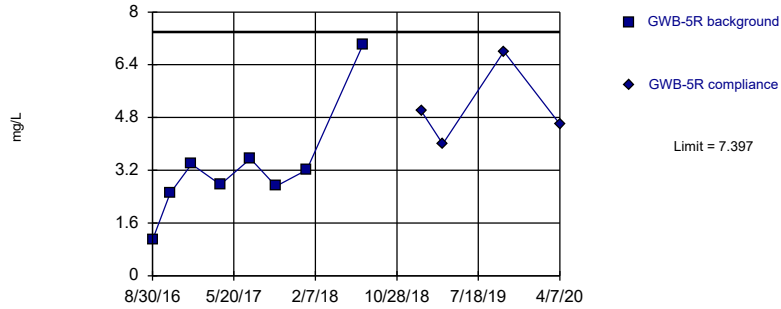


Background Data Summary: Mean=7.539, Std. Dev.=0.8959, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9474, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

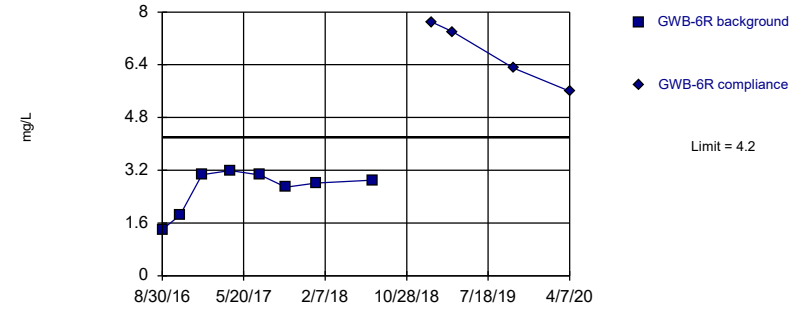


Background Data Summary: Mean=3.278, Std. Dev.=1.687, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.824, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit

Prediction Limit
Intrawell Parametric

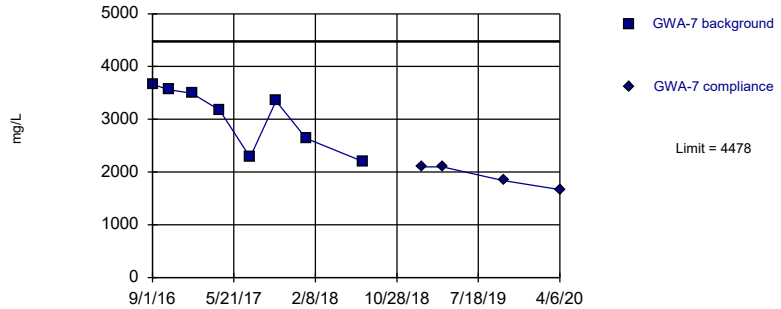


Background Data Summary: Mean=2.62, Std. Dev.=0.6468, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8089, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Boron Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

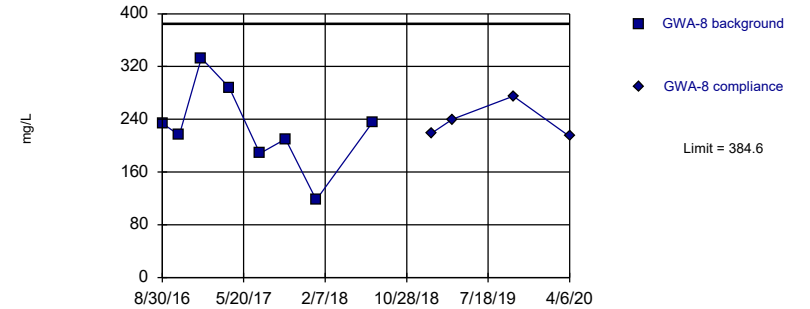


Background Data Summary: Mean=3044, Std. Dev.=587.2, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8674, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

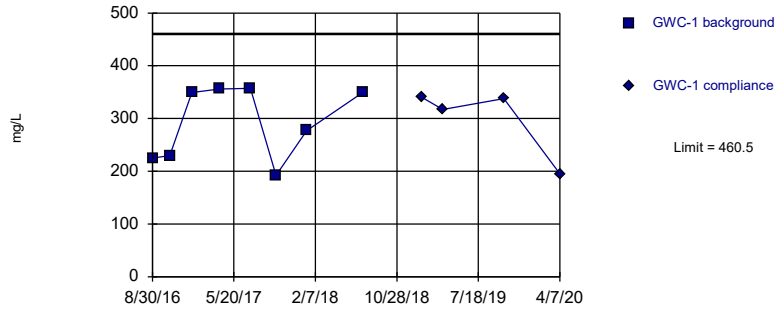
Prediction Limit
Intrawell Parametric



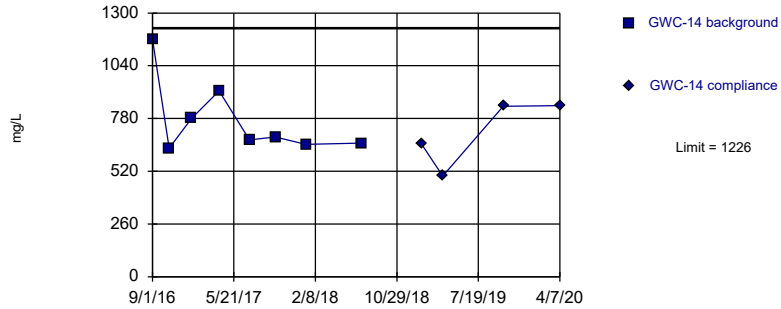
Background Data Summary: Mean=227.8, Std. Dev.=64.23, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9672, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric



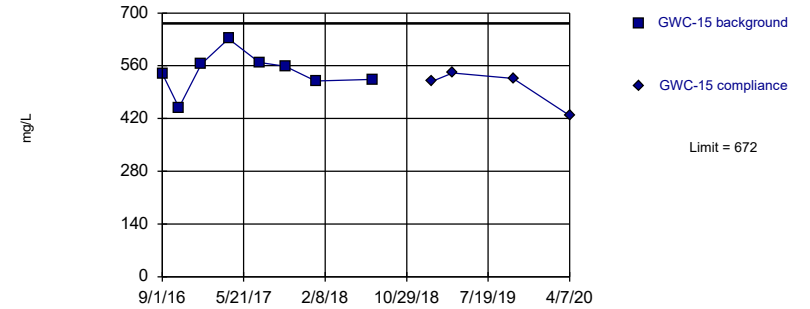
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=772, Std. Dev.=185.8, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7657, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

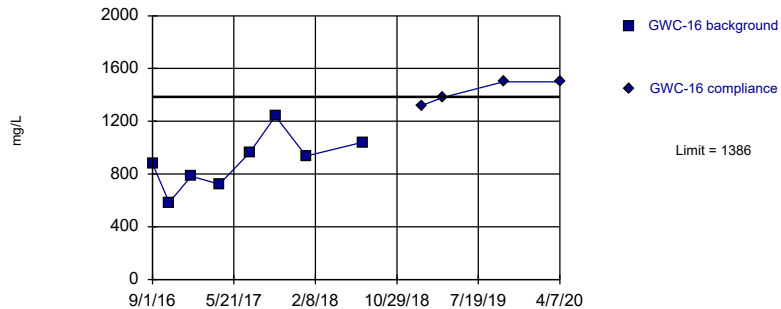
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=544.6, Std. Dev.=52.18, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9496, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

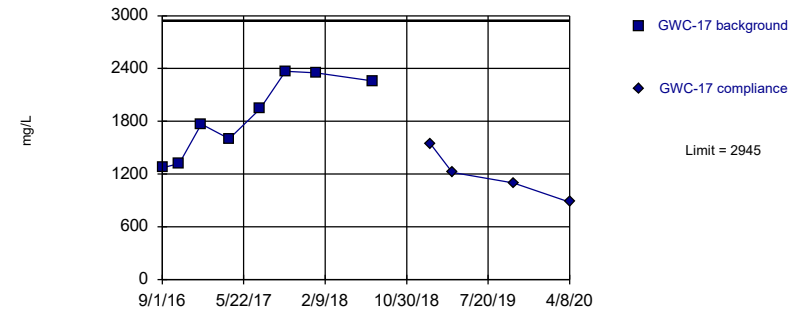
Exceeds Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=893.1, Std. Dev.=201.8, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.991, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit Prediction Limit
Intrawell Parametric

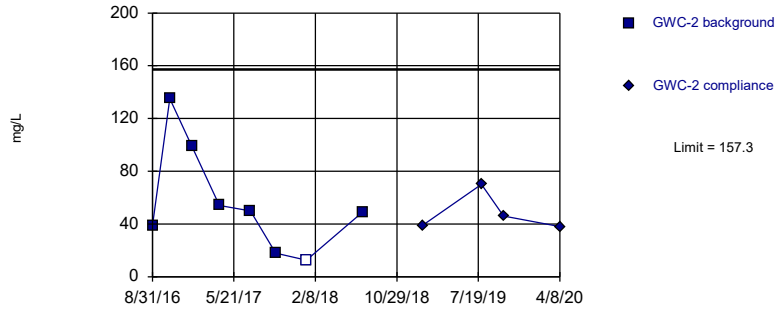


Background Data Summary: Mean=1860, Std. Dev.=444.3, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

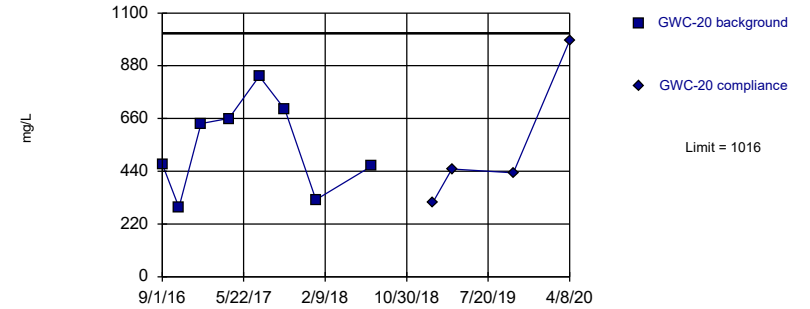


Background Data Summary: Mean=57.06, Std. Dev.=41.05, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8896, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

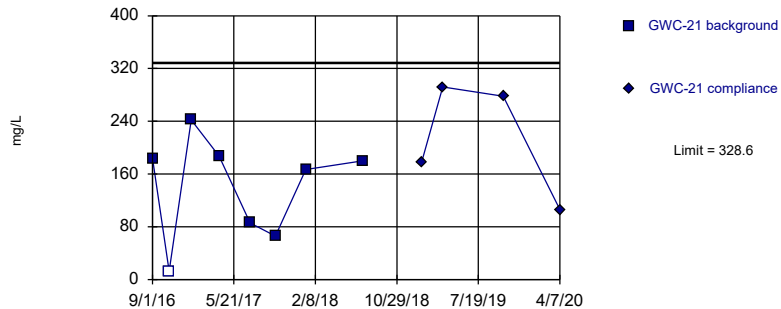


Background Data Summary: Mean=546.9, Std. Dev.=192, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

Prediction Limit
Intrawell Parametric

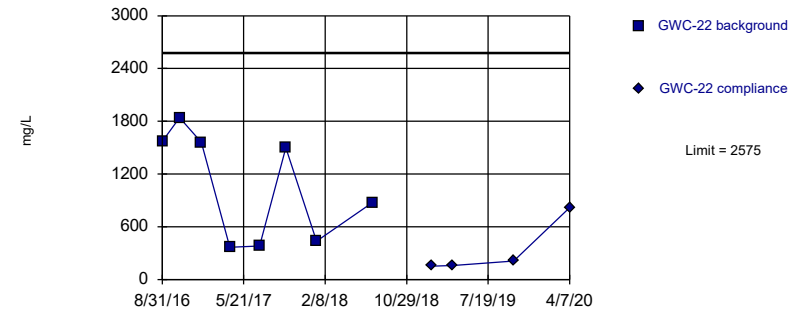


Background Data Summary: Mean=140.6, Std. Dev.=77.02, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Within Limit

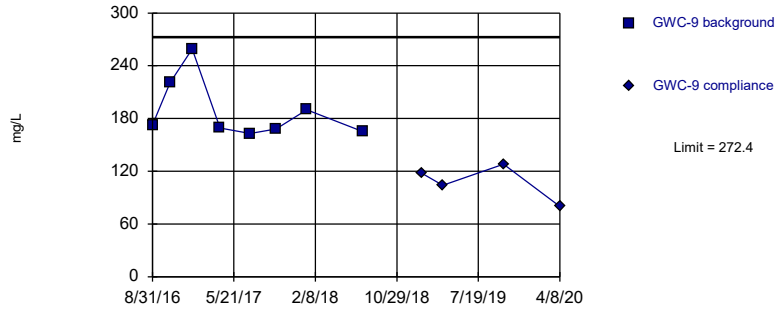
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1067, Std. Dev.=617.6, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8394, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

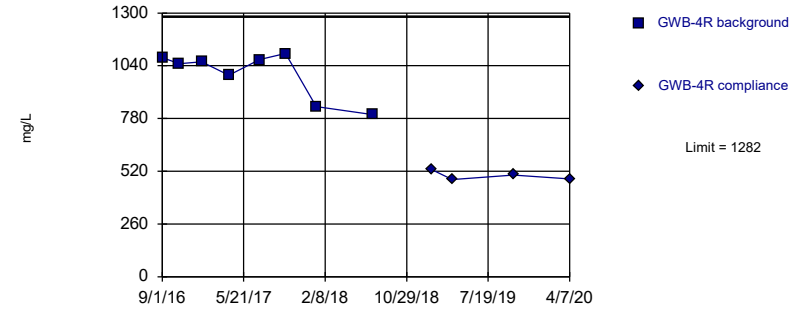
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=188.5, Std. Dev.=34.38, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7713, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

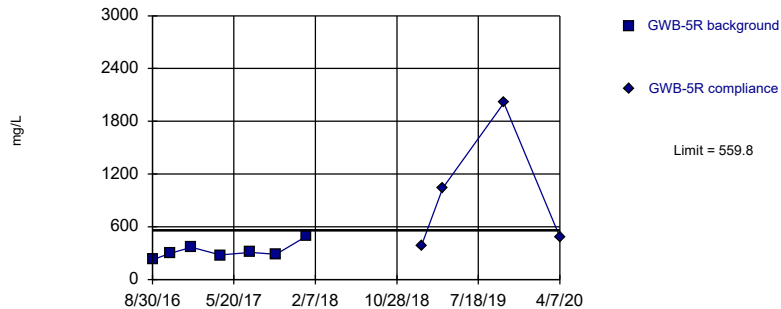
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=998.9, Std. Dev.=115.9, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7896, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

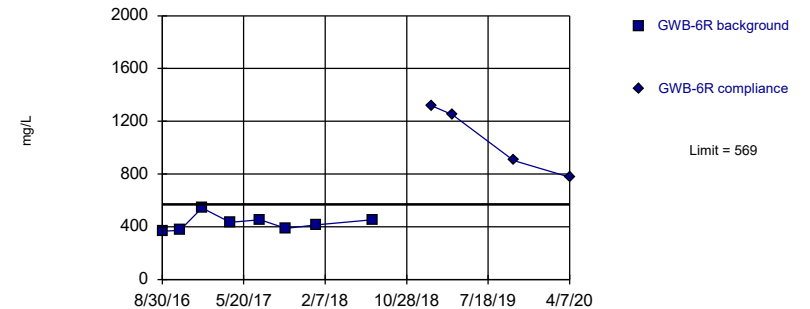
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=322.1, Std. Dev.=86.22, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8686, critical = 0.73. Kappa = 2.756 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=428.3, Std. Dev.=57.63, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.749. Kappa = 2.442 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:10 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/1/2016	11.6	
10/25/2016	21.4	
1/6/2017	20.1	
4/6/2017	21.8	
7/13/2017	16.3	
10/4/2017	21.5	
1/9/2018	13.9	
7/11/2018	11.7	
1/16/2019		9.3
3/25/2019		8.5
10/8/2019		6.4
4/6/2020		6.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
8/30/2016	0.117	
10/24/2016	0.126	
1/3/2017	0.124	
4/3/2017	0.105	
7/11/2017	0.136	
10/2/2017	0.107	
1/9/2018	0.123	
7/9/2018	0.11	
1/16/2019		0.13
3/25/2019		0.098
10/7/2019		0.12
4/6/2020		0.14

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
8/30/2016	0.875	
10/25/2016	1.22	
1/4/2017	1.3	
4/4/2017	1.19	
7/12/2017	1.37	
10/3/2017	0.765	
1/10/2018	0.876	
7/10/2018	0.94	
1/16/2019		0.91
3/26/2019		0.77
10/9/2019		0.93
4/7/2020		1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
8/31/2016	0.0688 (J)	
10/26/2016	0.083 (J)	
1/4/2017	0.0738	
4/6/2017	0.0754	
7/11/2017	0.0614	
10/3/2017	0.0838	
1/11/2018	0.169	
7/11/2018	0.3	
1/17/2019		0.065
3/27/2019		0.089
10/8/2019		0.22
4/7/2020		0.67

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
8/31/2016	5.1	
10/26/2016	5.74	
1/4/2017	6.56	
4/5/2017	6.49	
7/10/2017	8.13	
10/4/2017	5.18	
1/11/2018	5.16	
7/11/2018	8.5	
1/17/2019		7
3/27/2019		6.1
10/9/2019		8.2
4/7/2020		5.3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
8/31/2016	0.261	
10/26/2016	0.211	
1/5/2017	0.179	
4/6/2017	0.112	
7/12/2017	0.0882	
10/4/2017	0.116	
1/10/2018	0.101	
7/11/2018	0.098	
1/16/2019		0.11
3/26/2019		0.35
10/8/2019		0.18
4/8/2020		0.28

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/1/2016	0.071 (J)	
10/25/2016	0.0819 (J)	
1/5/2017	0.0813	
4/4/2017	0.0723	
7/11/2017	0.0734	
10/2/2017	0.0748	
1/9/2018	0.0679	
7/9/2018	0.061	
1/16/2019		0.046
3/26/2019		0.037 (J)
10/8/2019		0.048
4/7/2020		0.061 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/1/2016	9.01 (o)	
10/25/2016	1.66	
1/5/2017	1.1	
4/3/2017	1.21	
7/11/2017	1.44	
10/2/2017	1.59	
1/9/2018	1.35	
7/10/2018	1.2	
1/17/2019		1.1
3/26/2019		0.95
10/8/2019		1.1
4/7/2020		0.96

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/1/2016	1.82	
10/25/2016	1.26	
1/4/2017	1.46	
4/5/2017	2	
7/12/2017	2.95	
10/3/2017	4.15	
1/10/2018	3.68	
7/10/2018	5.2	
1/17/2019		8.6
3/26/2019		7.4
10/8/2019		8.4
4/7/2020		10.5

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/1/2016	0.408	
10/26/2016	0.5	
1/5/2017	0.676	
4/5/2017	0.69	
7/13/2017	0.888	
10/4/2017	1.02	
1/11/2018	1.28	
7/11/2018	1.6	
1/16/2019		1.5
3/26/2019		1.2
10/9/2019		1.3
4/8/2020		0.99

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
8/31/2016	0.0196 (J)	
10/26/2016	0.05 (J)	
1/5/2017	0.0162 (J)	
4/4/2017	0.019 (J)	
7/13/2017	0.023 (J)	
10/3/2017	0.0266 (J)	
1/10/2018	0.0203 (J)	
7/10/2018	0.026 (J)	
1/21/2019		0.018 (J)
7/30/2019		0.02 (J)
10/9/2019		0.024 (J)
4/8/2020		0.031 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
9/1/2016	3.34	
10/25/2016	2.54	
1/4/2017	1.91	
4/4/2017	2.77	
7/11/2017	4.14	
10/2/2017	4.65	
1/10/2018	1.79	
7/9/2018	1.7	
1/21/2019		1.1
3/25/2019		1
10/9/2019		0.79
4/8/2020		2.5

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
9/1/2016	0.62	
10/25/2016	0.0658 (J)	
1/4/2017	0.36	
4/4/2017	0.509	
7/13/2017	0.126	
10/3/2017	0.1	
1/9/2018	0.783	
7/10/2018	0.5	
1/17/2019		0.43
3/26/2019		0.61
10/8/2019		1
4/7/2020		0.24

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
8/31/2016	12.8	
10/26/2016	9.81	
1/4/2017	8.94	
4/6/2017	0.733	
7/11/2017	0.852	
10/4/2017	6.05	
1/11/2018	0.838	
7/11/2018	3.2	
1/18/2019		0.37
3/27/2019		0.37
10/9/2019		0.39
4/7/2020		3.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
8/31/2016	0.096 (J,o)	
10/27/2016	0.0281 (J)	
1/6/2017	0.0189 (J)	
4/6/2017	0.0181 (J)	
7/12/2017	0.0211 (J)	
10/4/2017	0.0254 (J)	
1/11/2018	0.018 (J)	
7/11/2018	0.02 (J)	
1/18/2019		0.018 (J)
3/27/2019		0.016 (J)
10/9/2019		0.019 (J)
4/8/2020		0.023 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/1/2016	6.48	
10/26/2016	7.57	
1/6/2017	8.34	
4/4/2017	8.18	
7/12/2017	7.51	
10/4/2017	8.88	
1/11/2018	6.95	
7/11/2018	6.4	
1/16/2019		5.3
3/25/2019		4.4
10/9/2019		5.7
4/7/2020		5.5

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
8/30/2016	1.09	
10/26/2016	2.5	
1/3/2017	3.39	
4/6/2017	2.76	
7/12/2017	3.55	
10/3/2017	2.72	
1/10/2018	3.21	
7/10/2018	7	
1/16/2019		5
3/26/2019		4
10/9/2019		6.8
4/7/2020		4.6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intrawell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
8/30/2016	1.41	
10/26/2016	1.83	
1/5/2017	3.07	
4/6/2017	3.19	
7/12/2017	3.06	
10/3/2017	2.69	
1/9/2018	2.81	
7/10/2018	2.9	
1/16/2019		7.7
3/26/2019		7.4
10/9/2019		6.3
4/7/2020		5.6

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7	GWA-7
9/1/2016	3660	
10/25/2016	3560	
1/6/2017	3490	
4/6/2017	3170	
7/13/2017	2280	
10/4/2017	3350	
1/9/2018	2640	
7/11/2018	2200	
1/16/2019		2100
3/25/2019		2100
10/8/2019		1840
4/6/2020		1670

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-8	GWA-8
8/30/2016	234	
10/24/2016	216	
1/3/2017	333	
4/3/2017	288	
7/11/2017	188	
10/2/2017	210	
1/9/2018	118	
7/9/2018	235	
1/16/2019		219
3/25/2019		240
10/7/2019		275
4/6/2020		214

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWC-1
8/30/2016	225	
10/25/2016	230	
1/4/2017	349	
4/4/2017	356	
7/12/2017	357	
10/3/2017	192	
1/10/2018	277	
7/10/2018	349	
1/16/2019		341
3/26/2019		317
10/9/2019		338
4/7/2020		195

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWC-11
8/31/2016	119	
10/26/2016	108	
1/4/2017	182	
4/6/2017	248	
7/11/2017	88	
10/3/2017	248	
1/11/2018	681	
7/11/2018	440	
1/17/2019		118
3/27/2019		138
10/8/2019		613
4/7/2020		780

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-12	GWC-12
8/31/2016	1560	
10/26/2016	1520	
1/4/2017	1430	
4/5/2017	1200	
7/10/2017	1100	
10/4/2017	986	
1/11/2018	1020	
7/11/2018	888	
1/17/2019		765
3/27/2019		673
10/9/2019		647
4/7/2020		464

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWC-13
8/31/2016	77	
10/26/2016	<25	
1/5/2017	146	
4/6/2017	23 (J)	
7/12/2017	39	
10/4/2017	38	
1/10/2018	<25	
7/11/2018	63	
1/16/2019		44
3/26/2019		72
10/8/2019		51
4/8/2020		65

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-14	GWC-14
9/1/2016	1170	
10/25/2016	633	
1/5/2017	781	
4/4/2017	916	
7/11/2017	675	
10/2/2017	689	
1/9/2018	653	
7/9/2018	659	
1/16/2019		656
3/26/2019		496
10/8/2019		841
4/7/2020		843

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-15
9/1/2016	539	
10/25/2016	449	
1/5/2017	565	
4/3/2017	632	
7/11/2017	569	
10/2/2017	559	
1/9/2018	520	
7/10/2018	524	
1/17/2019		518 (D)
3/26/2019		541
10/8/2019		526
4/7/2020		428

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-16	GWC-16
9/1/2016	878	
10/25/2016	585	
1/4/2017	783	
4/5/2017	722	
7/12/2017	962	
10/3/2017	1240	
1/10/2018	935	
7/10/2018	1040	
1/17/2019		1320
3/26/2019		1380
10/8/2019		1500
4/7/2020		1500

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-17	GWC-17
9/1/2016	1270	
10/26/2016	1320	
1/5/2017	1770	
4/5/2017	1600	
7/13/2017	1940	
10/4/2017	2370	
1/11/2018	2350	
7/11/2018	2260	
1/16/2019		1540
3/26/2019		1220
10/9/2019		1100
4/8/2020		881

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intravel Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-2
8/31/2016	39	
10/26/2016	135	
1/5/2017	99	
4/4/2017	54	
7/13/2017	50	
10/3/2017	18 (J)	
1/10/2018	<25	
7/10/2018	49	
1/21/2019		39
7/30/2019		70
10/9/2019		46
4/8/2020		38

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-20	GWC-20
9/1/2016	470	
10/25/2016	289	
1/4/2017	639	
4/4/2017	660	
7/11/2017	836	
10/2/2017	698	
1/10/2018	322	
7/9/2018	461	
1/21/2019		307
3/25/2019		449
10/9/2019		434
4/8/2020		986

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's Intravel Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-21	GWC-21
9/1/2016	184	
10/25/2016	<25	
1/4/2017	242	
4/4/2017	187	
7/13/2017	86	
10/3/2017	66	
1/9/2018	167	
7/10/2018	180	
1/17/2019		178
3/26/2019		292
10/8/2019		278
4/7/2020		106

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-22	GWC-22
8/31/2016	1570	
10/26/2016	1840	
1/4/2017	1560	
4/6/2017	368	
7/11/2017	383	
10/4/2017	1500	
1/11/2018	438	
7/11/2018	876	
1/18/2019		154
3/27/2019		158
10/9/2019		211
4/7/2020		819

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-9	GWC-9
8/31/2016	173	
10/27/2016	221	
1/6/2017	259	
4/6/2017	169	
7/12/2017	163	
10/4/2017	168	
1/11/2018	190	
7/11/2018	165	
1/18/2019		118
3/27/2019		104
10/9/2019		128
4/8/2020		80

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-4R	GWB-4R
9/1/2016	1080	
10/26/2016	1050	
1/6/2017	1060	
4/4/2017	994	
7/12/2017	1070	
10/4/2017	1100	
1/11/2018	838	
7/11/2018	799	
1/16/2019		530
3/25/2019		479
10/9/2019		502
4/7/2020		482

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWB-5R
8/30/2016	224	
10/26/2016	297	
1/3/2017	366	
4/6/2017	279	
7/12/2017	308	
10/3/2017	288	
1/10/2018	493	
7/10/2018	1730 (o)	
1/16/2019		382
3/26/2019		1040
10/9/2019		2010
4/7/2020		483

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/23/2020 2:16 PM View: PL's IntraWell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-6R
8/30/2016	365	
10/26/2016	373	
1/5/2017	543	
4/6/2017	434	
7/12/2017	454	
10/3/2017	389	
1/9/2018	415	
7/10/2018	453	
1/16/2019		1320
3/26/2019		1250
10/9/2019		903
4/7/2020		775

FIGURE H.

Interwell Prediction Limits (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-11	35.8	n/a	4/7/2020	84.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	4/7/2020	52.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	4/7/2020	135	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	4/7/2020	129	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	4/7/2020	225	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	4/8/2020	53.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	4/8/2020	175	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	4/7/2020	65.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	4/7/2020	62.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	4/8/2020	277	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.4583	n/a	4/8/2020	0.55	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-12	6.43	4.24	4/7/2020	4.1	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	4/7/2020	6.83	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	4/7/2020	446	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	4/7/2020	297	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	4/7/2020	456	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	4/7/2020	844	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	4/8/2020	239	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	4/8/2020	428	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	4/7/2020	333	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	4/7/2020	221	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2

Interwell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-1	35.8	n/a	4/7/2020	31.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	4/7/2020	84.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	4/7/2020	52.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-13	35.8	n/a	4/8/2020	2.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	4/7/2020	135	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	4/7/2020	129	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	4/7/2020	225	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	4/8/2020	53.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	35.8	n/a	4/8/2020	0.24	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	4/8/2020	175	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	4/7/2020	12.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22	35.8	n/a	4/7/2020	65.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	4/8/2020	5.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	4/7/2020	62.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-5R	35.8	n/a	4/7/2020	34.1	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	4/7/2020	7.8	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	4/7/2020	7.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	4/7/2020	103	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	4/7/2020	32.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	4/8/2020	4.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	4/7/2020	41.6	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	4/7/2020	3.4	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	4/7/2020	49.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	4/8/2020	277	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	260	n/a	4/8/2020	5.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	4/8/2020	20.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	4/7/2020	4.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	4/7/2020	146	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	4/8/2020	16.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	4/7/2020	14.5	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	4/7/2020	44.3	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	4/7/2020	56.4	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-11	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-12	0.4583	n/a	4/7/2020	0.27	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-13	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-14	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-15	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-16	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-17	0.4583	n/a	4/8/2020	0.55	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-2	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-20	0.4583	n/a	4/8/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-21	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-22	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWC-9	0.4583	n/a	4/8/2020	0.058	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-4R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-5R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
Fluoride (mg/L)	GWB-6R	0.4583	n/a	4/7/2020	0.3ND	26	0.1532	0.1321	23.08	Kaplan-Meier	No	0.0004702	Param Inter 1 of 2
pH (SU)	GWC-1	6.43	4.24	4/7/2020	5.3	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.24	4/7/2020	5.05	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2

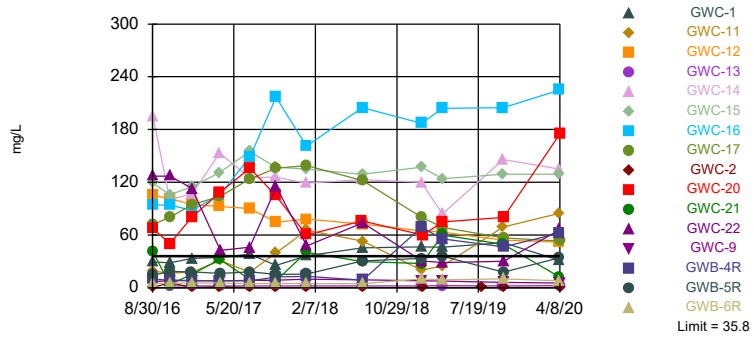
Interwell Prediction Limits (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-12	6.43	4.24	4/7/2020	4.1	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-13	6.43	4.24	4/8/2020	4.81	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.24	4/7/2020	6.2	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.24	4/7/2020	6.83	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-16	6.43	4.24	4/7/2020	5.94	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.24	4/8/2020	4.71	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.24	4/8/2020	4.66	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.24	4/8/2020	6.31	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.24	4/7/2020	6	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.24	4/7/2020	4.8	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.24	4/8/2020	4.73	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.24	4/7/2020	5.74	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.24	4/7/2020	5.45	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.24	4/7/2020	5.86	24	n/a	n/a	0	n/a	n/a	0.005292	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1	160	n/a	4/7/2020	83	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	4/7/2020	446	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	4/7/2020	297	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-13	160	n/a	4/8/2020	30.7	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	4/7/2020	456	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	4/7/2020	26.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	4/7/2020	844	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	4/8/2020	239	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	160	n/a	4/8/2020	12.9	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	4/8/2020	428	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	4/7/2020	33.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-22	160	n/a	4/7/2020	333	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	4/8/2020	34.2	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	4/7/2020	221	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	4/7/2020	180	24	n/a	n/a	0	n/a	n/a	0.002646	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-22, GWB-4R

Prediction Limit
Interwell Non-parametric

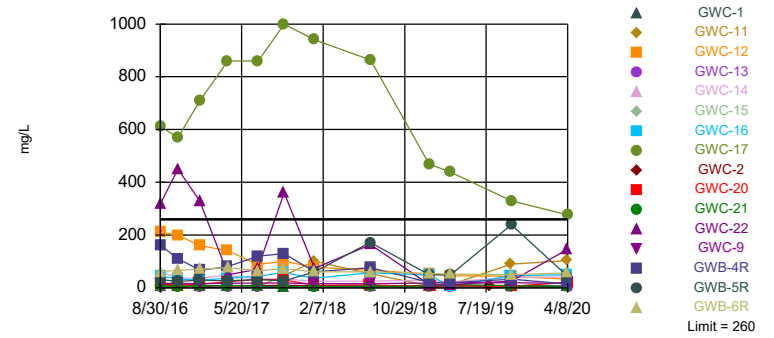


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. Annual per-constituent alpha = 0.08129. Individual comparison alpha = 0.002646 (1 of 2). Comparing 16 points to limit.

Constituent: Calcium Analysis Run 5/23/2020 1:59 PM View: PL's Interwell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit: GWC-17

Prediction Limit
Interwell Non-parametric



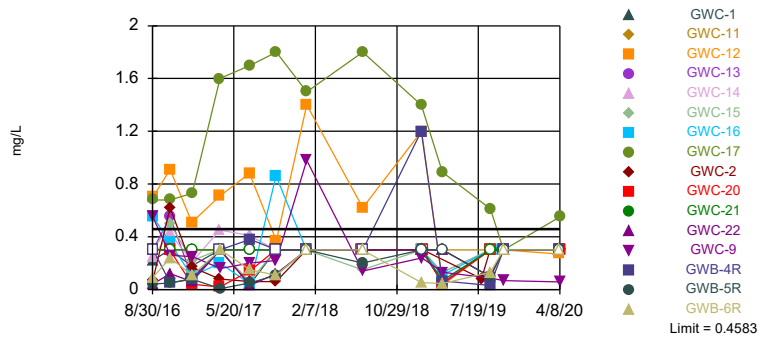
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. Annual per-constituent alpha = 0.08129. Individual comparison alpha = 0.002646 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 5/23/2020 1:59 PM View: PL's Interwell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Hollow symbols indicate censored values.

Exceeds Limit: GWC-17

Prediction Limit
Interwell Parametric

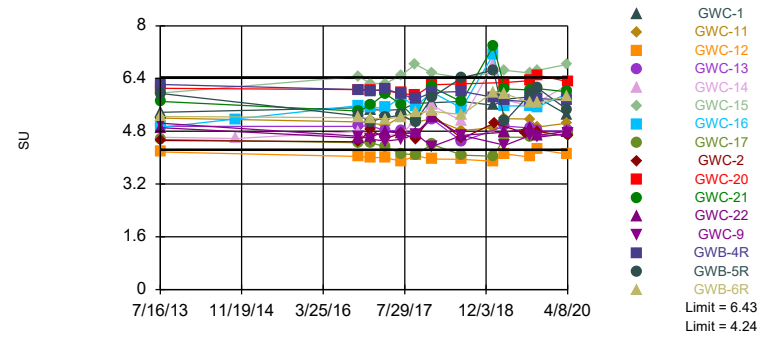


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1532, Std. Dev.=0.1321, n=26, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9249, critical = 0.891. Kappa = 2.309 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 5/23/2020 1:59 PM View: PL's Interwell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limits: GWC-12, GWC-15

Prediction Limit
Interwell Non-parametric

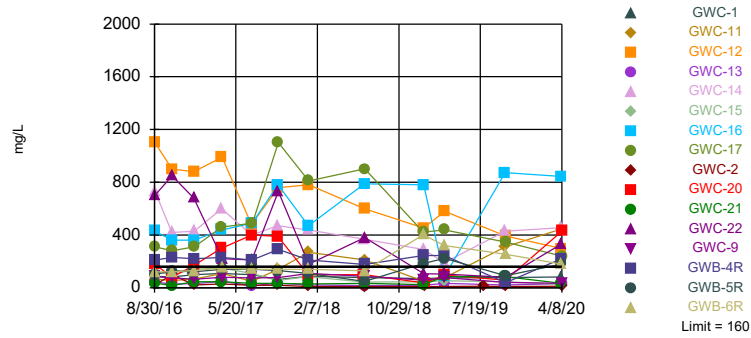


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 24 background values. Annual per-constituent alpha = 0.1626. Individual comparison alpha = 0.005292 (1 of 2). Comparing 16 points to limit.

Constituent: pH Analysis Run 5/23/2020 1:59 PM View: PL's Interwell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Exceeds Limit: GWC-11, GWC-12, GWC-14, GWC-16, GWC-17, GWC-20, GWC-22, GWC-4R, GWC-5R, GWC-6R

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 24 background values. Annual per-constituent alpha = 0.08129. Individual comparison alpha = 0.002646 (1 of 2). Comparing 16 points to limit.

Constituent: Sulfate Analysis Run 5/23/2020 1:59 PM View: PL's Interwell Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-1	GWC-9	GWC-22	GWC-2	GWC-12	GWC-11
8/30/2016	4.68	14.3	23.8	29.4					
8/31/2016					6.9	127	0.371 (J)	105	18.8
9/1/2016									
10/24/2016			22.5						
10/25/2016				28.3					
10/26/2016	5.45	18.6				127	5.84	101	16.6
10/27/2016					8.2				
1/3/2017		18.1	22.1						
1/4/2017				33.4		113		94.9	17.6
1/5/2017	5.35						0.379 (J)		
1/6/2017					7.97				
4/3/2017			24.6 (J)						
4/4/2017				34.6			0.993		
4/5/2017								92.5	
4/6/2017	5.41	16.2			7.95	42.7			30.9
7/10/2017								90.3	
7/11/2017			23.5			46			17.7
7/12/2017	4.81	18.1		38	8.37				
7/13/2017							0.388 (J)		
10/2/2017			22.7						
10/3/2017	5.17	15.2		25.5			0.251 (J)		39.8
10/4/2017					8.57	115		74.6	
1/9/2018	4.73		23.2						
1/10/2018		15.5		36.5			0.177 (J)		
1/11/2018					9.78	47.6		78.1	65.6
7/9/2018			24.6 (J)						
7/10/2018	4.5	30.6		45.5			0.17 (J)		
7/11/2018					9.2	73.7		72.2	53
1/16/2019	10.1	33.3	27.7	46.5					
1/17/2019								64.7	19.8 (J)
1/18/2019					8.1	30.6			
1/21/2019							0.19 (J)		
3/25/2019			31.7						
3/26/2019	9	36.1		46.3					
3/27/2019					7.7	28.8		63.1	25.1
7/30/2019							0.43		
10/7/2019			31.6						
10/8/2019									69.2
10/9/2019	10.1	17.7		51.2	6	30.1	0.18	54.2	
4/6/2020			35.8						
4/7/2020	7.8	34.1		31.1		65.7		52.1	84.7
4/8/2020					5.3		0.24 (J)		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWA-7 (bg)	GWB-4R	GWC-21	GWC-20	GWC-16	GWC-15	GWC-14	GWC-17	GWC-13
8/30/2016									
8/31/2016									2.77 (o)
9/1/2016	5.59	9.91	40.5	67.2	93.8	119	194	71.9	
10/24/2016									
10/25/2016	6.43		3.91	50.1	94.1	106	100		
10/26/2016		8.56						80.3	2.25
10/27/2016									
1/3/2017									
1/4/2017			15.2	80.4	88.2				
1/5/2017						115	107	94.4	2.27
1/6/2017	8.13	8.18							
4/3/2017						131			
4/4/2017		8.12	32.3	108			153		
4/5/2017					106			104	
4/6/2017	7.72								2.04
7/10/2017									
7/11/2017				136		155	125		
7/12/2017		8			149				2.25
7/13/2017	4.57		8.92					124	
10/2/2017				105		137	126		
10/3/2017			7.88		217				
10/4/2017	6.41	12.5						136	2.19
1/9/2018	4.68		40.5			135	119		
1/10/2018				60.1	161				2.28
1/11/2018		12.9						139	
7/9/2018				75.9			123		
7/10/2018			29.8		205	129			
7/11/2018	3.9	8.6						122	2.3
1/16/2019	4.3	68.8					120	80.5	2.3
1/17/2019			27.6		187	137			
1/18/2019									
1/21/2019				60					
3/25/2019	3.9	55.6		74.8					
3/26/2019			60.1		204	124	84.2	68.8	2.4
3/27/2019									
7/30/2019									
10/7/2019									
10/8/2019	3.5		49.5		205	129	146		2.3
10/9/2019		46.7		80.1				56.6	
4/6/2020	3.1								
4/7/2020		62.1	12.5		225	129	135		
4/8/2020				175				53.1	2.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-22	GWC-13	GWC-2	GWC-12	GWC-9
8/30/2016	31	5.5	15	60					
8/31/2016					320	4.3	7.8	210	17
9/1/2016									
10/24/2016			13						
10/25/2016		5.1							
10/26/2016	24			67	450	4.9	12	200	
10/27/2016									17
1/3/2017	29		13						
1/4/2017		6.9			330			160	
1/5/2017				70		4.1	7.4		
1/6/2017									16
4/3/2017			14						
4/4/2017		6.5					8.7		
4/5/2017								140	
4/6/2017	27			76	50	3.7			17
7/10/2017								88	
7/11/2017			13		70				
7/12/2017	31	6.5		64		2.6			18
7/13/2017							8.3		
10/2/2017			15						
10/3/2017	27	4.5		73			9		
10/4/2017					360	3		100	18
1/9/2018			13	61					
1/10/2018	59	6.9				3.4	8.2		
1/11/2018					74			78	16
7/9/2018			15.4						
7/10/2018	172	6.2		60.2			7.3		
7/11/2018					164	3.2		66.9	16.2
1/16/2019	49.7	6.6	16	54.1		3.8			
1/17/2019								52	
1/18/2019					11				17.5
1/21/2019							6.9		
3/25/2019			17.7						
3/26/2019	47.9	7		51.8		3.2			
3/27/2019					11.5			45.6	18.9
7/30/2019							7.1		
10/7/2019			18						
10/8/2019						4			
10/9/2019	239	7.2		49.7	25.3		7	44.1	19
4/6/2020			13.5						
4/7/2020	44.3	7.7		56.4	146			32.5	
4/8/2020						4.5	5.2		16.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWA-7 (bg)	GWC-20	GWC-17	GWC-16	GWC-14	GWC-21	GWB-4R	GWC-15
8/30/2016									
8/31/2016	3.5								
9/1/2016		190	16	610	43	60	5.9	160	10
10/24/2016									
10/25/2016		175 (D)	8.1		34	36	4.4		6.5
10/26/2016	2.5			570				110	
10/27/2016									
1/3/2017									
1/4/2017	3.8		13		29		7.7		
1/5/2017				710		37			10
1/6/2017		180						67	
4/3/2017									7.3
4/4/2017			23			47	8	80	
4/5/2017				860	36				
4/6/2017	7.1	200							
7/10/2017									
7/11/2017	3.1		31			34			5.7
7/12/2017					44			120	
7/13/2017		200		860			5.4		
10/2/2017			30			34			4.4
10/3/2017	46				58		4.4		
10/4/2017		260		1000				130	
1/9/2018		210				24	4.4		5.7
1/10/2018			9.7		36				
1/11/2018	100			940				60	
7/9/2018			10.8			25.9			
7/10/2018					57		6.3		3.1
7/11/2018	53.7	177		864				75.9	
1/16/2019		165		469		29.2		20.2	
1/17/2019	6.6				48.9		5.4		3.2
1/18/2019									
1/21/2019			5.1						
3/25/2019		147	9.4					19.7	
3/26/2019				439	5.1	21.1	11.9		3
3/27/2019	11.9								
7/30/2019									
10/7/2019									
10/8/2019	89	125			46.4	40.2	7.8		2.9
10/9/2019			5.4	330				32.1	
4/6/2020		30.2							
4/7/2020	103				49.3	41.6	4.7	14.5	3.4
4/8/2020			20.2	277					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-9	GWC-22	GWC-11	GWC-12	GWC-2
8/30/2016	0.22 (J)	0.09 (J)	0.04 (J)	0.1 (J)					
8/31/2016					0.55	0.04 (J)	<0.3	0.7	0.07 (J)
9/1/2016									
10/24/2016				0.18 (J)					
10/25/2016	<0.3								
10/26/2016		0.24 (J)	0.05 (J)			0.12 (J)	<0.3	0.91	0.62
10/27/2016					0.26 (J)				
1/3/2017			0.08 (J)	0.18 (J)					
1/4/2017	0.18 (J)					0.06 (J)	<0.3	0.51	
1/5/2017		0.11 (J)							0.17 (J)
1/6/2017					0.25 (J)				
4/3/2017				0.12 (J)					
4/4/2017	<0.3								0.08 (J)
4/5/2017								0.71	
4/6/2017		0.3	0.006 (J)		0.16 (J)	<0.3	<0.3		
7/10/2017								0.88	
7/11/2017				0.39		0.03 (J)	<0.3		
7/12/2017	0.04 (J)	0.15 (J)	0.05 (J)		0.2 (J)				
7/13/2017									0.06 (J)
10/2/2017				0.12 (J)					
10/3/2017	<0.3	0.11 (J)	0.11 (J)				<0.3		0.06 (J)
10/4/2017					0.22 (J)	0.12 (J)		0.37	
1/9/2018		<0.3		0.21 (J)					
1/10/2018	<0.3		<0.3						<0.3
1/11/2018					0.98	<0.3	<0.3	1.4	
7/9/2018				0.04 (J)					
7/10/2018	<0.3	<0.3	0.2 (J)						<0.3
7/11/2018					0.14 (J)	<0.3	<0.3	0.62	
1/16/2019	<0.3	0.053 (J)	<0.3	<0.3					
1/17/2019							<0.3	1.2	
1/18/2019					0.24 (J)	<0.3			
1/21/2019									<0.3
3/25/2019				0.082 (J)					
3/26/2019	0.051 (J)	0.046 (J)	<0.3						
3/27/2019					0.13 (J)	<0.3	<0.3	0.036 (J)	
7/30/2019									0.083 (J)
8/26/2019				0.13					
8/27/2019	<0.3	0.13 (J)				0.1	<0.3	0.3	<0.3
8/28/2019			0.097 (J)		0.088 (J)				
10/7/2019				<0.3					
10/8/2019							<0.3		
10/9/2019	<0.3	<0.3	<0.3		0.068 (J)	<0.3		<0.3	<0.3
4/6/2020				0.089 (J)					
4/7/2020	<0.3	<0.3	<0.3			<0.3	<0.3	0.27 (J)	
4/8/2020					0.058 (J)				<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-13	GWB-4R	GWC-21	GWC-20	GWC-14	GWC-17	GWC-16	GWC-15	GWA-7 (bg)
8/30/2016									
8/31/2016	<0.3								
9/1/2016		<0.3	<0.3	<0.3	0.25 (J)	0.68	0.55	<0.3	<0.3
10/24/2016									
10/25/2016			<0.3	<0.3	0.43		0.36	0.5	0.07 (J)
10/26/2016	0.55	0.05 (J)				0.68			
10/27/2016									
1/3/2017									
1/4/2017			<0.3	0.04 (J)			0.1 (J)		
1/5/2017	0.09 (J)				0.21 (J)	0.73		0.22 (J)	
1/6/2017		0.08 (J)							0.2 (J)
4/3/2017								<0.3	
4/4/2017		<0.3	<0.3	0.02 (J)	0.45				
4/5/2017						1.6	0.2 (J)		
4/6/2017	<0.3								0.05 (J)
7/10/2017									
7/11/2017				0.14 (J)	0.41			0.06 (J)	
7/12/2017	<0.3	0.38					0.04 (J)		
7/13/2017			<0.3			1.7			0.41
10/2/2017				<0.3	<0.3			<0.3	
10/3/2017			<0.3				0.86		
10/4/2017	<0.3	<0.3				1.8			0.04 (J)
1/9/2018			<0.3		<0.3			<0.3	0.46
1/10/2018	<0.3			<0.3			<0.3		
1/11/2018		<0.3				1.5			
7/9/2018				<0.3	<0.3				
7/10/2018			<0.3				<0.3	0.15 (J)	
7/11/2018	<0.3	<0.3				1.8			<0.3
1/16/2019	<0.3	1.2			<0.3	1.4			0.49
1/17/2019			<0.3				<0.3	<0.3	
1/18/2019									
1/21/2019				<0.3					
3/25/2019		0.064 (J)		0.043 (J)					0.21 (J)
3/26/2019	0.052 (J)		0.071 (J)		0.13 (J)	0.89	0.11 (J)	0.13 (J)	
3/27/2019									
7/30/2019									
8/26/2019									<0.3
8/27/2019	<0.3	0.031 (J)			<0.3			<0.3	
8/28/2019			<0.3	<0.3		0.61	<0.3		
10/7/2019									
10/8/2019	<0.3		<0.3		<0.3		<0.3	<0.3	<0.3
10/9/2019		<0.3		<0.3		<0.3			
4/6/2020									0.13 (J)
4/7/2020		<0.3	<0.3		<0.3		<0.3	<0.3	
4/8/2020	<0.3			<0.3		0.55			

Prediction Limit

Constituent: pH (SU) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-15	GWC-9	GWC-22	GWC-11	GWB-4R	GWC-21	GWC-20	GWB-6R	GWC-12
7/16/2013	5.96	5.05	4.91	5.2	6.22	5.71	6.1	5.25	4.17
10/11/2014									
10/24/2016									
10/25/2016	6.46					5.41	6.06		
10/26/2016			4.6	5.08	6.06			5.21	4.04
10/27/2016		4.65							
1/3/2017									
1/4/2017			4.63	5.06		5.6	6.05		4.01
1/5/2017	6.25							5.2	
1/6/2017		4.56			6.02				
4/3/2017	6.25								
4/4/2017					6.08	5.94	6.03		
4/5/2017									4
4/6/2017		4.5	4.79	4.97				5.17	
7/10/2017									3.89
7/11/2017	6.5		4.73	5.26			5.96		
7/12/2017		4.56			5.93			5.24	
7/13/2017						5.6			
10/2/2017	6.83						5.88		
10/3/2017				5.07		5.18		5.36	
10/4/2017		4.72	4.74		5.77				4.06
1/9/2018	6.57					6.14		5.4	
1/10/2018							6.21		
1/11/2018		4.34	5.22	5.18	5.98				3.96
7/9/2018							6.24		
7/10/2018	6.42					5.7		5.31	
7/11/2018		4.68	4.68	4.82	6.01				3.95
1/16/2019					5.83			5.99	
1/17/2019	8.44 (o)			4.91		7.39			3.89
1/18/2019		6.87 (o)	6.98 (o)						
1/21/2019							7.73 (o)		
3/25/2019					5.74		6.28		
3/26/2019	6.65					6.08		5.94	
3/27/2019		4.38	4.77	5.18					4.11
7/30/2019									
8/26/2019									
8/27/2019	6.57		4.89	5.17	5.7			5.67	4.02
8/28/2019		4.68				6.05	6.34		
10/7/2019									
10/8/2019	6.65			4.93		6.09			
10/9/2019		4.62	4.68		5.79		6.5	5.66	4.25
4/6/2020									
4/7/2020	6.83		4.8	5.05	5.74	6		5.86	4.1
4/8/2020		4.73					6.31		

Prediction Limit

Constituent: pH (SU) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-2	GWC-1	GWC-17	GWB-5R	GWC-16	GWC-14	GWC-13	GWA-8 (bg)	GWA-7 (bg)
7/16/2013	4.52	5.38	4.55	5.95	4.92	4.62	4.95		
10/11/2014					5.17	4.58		4.42	
10/24/2016								4.36	
10/25/2016		5.51			5.58	4.79			6.17
10/26/2016	4.48		4.45	5.27			4.95		
10/27/2016									
1/3/2017				5.09				4.28	
1/4/2017		5.46			5.51				
1/5/2017	4.85		4.45			4.73	4.97		
1/6/2017									6.16
4/3/2017								4.29	
4/4/2017	4.58	5.43				4.68			
4/5/2017			4.33		5.51		4.81		
4/6/2017				5.22					6.26
7/10/2017									
7/11/2017						4.72		4.35	
7/12/2017		5.46		5.29	5.84		4.83		
7/13/2017	4.74		4.11						5.99
10/2/2017						5.13		4.32	
10/3/2017	4.57	5.65		5.08	5.55				
10/4/2017			4.09				4.71		6.16
1/9/2018						5.59		4.44	6.43
1/10/2018	5.31	5.67		5.83	5.99		5.17		
1/11/2018			4.4						
7/9/2018						5.11		4.4	
7/10/2018	4.58	5.71		6.42	5.5				
7/11/2018			4.07				4.49		6.1
1/16/2019		5.59	4.05	6.66		6.82	6.45 (o)	6.16 (o)	6.05
1/17/2019					7.13				
1/18/2019									
1/21/2019	5.05								
3/25/2019								4.4	6.06
3/26/2019		5.77	4.62	5.1	5.57	5.74	4.96		
3/27/2019									
7/30/2019	4.74								
8/26/2019								4.26	5.91
8/27/2019	4.77	5.84				5.58	4.9		
8/28/2019			4.62	5.95	5.57				
10/7/2019								4.24	
10/8/2019					5.54	5.68	4.81		5.74
10/9/2019	4.79	5.82	4.66	6.11					
4/6/2020								4.52	6.02
4/7/2020		5.3		5.45	5.94	6.2			
4/8/2020	4.66		4.71				4.81		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-22	GWC-13	GWC-2	GWC-12	GWC-9
8/30/2016	100	87	140	120					
8/31/2016					700	43	21	1100	84
9/1/2016									
10/24/2016			160						
10/25/2016		83							
10/26/2016	130			120	850	29	100	900	
10/27/2016									76
1/3/2017	120		140						
1/4/2017		99			680			880	
1/5/2017				130		32	22		
1/6/2017									66
4/3/2017			140						
4/4/2017		110					29		
4/5/2017								990	
4/6/2017	140			150	220	49			79
7/10/2017								480	
7/11/2017			130		210				
7/12/2017	140	100		140		16			75
7/13/2017							20		
10/2/2017			150						
10/3/2017	130	63		140			20		
10/4/2017					730	33		760	78
1/9/2018			120	140					
1/10/2018	110	86				22	9.5		
1/11/2018					180			780	110
7/9/2018			123						
7/10/2018	48.1	77.7		128			8.5		
7/11/2018					381	17.8		598	87.4
1/16/2019	184	71.2	129	402		20.2			
1/17/2019								454	
1/18/2019					107				56.9
1/21/2019							10.2		
3/25/2019			152						
3/26/2019	222	73.8		319		33.6			
3/27/2019					103			579	76.2
7/30/2019							12.3		
10/7/2019			156						
10/8/2019						22			
10/9/2019	90.8	76.3		255	80.2		10.1	392	41.1
4/6/2020			123						
4/7/2020	180	83		180	333			297	
4/8/2020						30.7	12.9		34.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/23/2020 2:04 PM View: PL's Interwell Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

	GWC-11	GWA-7 (bg)	GWC-20	GWC-17	GWC-16	GWC-14	GWC-21	GWB-4R	GWC-15
8/30/2016									
8/31/2016	64								
9/1/2016		73	180	310	430	730	36	210	120
10/24/2016									
10/25/2016		26	79		360	420	16		100
10/26/2016	56			280				230	
10/27/2016									
1/3/2017									
1/4/2017	65		170		360		45		
1/5/2017				310		430			140
1/6/2017		23						220	
4/3/2017									150
4/4/2017			300			600	46	230	
4/5/2017				460	440				
4/6/2017	110	25							
7/10/2017									
7/11/2017	49		400			400			110
7/12/2017					490			210	
7/13/2017		65		490			33		
10/2/2017			390			470			56
10/3/2017	140				780		34		
10/4/2017		13		1100				290	
1/9/2018		45				440	29		84
1/10/2018			99		470				
1/11/2018	270			810				210	
7/9/2018			99.2			369			
7/10/2018					787		33.2		43
7/11/2018	211	37.7		902				177	
1/16/2019		24.5		422		291		244	
1/17/2019	50.3				780		24.1		45.2
1/18/2019									
1/21/2019			35.5						
3/25/2019		14.7	95.6					245	
3/26/2019				439	87.9	192	83.9		54
3/27/2019	76.8								
7/30/2019									
10/7/2019									
10/8/2019	310	32.8			872	428	85.6		45.8
10/9/2019			58.5	346				38.5	
4/6/2020		20.3							
4/7/2020	446				844	456	33.2	221	26.9
4/8/2020			428	239					

FIGURE I.

Trend Test Summary (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:25 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>
Boron (mg/L)	GWA-7 (bg)	-4.496	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-16	2.531	56	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7 (bg)	-0.9737	-47	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	2.805	41	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	17.85	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-15.09	-64	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	39.32	47	38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.1181	40	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-185.6	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-571.2	-59	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-16	251.9	51	38	Yes	12	0	n/a	n/a	0.01	NP

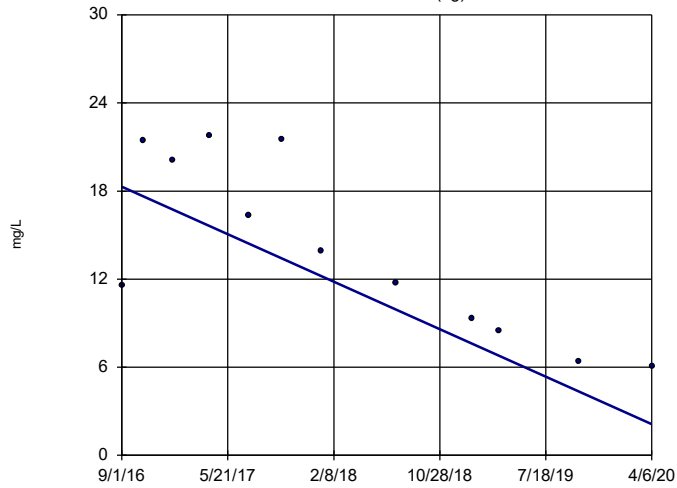
Trend Test Summary (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/23/2020, 2:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-7 (bg)	-4.496	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-8 (bg)	0.001627	4	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-11	0.05085	34	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-16	2.531	56	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWB-6R	1.171	32	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7 (bg)	-0.9737	-47	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-8 (bg)	2.805	41	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-11	17.85	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-12	-15.09	-64	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-14	-2.399	-2	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-15	3.001	10	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16	39.32	47	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17	-6.933	-12	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-20	6.478	10	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-22	-17.39	-33	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWB-4R	12.38	32	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7 (bg)	-23.13	-29	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-8 (bg)	1.079	29	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-112.5	-19	-38	No	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	0.01096	8	43	No	13	30.77	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	0	-1	-43	No	13	15.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.09821	-16	-43	No	13	7.692	n/a	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.07309	-35	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	GWA-8 (bg)	-0.002245	-1	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	GWC-12	0.006067	3	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	GWC-15	0.1181	40	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7 (bg)	-4.959	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-8 (bg)	-2.933	-10	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-11	79.87	32	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-12	-185.6	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-14	-63.51	-22	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-16	137.3	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-17	12.32	3	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	-21.31	-8	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-22	-117.1	-38	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-4R	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-5R	14.55	12	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWB-6R	20.38	34	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-7 (bg)	-571.2	-59	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-8 (bg)	-2.336	-2	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-11	157.7	29	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWC-16	251.9	51	38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWB-6R	114.6	34	38	No	12	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-7 (bg)

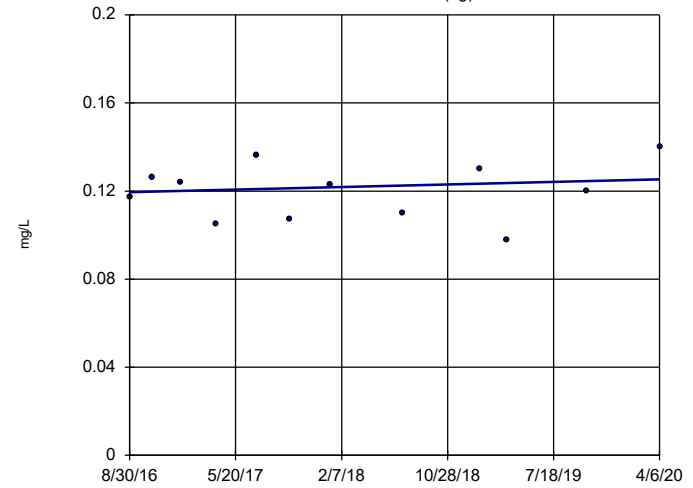


n = 12
 Slope = -4.496
 units per year.
 Mann-Kendall
 statistic = -42
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWA-8 (bg)

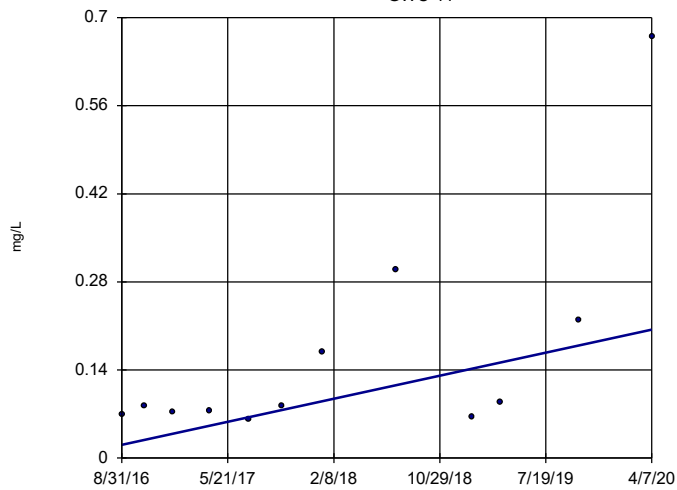


n = 12
 Slope = 0.001627
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWC-11

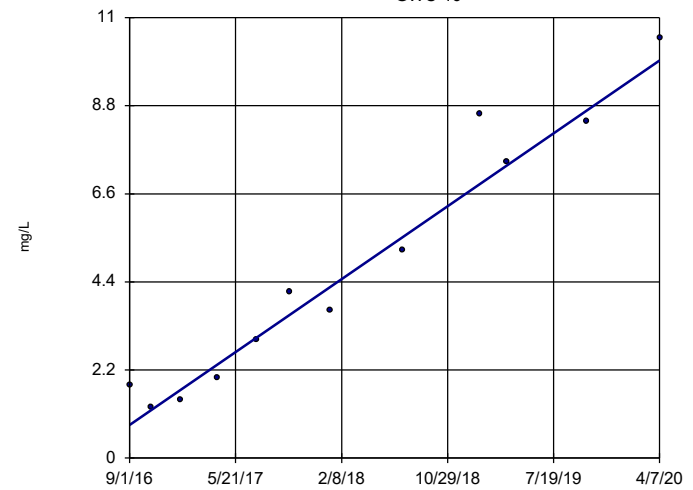


n = 12
 Slope = 0.05085
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

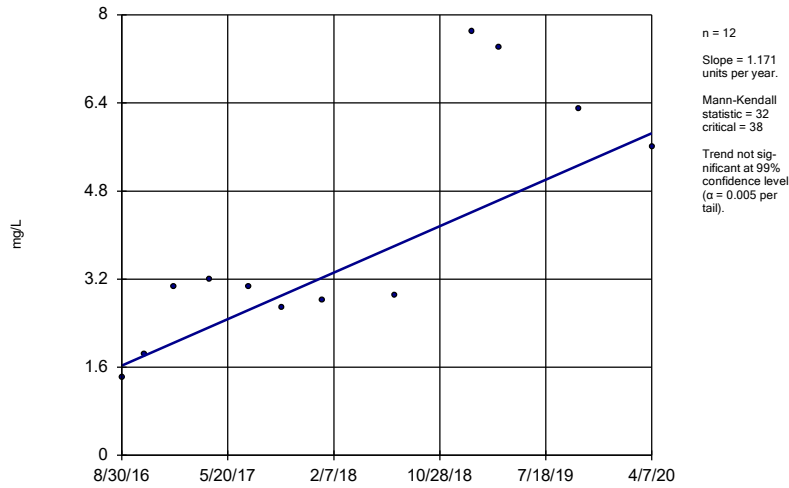
GWC-16



n = 12
 Slope = 2.531
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

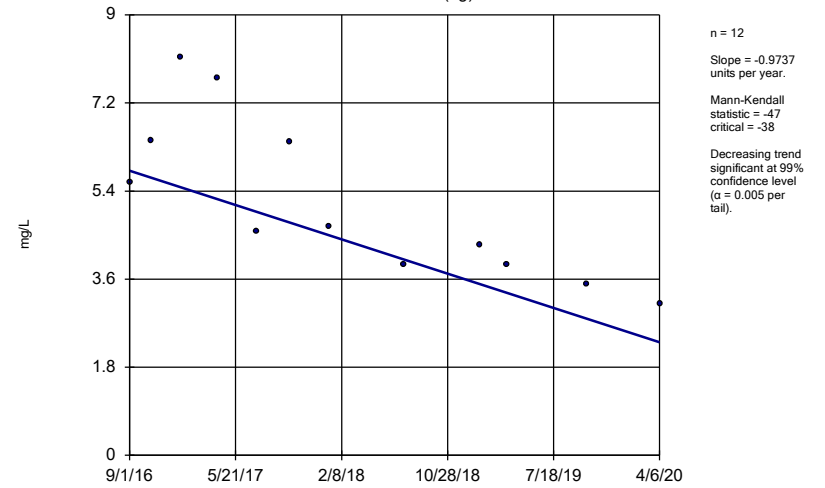
Constituent: Boron Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWB-6R



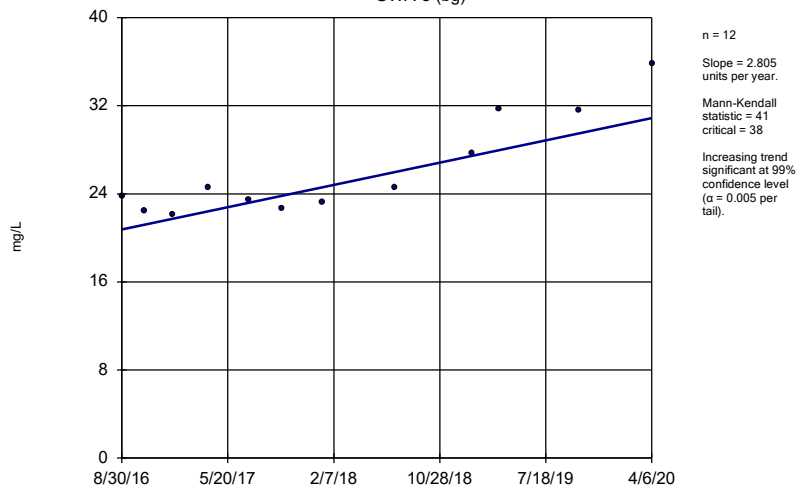
Constituent: Boron Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWA-7 (bg)



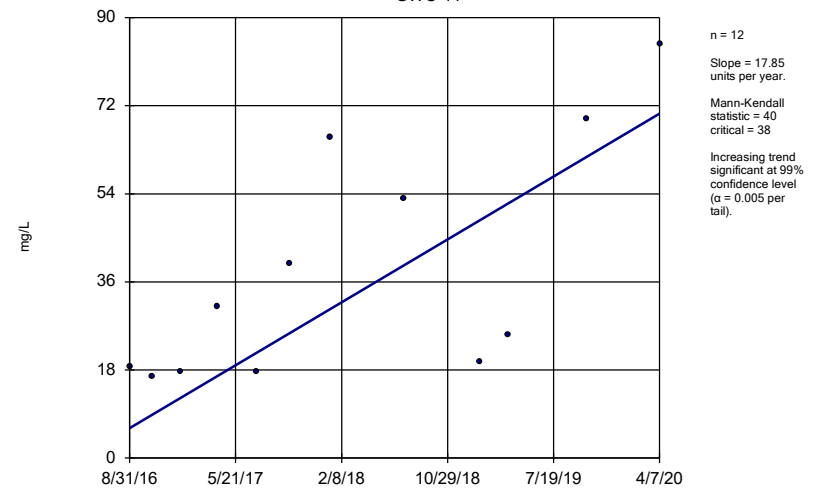
Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWA-8 (bg)



Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

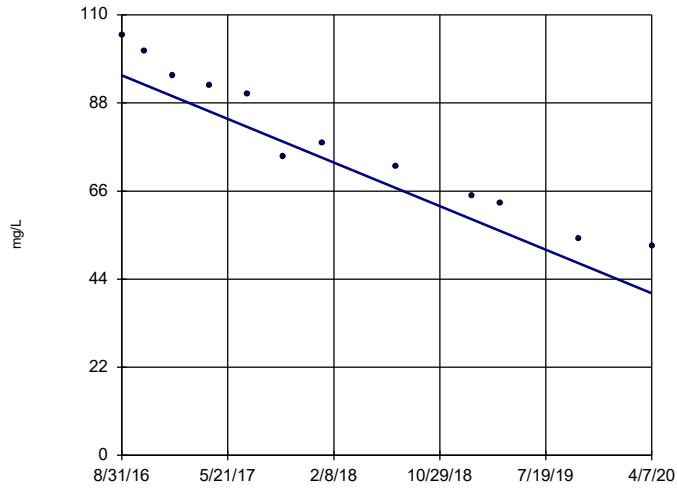
Sen's Slope Estimator GWC-11



Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWC-12

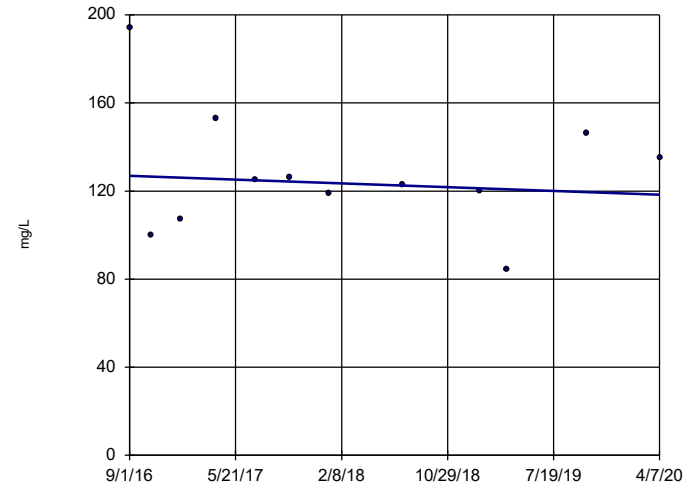


n = 12
 Slope = -15.09 units per year.
 Mann-Kendall statistic = -64
 critical = -38
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWC-14

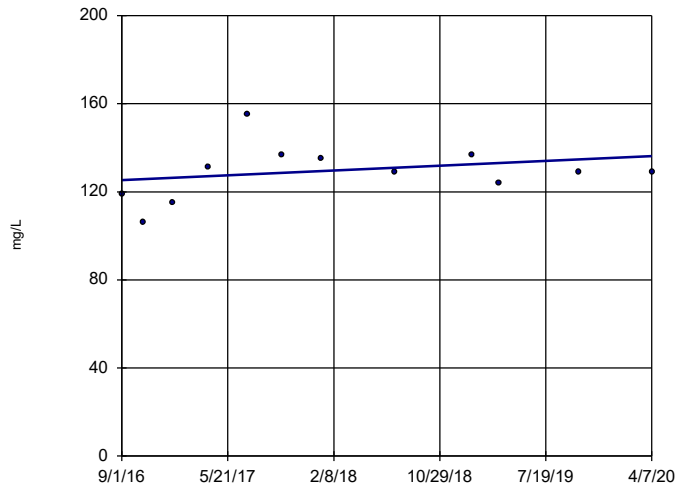


n = 12
 Slope = -2.399 units per year.
 Mann-Kendall statistic = -2
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWC-15

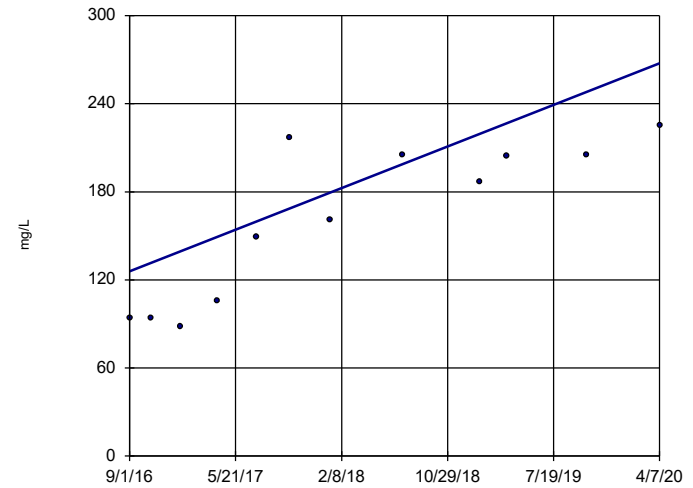


n = 12
 Slope = 3.001 units per year.
 Mann-Kendall statistic = 10
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

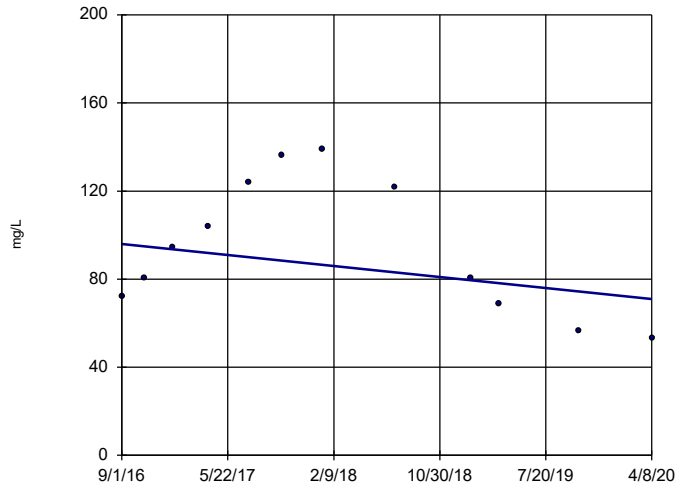
GWC-16



n = 12
 Slope = 39.32 units per year.
 Mann-Kendall statistic = 47
 critical = 38
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

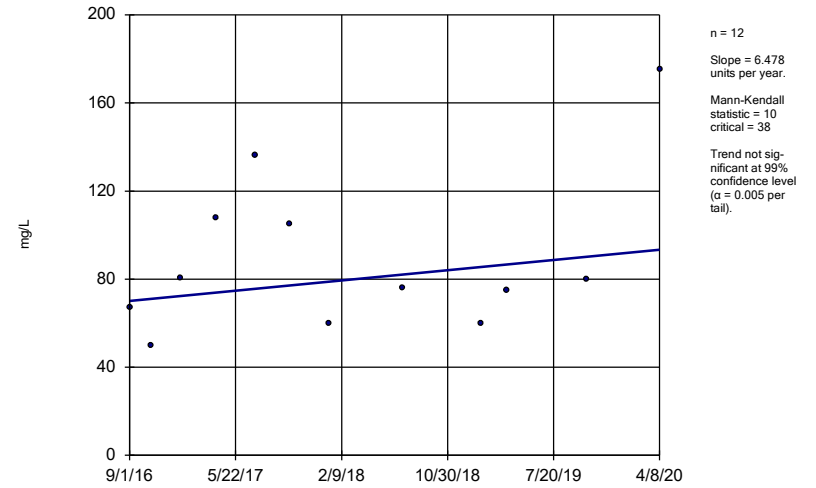
Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-17



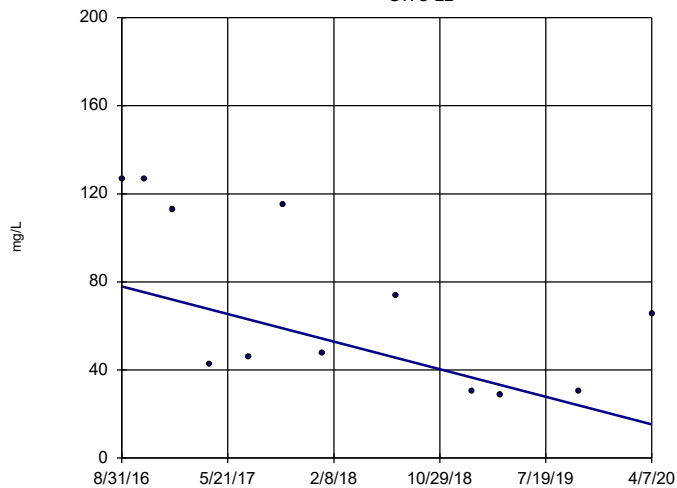
Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-20



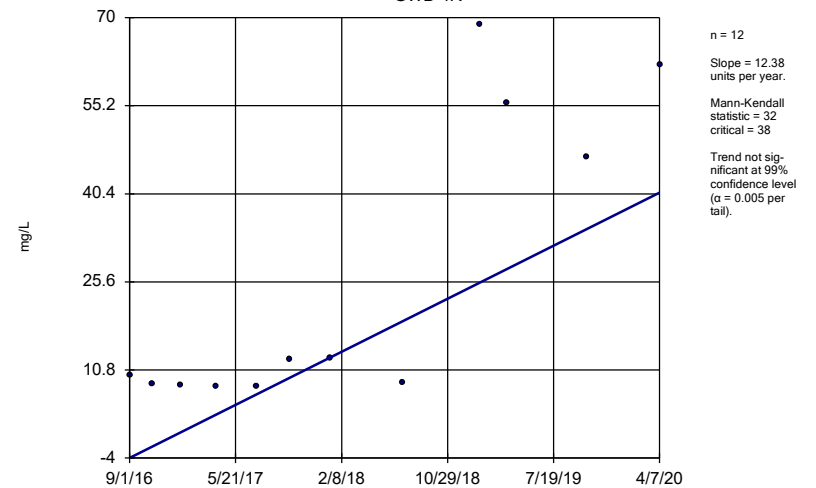
Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-22



Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

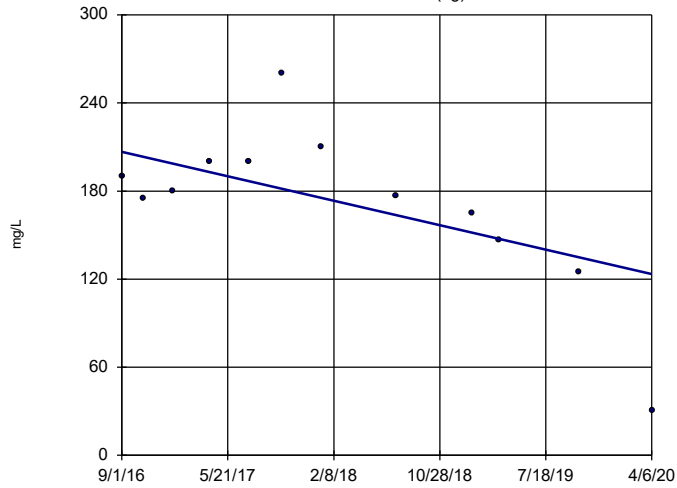
Sen's Slope Estimator GWB-4R



Constituent: Calcium Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWA-7 (bg)

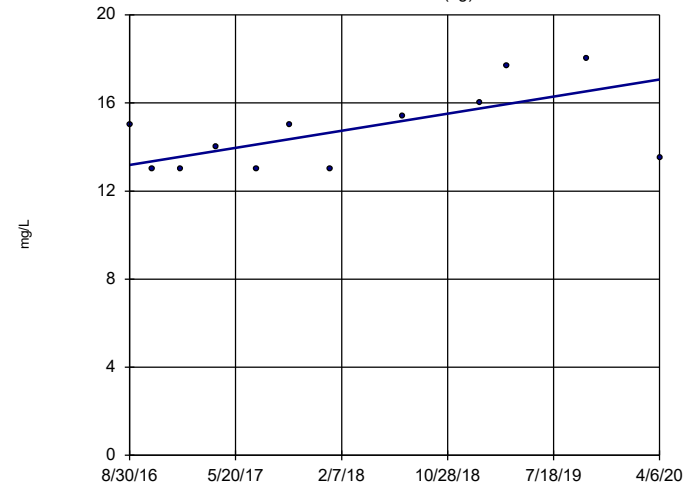


n = 12
 Slope = -23.13
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/23/2020 2:22 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWA-8 (bg)

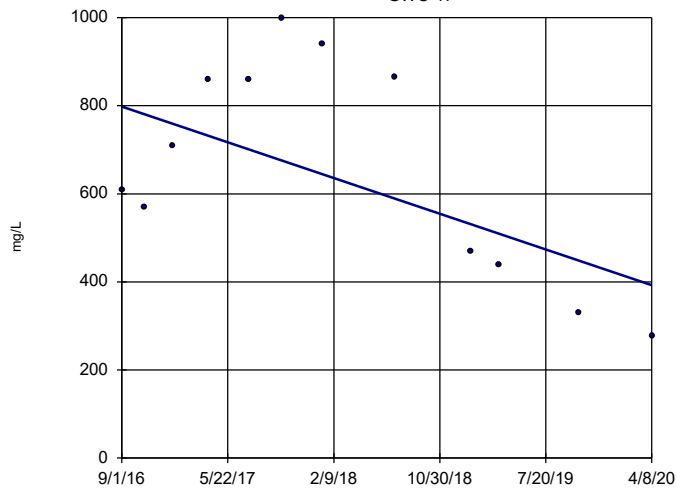


n = 12
 Slope = 1.079
 units per year.
 Mann-Kendall
 statistic = 29
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator

GWC-17



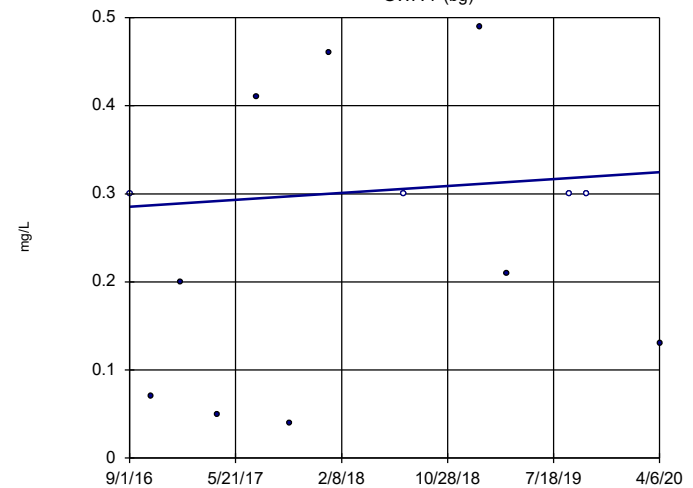
n = 12
 Slope = -112.5
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Hollow symbols indicate censored values.

Sen's Slope Estimator

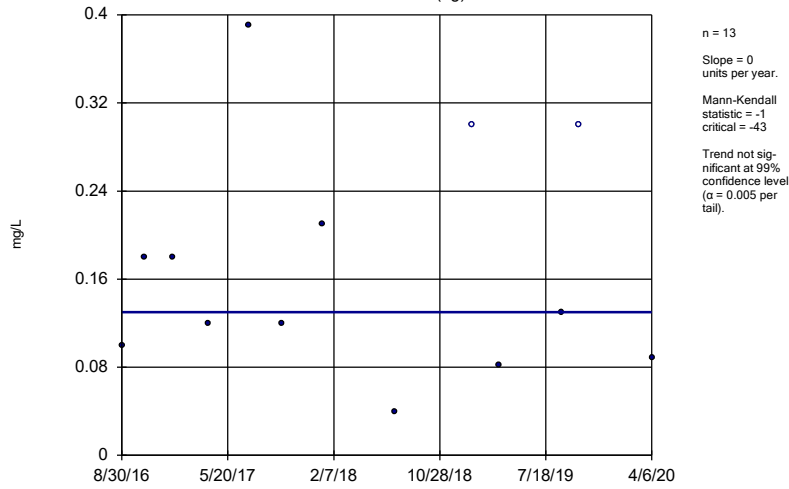
GWA-7 (bg)



n = 13
 Slope = 0.01096
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

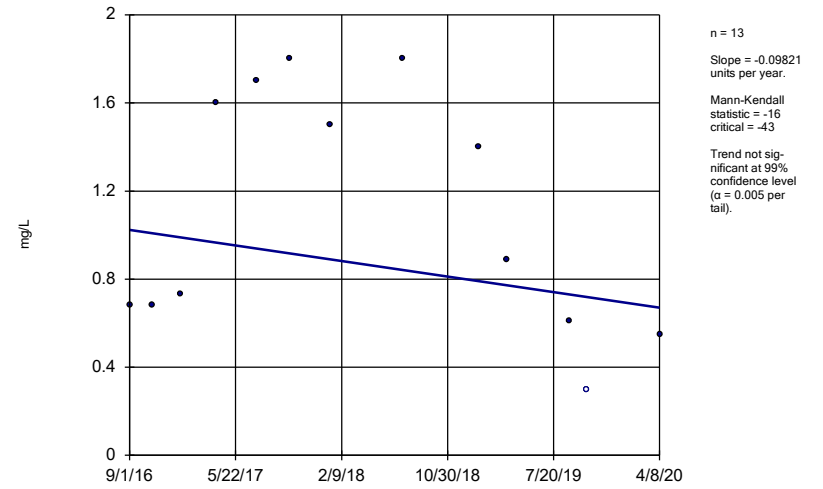
Constituent: Fluoride Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWA-8 (bg)



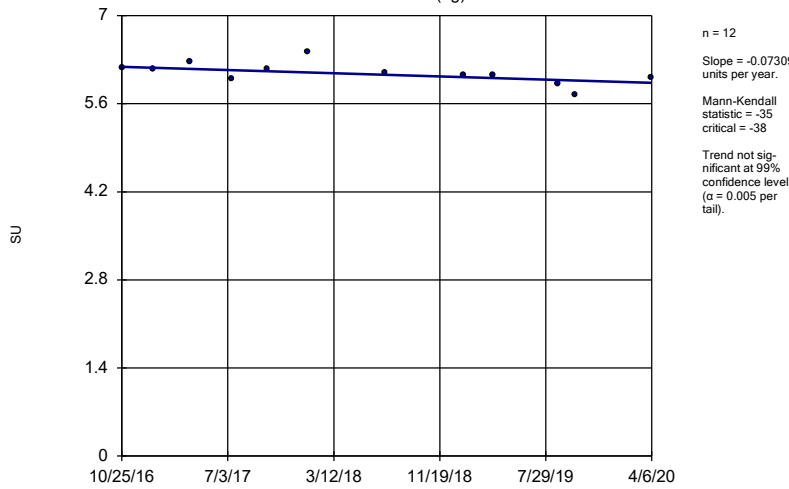
Constituent: Fluoride Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWC-17



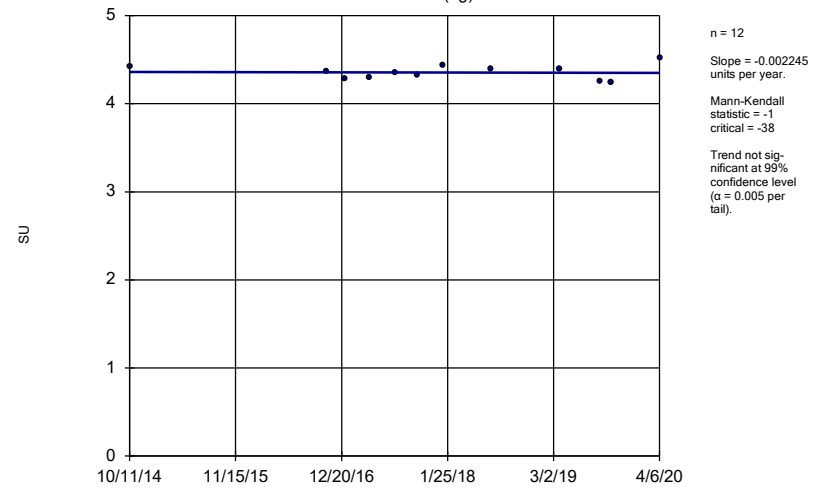
Constituent: Fluoride Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWA-7 (bg)



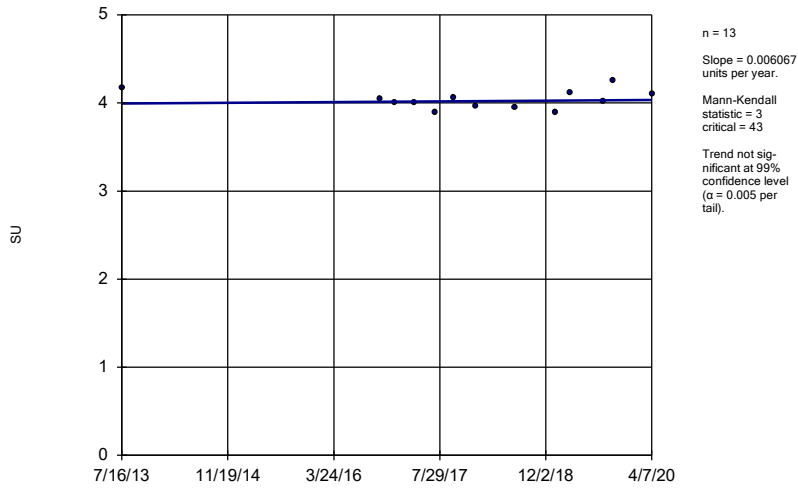
Constituent: pH Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
 GWA-8 (bg)



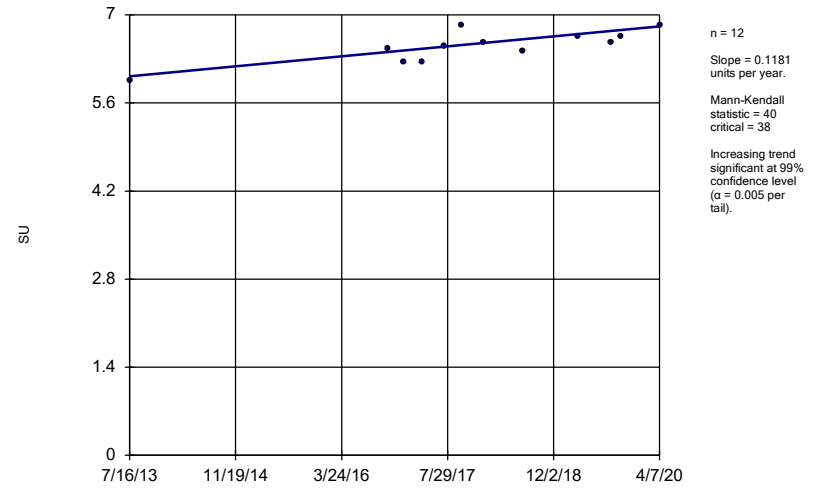
Constituent: pH Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-12



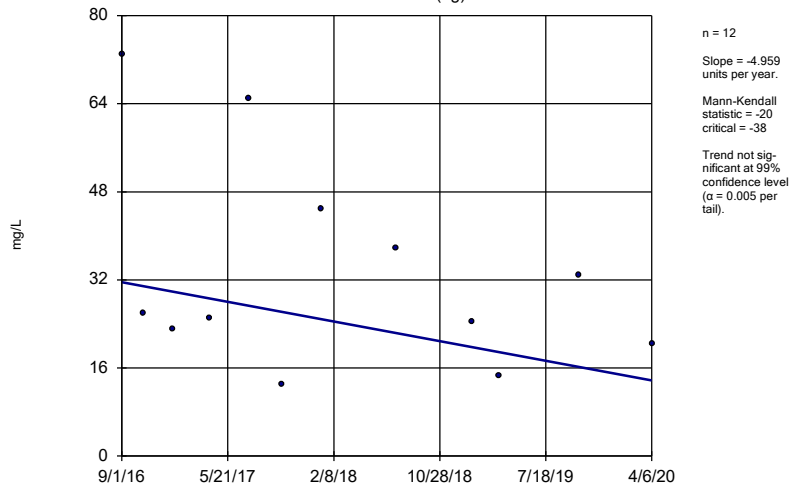
Constituent: pH Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-15



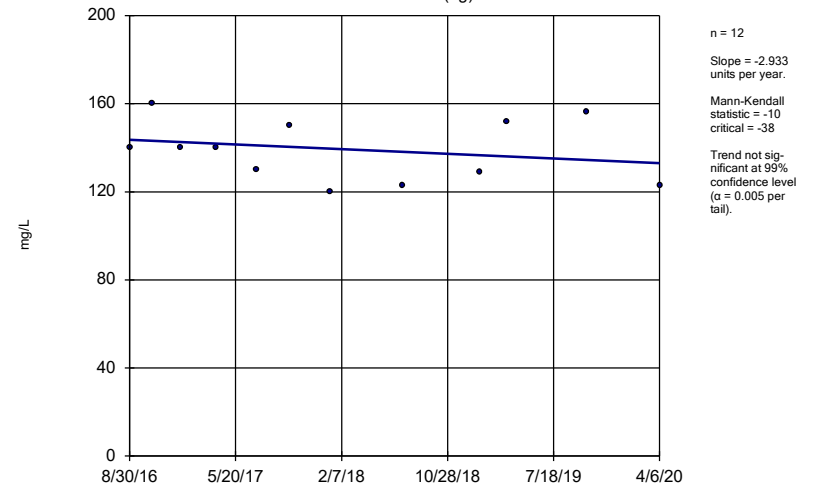
Constituent: pH Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWA-7 (bg)



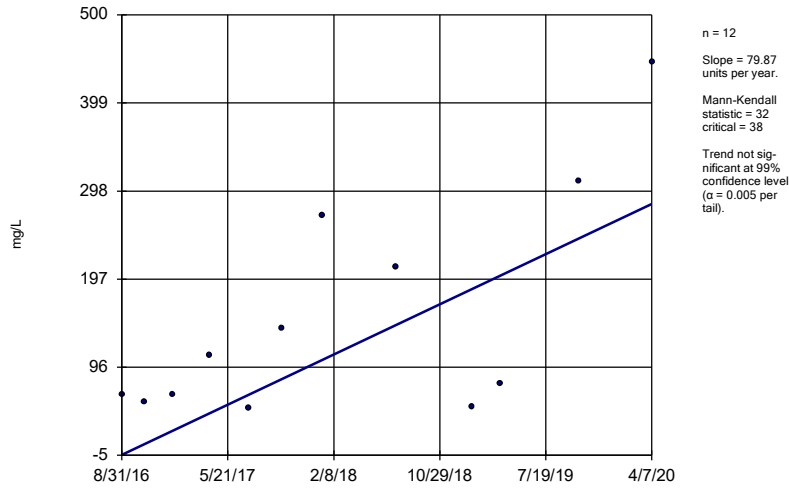
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWA-8 (bg)



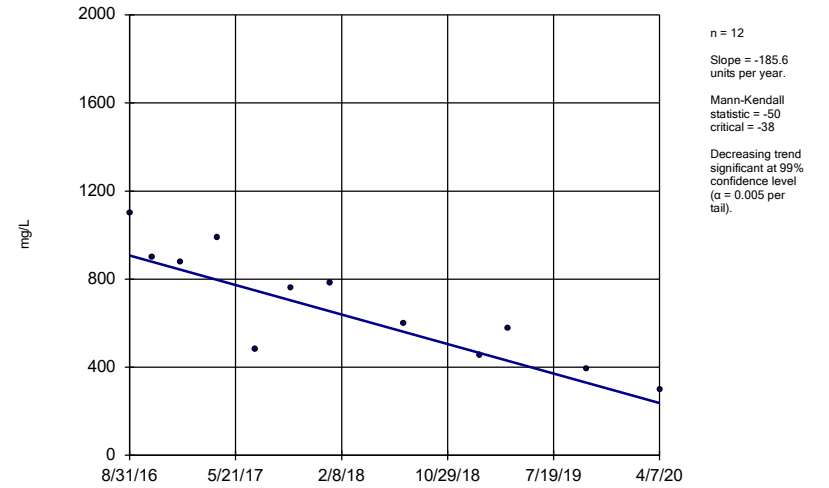
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-11



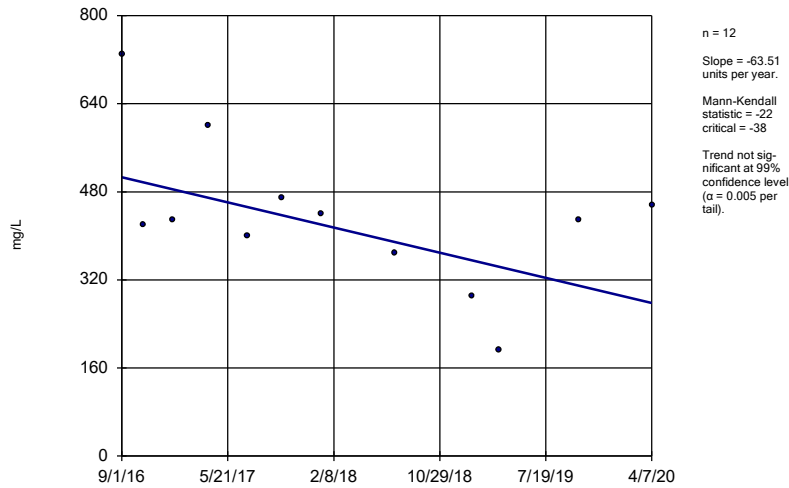
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-12



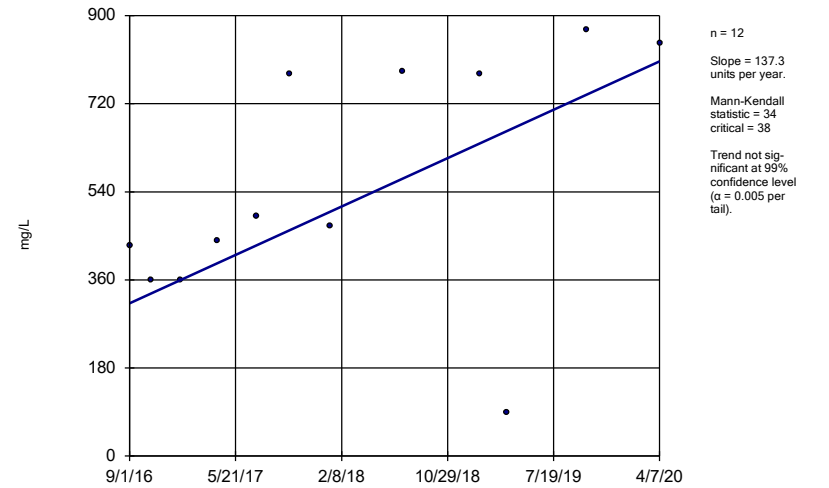
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-14



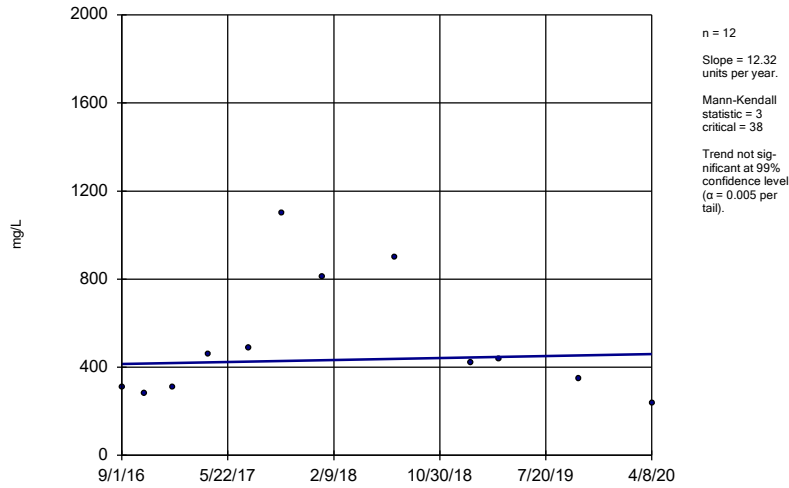
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-16



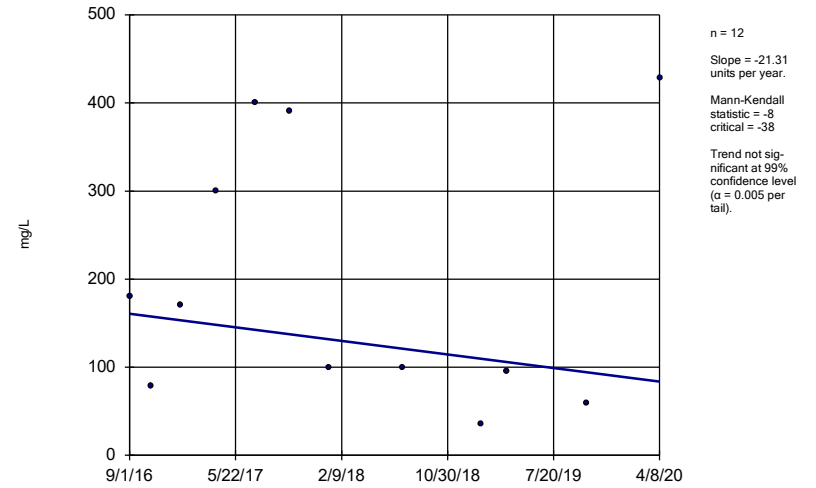
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWC-17



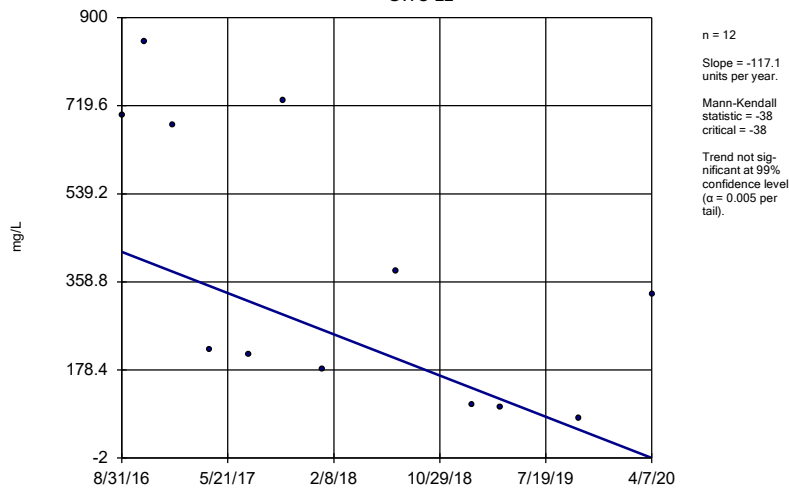
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWC-20



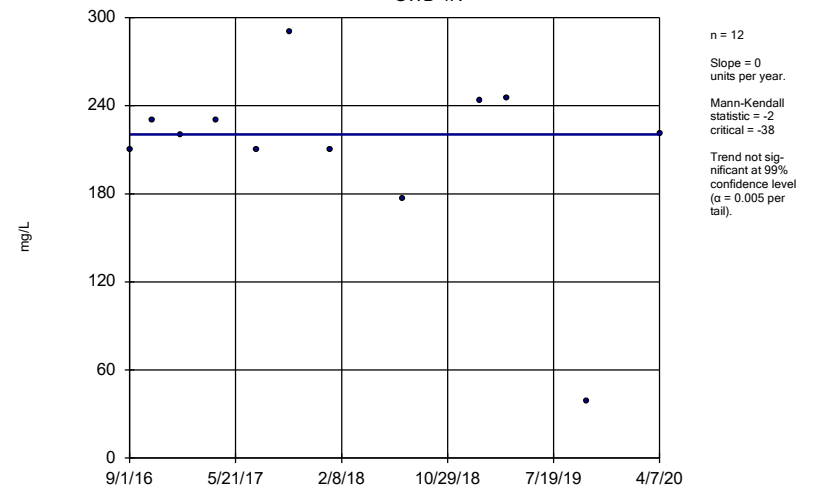
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWC-22



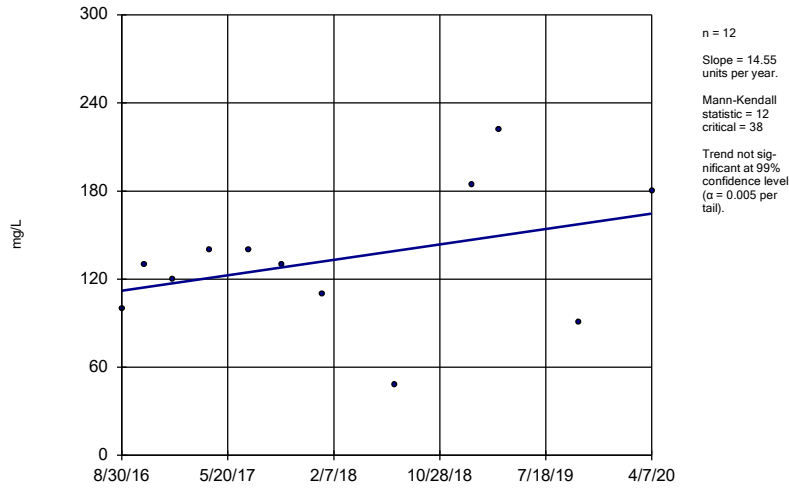
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWB-4R



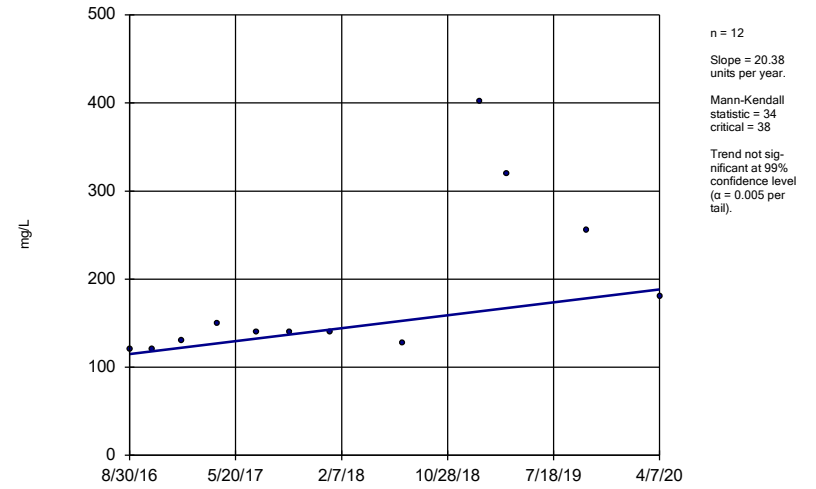
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWB-5R



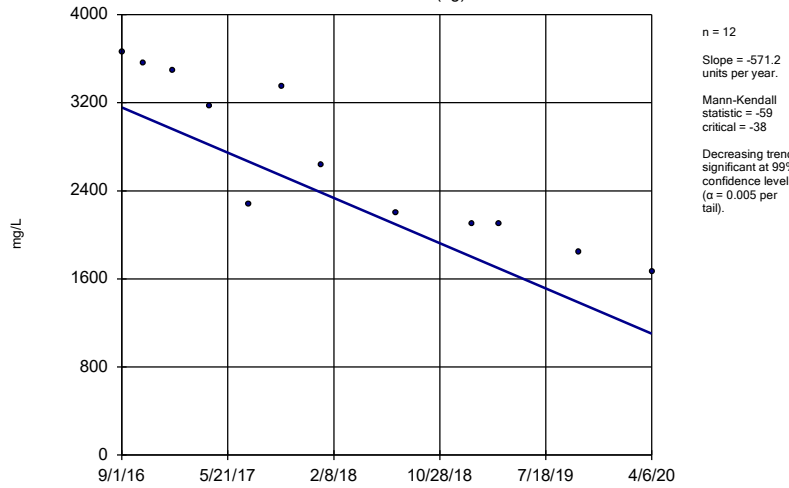
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWB-6R



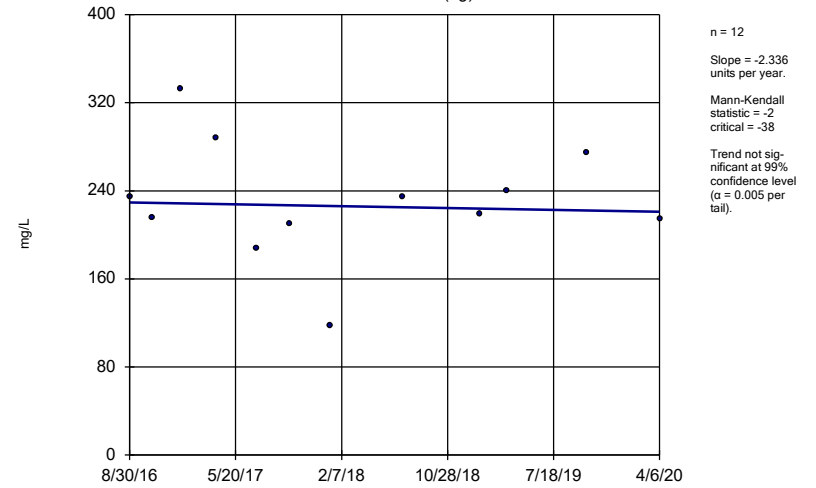
Constituent: Sulfate Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWA-7 (bg)



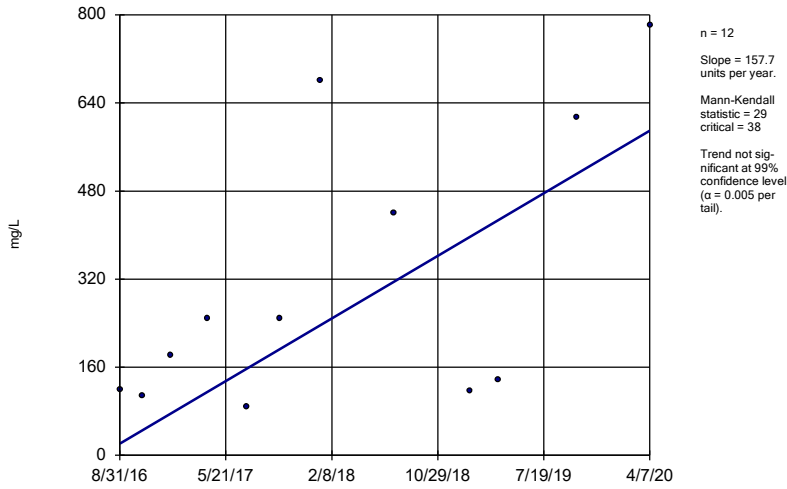
Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator
GWA-8 (bg)



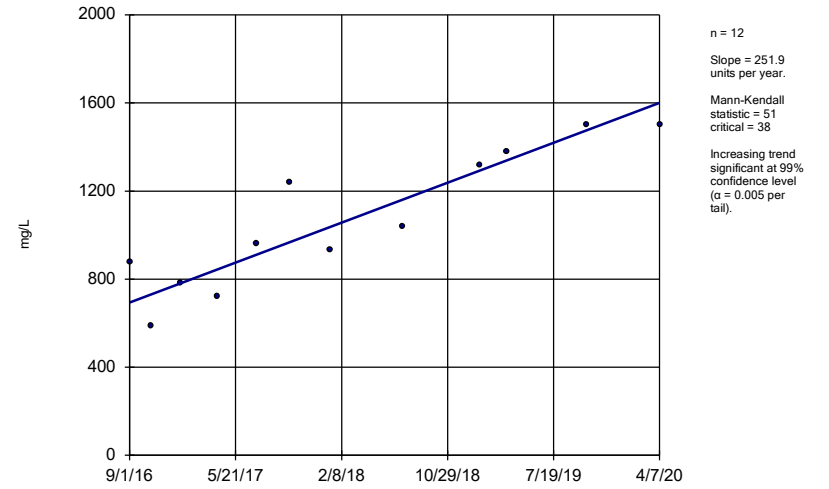
Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-11



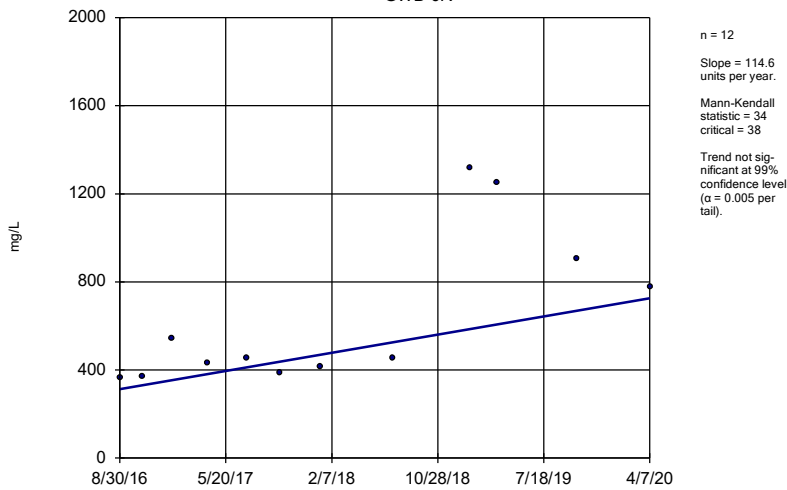
Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWC-16



Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Sen's Slope Estimator GWB-6R



Constituent: Total Dissolved Solids Analysis Run 5/23/2020 2:23 PM View: Trend Tests - PL Exceedances
Grumman Road Landfill Client: Southern Company Data: Grumman Road

FIGURE J.

Tolerance Limit Summary Table - Appendix IV

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 5/25/2020, 8:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	115	n/a	n/a	94.78	n/a	n/a	0.002743	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.014	n/a	111	n/a	n/a	78.38	n/a	n/a	0.003368	NP Inter(NDs)
Barium (mg/L)	n/a	0.22	n/a	111	n/a	n/a	0	n/a	n/a	0.003368	NP Inter(normality)
Beryllium (mg/L)	n/a	0.003	n/a	32	n/a	n/a	50	n/a	n/a	0.1937	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0025	n/a	31	n/a	n/a	93.55	n/a	n/a	0.2039	NP Inter(NDs)
Chromium (mg/L)	n/a	0.068	n/a	112	n/a	n/a	66.96	n/a	n/a	0.003199	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0102	n/a	34	n/a	n/a	50	n/a	n/a	0.1748	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	33.8	n/a	22	n/a	n/a	0	n/a	n/a	0.3235	NP Inter
Fluoride (mg/L)	n/a	0.6556	n/a	26	0.2365	0.1606	23.08	Cohen's	No	0.01	Inter
Lead (mg/L)	n/a	0.013	n/a	111	n/a	n/a	77.48	n/a	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.05	n/a	17	n/a	n/a	76.47	n/a	n/a	0.4181	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	20	n/a	n/a	85	n/a	n/a	0.3585	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	19	n/a	n/a	84.21	n/a	n/a	0.3774	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0438	n/a	110	n/a	n/a	82.73	n/a	n/a	0.003545	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	54	n/a	n/a	92.59	n/a	n/a	0.06267	NP Inter(NDs)

FIGURE K.

GRUMMAN ROAD LANDFILL GWPS (State)				
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		0.0287	0.0287
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)		0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		33.8	33.8
Fluoride, Total (mg/L)	4		0.6556	4
Lead, Total (mg/L)		0.015	0.013	0.013
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.01
Selenium, Total (mg/L)	0.05		0.0438	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE L.

GRUMMAN ROAD LANDFILL GWPS (Federal)				
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		0.0287	0.0287
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)		0.006	0.0102	0.0102
Combined Radium, Total (pCi/L)	5		33.8	33.8
Fluoride, Total (mg/L)	4		0.6556	4
Lead, Total (mg/L)		0.015	0.013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.0438	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE M.

Confidence Interval Summary Table (State) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes 15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes 16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes 15	0.3261	0.07248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.01	Yes 11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.01	Yes 11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.01	Yes 11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.01	Yes 11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.01	Yes 11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes 11	0.04843	0.04052	0	None	No	0.006	NP (normality)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7 (bg)	0.003	0.0013	0.006	No	15	0.002513	0.0008568	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWA-8 (bg)	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0005	0.006	No	15	0.001877	0.001249	53.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	14	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	15	0.002927	0.000284	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00049	0.006	No	15	0.002663	0.0008903	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	15	0.002729	0.0007552	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.00054	0.006	No	15	0.002836	0.0006352	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWA-7 (bg)	0.01379	0.004635	0.0287	No	12	0.009508	0.00692	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWA-8 (bg)	0.005	0.0006	0.0287	No	16	0.003391	0.00215	62.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-1	0.0042	0.0015	0.0287	No	14	0.004343	0.006598	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	15	0.005	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0009	0.0287	No	15	0.004153	0.001754	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	15	0.004412	0.001552	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.0026	0.0018	0.0287	No	16	0.002271	0.0008184	6.25	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes	15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes	16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0009	0.0287	No	15	0.002521	0.001835	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.0287	No	15	0.004129	0.001807	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes	15	0.3261	0.07248	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005955	0.00332	0.0287	No	15	0.004067	0.001312	40	Cohen's d	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	15	0.002705	0.002021	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.0287	No	15	0.004723	0.001074	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003147	0.001641	0.0287	No	15	0.002457	0.001208	13.33	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.005	0.0009	0.0287	No	15	0.002487	0.001924	26.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWB-6R	0.005	0.0011	0.0287	No	15	0.002829	0.001743	33.33	None	No	0.01	NP (Cohens/xfrm)
Barium (mg/L)	GWA-7 (bg)	0.1545	0.0802	2	No	14	0.1174	0.05248	0	None	No	0.01	Param.
Barium (mg/L)	GWA-8 (bg)	0.0664	0.06025	2	No	16	0.06333	0.00472	0	None	No	0.01	Param.
Barium (mg/L)	GWC-1	0.0575	0.04982	2	No	15	0.05366	0.005669	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1125	0.05506	2	No	15	0.08379	0.0424	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0191	0.0162	2	No	15	0.01847	0.003995	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02474	0.01968	2	No	15	0.02221	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0248	2	No	16	0.03726	0.01953	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.049	0.04021	2	No	15	0.04461	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1049	0.05422	2	No	14	0.08131	0.0372	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-17	0.1245	0.04703	2	No	15	0.09051	0.06112	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.057	0.049	2	No	14	0.05407	0.008399	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.148	0.078	2	No	15	0.1071	0.03885	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-21	0.07381	0.05031	2	No	15	0.06206	0.01734	0	None	No	0.01	Param.
Barium (mg/L)	GWC-22	0.09974	0.06378	2	No	15	0.08279	0.0285	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-9	0.2743	0.1982	2	No	15	0.2363	0.05612	0	None	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09633	0.07886	2	No	15	0.08759	0.01289	0	None	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1628	0.09057	2	No	15	0.1294	0.05934	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	15	0.07353	0.04511	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWA-7 (bg)	0.003	0.0002	0.004	No	8	0.001225	0.001208	25	None	No	0.004	NP (Cohens/xfrm)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWA-8 (bg)	0.00024	0.0002	0.004	No	11	0.0004564	0.0008438	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-12	0.000918	0.0005275	0.004	No	11	0.0007227	0.0002343	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	11	0.002733	0.000887	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	11	0.002205	0.001362	72.73	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	11	0.001147	0.001469	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-17	0.003159	0.001658	0.004	No	11	0.002427	0.0009318	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.00009	0.004	No	12	0.00229	0.001286	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	11	0.001433	0.001501	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	11	0.0002582	0.00004916	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	11	0.001445	0.001491	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-5R	0.003	0.0001	0.004	No	11	0.0007051	0.001137	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWA-7 (bg)	0.0025	0.0001	0.005	No	9	0.002033	0.0009381	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	GWA-8 (bg)	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	11	0.002061	0.0009769	81.82	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007221	0.0001598	0.005	No	11	0.0005255	0.0006754	9.091	None	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	11	0.001234	0.001213	45.45	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	12	0.0025	0	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	11	0.0008245	0.001083	27.27	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	11	0.001644	0.001189	63.64	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Chromium (mg/L)	GWA-7 (bg)	0.04592	0.02183	0.1	No	14	0.03387	0.017	0	None	No	0.01	Param.
Chromium (mg/L)	GWA-8 (bg)	0.01	0.0006	0.1	No	16	0.007657	0.004192	75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	15	0.002653	0.002337	6.667	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	15	0.005071	0.004747	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	15	0.003005	0.00365	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	15	0.005792	0.004666	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.00074	0.1	No	16	0.003754	0.004355	31.25	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	15	0.004787	0.004412	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	16	0.005468	0.004682	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	15	0.004343	0.004295	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.00065	0.1	No	15	0.005669	0.004794	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	15	0.005159	0.004688	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	15	0.005641	0.004824	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	15	0.005612	0.004856	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.001	0.1	No	15	0.004793	0.004418	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01066	0.004643	0.1	No	15	0.007653	0.004442	0	None	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	15	0.009707	0.01775	26.67	None	No	0.01	NP (Cohens/xfm)
Chromium (mg/L)	GWB-6R	0.011	0.0013	0.1	No	15	0.005607	0.005891	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWA-7 (bg)	0.00677	0.00267	0.0102	No	10	0.00472	0.002298	0	None	No	0.01	Param.
Cobalt (mg/L)	GWA-8 (bg)	0.005	0.0004	0.0102	No	11	0.002095	0.002304	36.36	None	No	0.006	NP (normality)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001461	0.0009338	0.0102	No	11	0.001197	0.0003162	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-17	0.006889	0.003475	0.0102	No	11	0.005182	0.002048	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	12	0.003115	0.002339	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	11	0.002676	0.00223	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	9	0.001453	0.0003465	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	11	0.001509	0.001244	9.091	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.00053	0.0102	No	11	0.003548	0.001882	54.55	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.005	0.0102	No	11	0.00458	0.001393	90.91	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWA-7 (bg)	16.91	4.867	33.8	No	11	11.4	9.532	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWA-8 (bg)	2.886	1.863	33.8	No	11	2.375	0.6138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.45	1.595	33.8	No	11	2.023	0.5129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.309	2.104	33.8	No	11	4.207	2.523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.199	1.981	33.8	No	11	2.59	0.7307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.373	0.6802	33.8	No	11	1.026	0.4155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.353	0.8114	33.8	No	11	1.082	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.815	0.9742	33.8	No	11	1.395	0.5045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.13	1.72	33.8	No	11	2.042	0.7575	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.417	2.7	33.8	No	11	3.558	1.03	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.008	0.5555	33.8	No	11	0.7818	0.2716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	3.207	1.453	33.8	No	11	2.33	1.053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.862	1.039	33.8	No	11	1.451	0.4937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.261	4.254	33.8	No	11	5.757	1.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.327	2.194	33.8	No	11	3.362	1.746	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.32	33.8	No	11	3.632	1.278	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.833	1.921	33.8	No	11	2.971	1.568	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.613	1.962	33.8	No	11	3.287	1.591	0	None	No	0.01	Param.
Fluoride (mg/L)	GWA-7 (bg)	0.3628	0.1388	4	No	13	0.2508	0.1506	30.77	None	No	0.01	Param.
Fluoride (mg/L)	GWA-8 (bg)	0.269	0.09469	4	No	13	0.1724	0.1027	15.38	Cohen's d	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	13	0.2455	0.09649	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	13	0.3	0	100	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9234	0.3391	4	No	13	0.6312	0.3929	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	13	0.284	0.1172	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.3707	0.2416	4	No	13	0.3062	0.08685	53.85	None	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	13	0.2662	0.1082	61.54	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	13	0.3092	0.2106	46.15	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.5	0.6906	4	No	13	1.095	0.5444	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.07	4	No	13	0.2264	0.1614	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	13	0.2264	0.118	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	13	0.2824	0.06351	92.31	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	13	0.1977	0.1179	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3664	0.1032	4	No	13	0.2572	0.2511	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	13	0.3004	0.2966	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	13	0.1641	0.1206	38.46	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	13	0.1868	0.1042	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	GWA-7 (bg)	0.009351	0.003464	0.013	No	13	0.006408	0.003959	0	None	No	0.01	Param.
Lead (mg/L)	GWA-8 (bg)	0.005	0.0001	0.013	No	16	0.003169	0.002442	62.5	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.005	0.00012	0.013	No	15	0.004348	0.001721	86.67	None	No	0.01	NP (NDs)

Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.00036	0.0001	0.013	No	14	0.00058	0.001274	7.143	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000081	0.013	No	15	0.001983	0.002358	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00017	0.013	No	15	0.002021	0.002208	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.005	0.00051	0.013	No	16	0.003799	0.00215	75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.013	No	15	0.002756	0.002484	53.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-16	0.005	0.0001	0.013	No	16	0.002271	0.002486	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.013	No	15	0.003422	0.002317	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.0002	0.013	No	15	0.00339	0.002358	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.0001	0.013	No	15	0.003374	0.00238	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.013	No	15	0.003046	0.002477	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001163	0.0003349	0.013	No	15	0.001011	0.001307	6.667	None	ln(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.0001	0.013	No	15	0.003091	0.002425	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.006465	0.00267	0.013	No	14	0.004567	0.002679	14.29	None	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0002	0.013	No	15	0.00242	0.002266	40	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.013	No	15	0.002544	0.002389	46.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWA-7 (bg)	0.03	0.03	0.03	No	6	0.03	0	100	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWA-8 (bg)	0.03	0.001	0.03	No	11	0.01948	0.0146	63.64	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.03	No	11	0.01683	0.01513	54.55	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-17	0.007283	0.005226	0.03	No	11	0.006255	0.001234	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.03	No	12	0.03	0	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-9	0.002162	0.001798	0.03	No	10	0.00198	0.0002044	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.03	No	11	0.0073	0.00417	0	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0027	0.03	No	11	0.01333	0.01325	36.36	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.03	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWA-7 (bg)	0.0005	0.0001	0.002	No	10	0.000381	0.000194	70	None	No	0.011	NP (normality)
Mercury (mg/L)	GWA-8 (bg)	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	0.000454	0.0001455	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	0.000463	0.000117	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	0.000455	0.0001423	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	0.0004549	0.0001426	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	0.0004543	0.0001445	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWA-7 (bg)	0.01	0.0013	0.01	No	8	0.0078	0.004012	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GWA-8 (bg)	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.01	Yes	11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.01	No	11	0.009255	0.002472	90.91	None	No	0.006	NP (NDs)

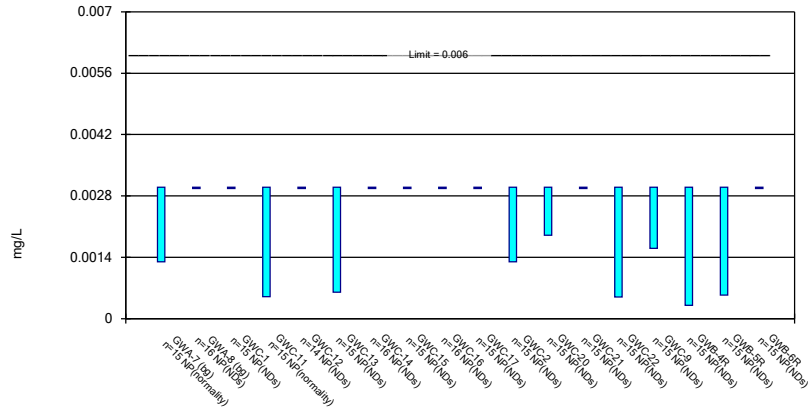
Confidence Interval Summary Table (State) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.01	No	11	0.0096	0.001327	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.028	0.0022	0.01	No	10	0.00946	0.01198	0	None	No	0.011	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.01	Yes	11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.01	Yes	11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.0036	0.01	No	11	0.008182	0.003136	72.73	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.01	No	12	0.01	0	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.01	Yes	11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.01	Yes	11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.01	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.01	Yes	11	0.04843	0.04052	0	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.01	0.01	No	11	0.0092	0.002653	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.01	0.01	No	11	0.009327	0.002231	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	GWA-7 (bg)	0.03164	0.01103	0.05	No	11	0.02134	0.01237	0	None	No	0.01	Param.
Selenium (mg/L)	GWA-8 (bg)	0.01	0.0013	0.05	No	16	0.008894	0.003023	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	15	0.004147	0.005656	6.667	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	15	0.009033	0.005691	26.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.0025	0.05	No	15	0.008427	0.003259	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.00512	0.002676	0.05	No	16	0.004017	0.002087	6.25	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	15	0.00846	0.00334	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.006459	0.003525	0.05	No	16	0.004992	0.002255	6.25	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	15	0.00616	0.00431	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	15	0.009033	0.002567	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	15	0.007127	0.004206	66.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.0234	0.01368	0.05	No	15	0.01854	0.007169	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0022	0.05	No	15	0.007793	0.003799	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	15	0.0058	0.003265	33.33	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0073	0.05	No	15	0.008827	0.002656	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.05	0.0033	0.05	No	15	0.01109	0.01125	73.33	None	No	0.01	NP (normality)
Thallium (mg/L)	GWA-7 (bg)	0.001	0.001	0.002	No	11	0.0009545	0.0001508	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWA-8 (bg)	0.001	0.00006	0.002	No	11	0.0007429	0.0004403	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	11	0.0007416	0.0004425	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	11	0.0005925	0.0004693	54.55	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00013	0.002	No	11	0.0004073	0.0003839	27.27	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	11	0.00083	0.0003782	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	11	0.0008282	0.0003823	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000066	0.002	No	11	0.0004998	0.0004791	45.45	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.00011	0.002	No	12	0.0009258	0.0002569	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	11	0.0009136	0.0002864	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000065	0.002	No	11	0.0006646	0.0004654	63.64	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	11	0.0008309	0.0003762	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	11	0.0008515	0.0003351	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)

Non-Parametric Confidence Interval

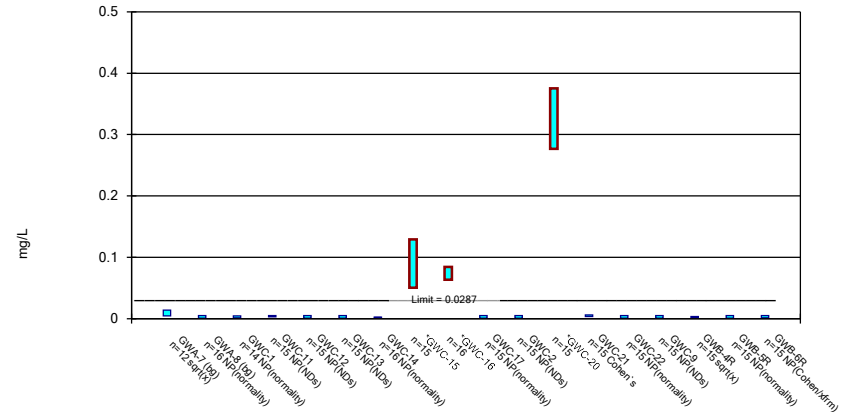
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

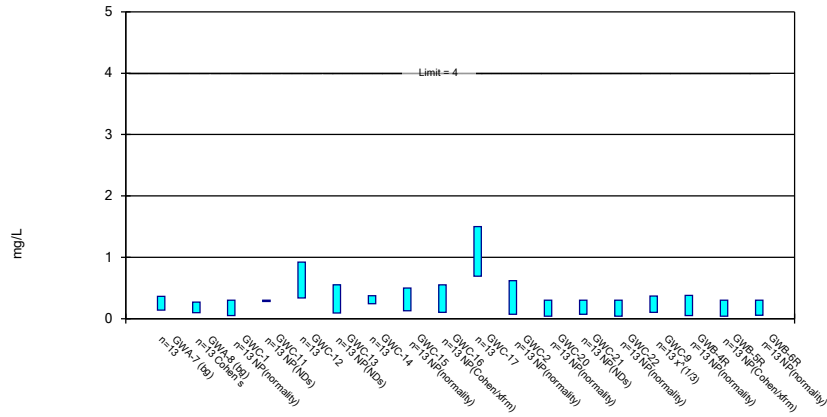
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Parametric and Non-Parametric (NP) Confidence Interval

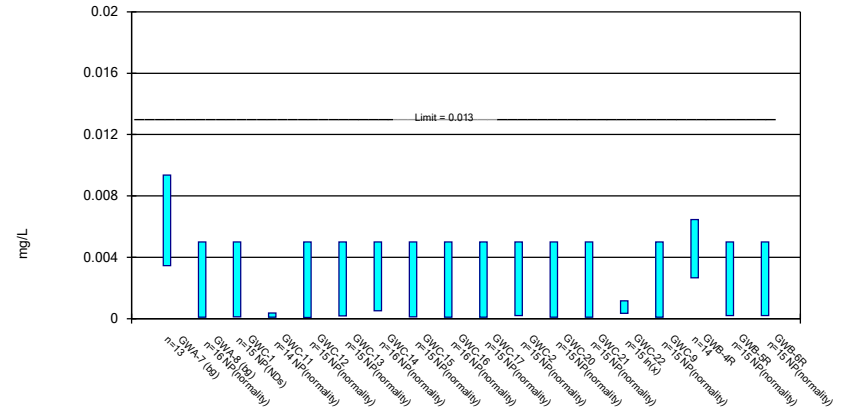
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

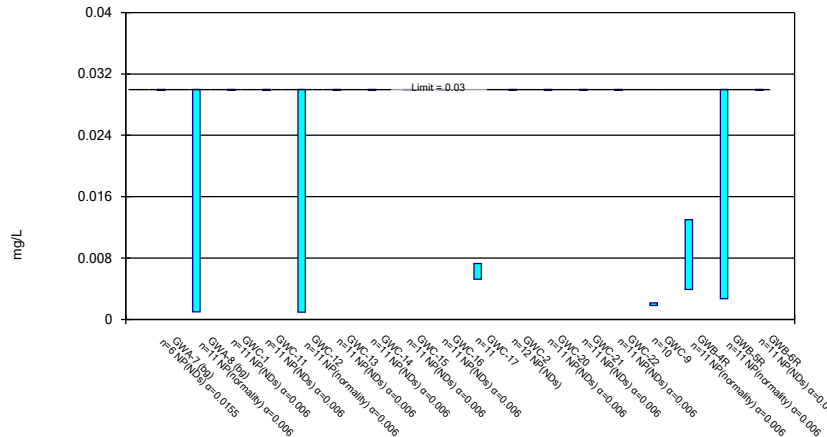
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

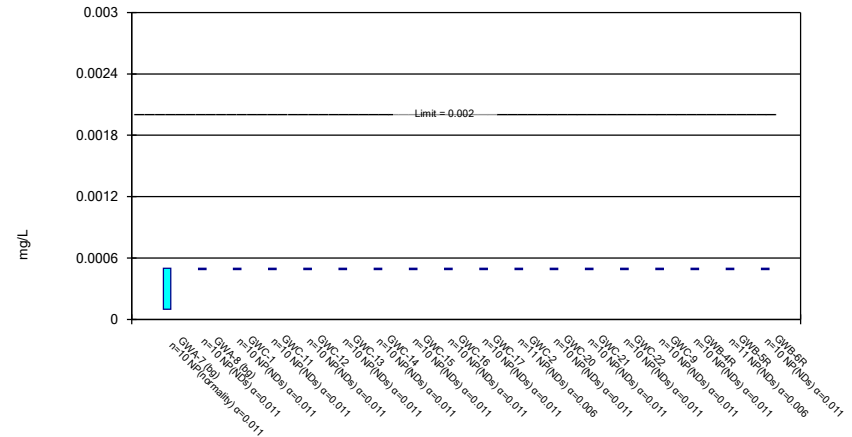
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

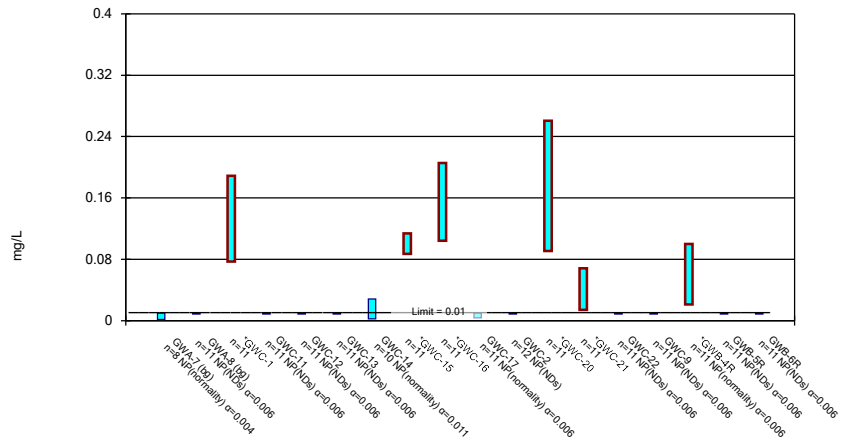
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

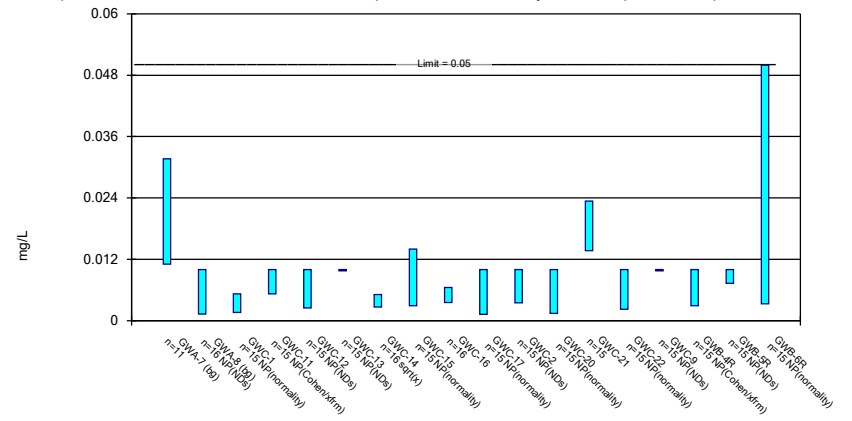
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

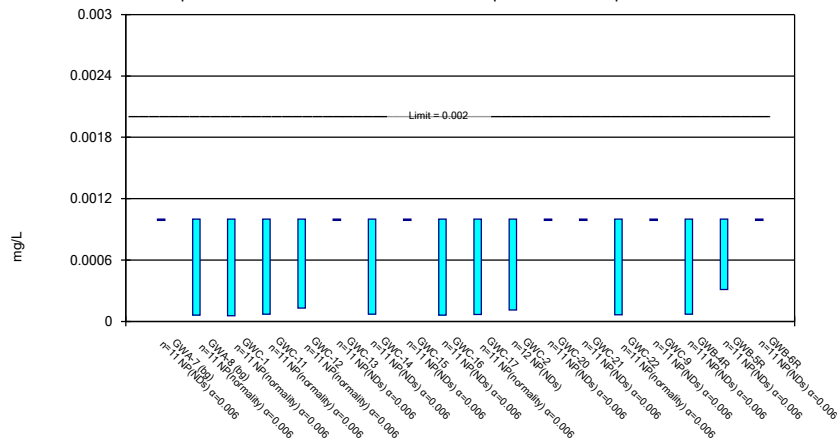
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 6/2/2020 1:52 PM View: Confidence Interval - State
 Grumman Road Landfill Client: Southern Company Data: Grumman Road

FIGURE N.

Confidence Interval Summary Table (Federal) - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes 15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes 16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes 15	0.3261	0.07248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.1	Yes 11	0.1547	0.06085	0	None	No	0.01	Param.

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-7 (bg)	0.003	0.0013	0.006	No	15	0.002513	0.0008568	73.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWA-8 (bg)	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.0005	0.006	No	15	0.001877	0.001249	53.33	None	No	0.01	NP (normality)
Antimony (mg/L)	GWC-12	0.003	0.003	0.006	No	14	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-14	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-16	0.003	0.003	0.006	No	16	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	15	0.002927	0.000284	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.00049	0.006	No	15	0.002663	0.0008903	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	15	0.002729	0.0007552	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.00054	0.006	No	15	0.002836	0.0006352	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.003	0.006	No	15	0.003	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWA-7 (bg)	0.01379	0.004635	0.0287	No	12	0.009508	0.00692	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWA-8 (bg)	0.005	0.0006	0.0287	No	16	0.003391	0.00215	62.5	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-1	0.0042	0.0015	0.0287	No	14	0.004343	0.006598	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-11	0.005	0.005	0.0287	No	15	0.005	0	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0009	0.0287	No	15	0.004153	0.001754	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0006	0.0287	No	15	0.004412	0.001552	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.0026	0.0018	0.0287	No	16	0.002271	0.0008184	6.25	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-15	0.1293	0.05039	0.0287	Yes	15	0.08984	0.05821	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-16	0.08406	0.0633	0.0287	Yes	16	0.07368	0.01595	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-17	0.005	0.0009	0.0287	No	15	0.002521	0.001835	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.0287	No	15	0.004129	0.001807	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-20	0.3752	0.277	0.0287	Yes	15	0.3261	0.07248	0	None	No	0.01	Param.
Arsenic (mg/L)	GWC-21	0.005955	0.00332	0.0287	No	15	0.004067	0.001312	40	Cohen's d	No	0.01	Param.
Arsenic (mg/L)	GWC-22	0.005	0.0006	0.0287	No	15	0.002705	0.002021	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.0287	No	15	0.004723	0.001074	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.003147	0.001641	0.0287	No	15	0.002457	0.001208	13.33	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.005	0.0009	0.0287	No	15	0.002487	0.001924	26.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWB-6R	0.005	0.0011	0.0287	No	15	0.002829	0.001743	33.33	None	No	0.01	NP (Cohens/xfrm)
Barium (mg/L)	GWA-7 (bg)	0.1545	0.0802	2	No	14	0.1174	0.05248	0	None	No	0.01	Param.
Barium (mg/L)	GWA-8 (bg)	0.0664	0.06025	2	No	16	0.06333	0.00472	0	None	No	0.01	Param.
Barium (mg/L)	GWC-1	0.0575	0.04982	2	No	15	0.05366	0.005669	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1125	0.05506	2	No	15	0.08379	0.0424	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0191	0.0162	2	No	15	0.01847	0.003995	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-13	0.02474	0.01968	2	No	15	0.02221	0.003733	0	None	No	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.0248	2	No	16	0.03726	0.01953	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.049	0.04021	2	No	15	0.04461	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1049	0.05422	2	No	14	0.08131	0.0372	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-17	0.1245	0.04703	2	No	15	0.09051	0.06112	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.057	0.049	2	No	14	0.05407	0.008399	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.148	0.078	2	No	15	0.1071	0.03885	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-21	0.07381	0.05031	2	No	15	0.06206	0.01734	0	None	No	0.01	Param.
Barium (mg/L)	GWC-22	0.09974	0.06378	2	No	15	0.08279	0.0285	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-9	0.2743	0.1982	2	No	15	0.2363	0.05612	0	None	No	0.01	Param.
Barium (mg/L)	GWB-4R	0.09633	0.07886	2	No	15	0.08759	0.01289	0	None	No	0.01	Param.
Barium (mg/L)	GWB-5R	0.1628	0.09057	2	No	15	0.1294	0.05934	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.107	0.013	2	No	15	0.07353	0.04511	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWA-7 (bg)	0.003	0.0002	0.004	No	8	0.001225	0.001208	25	None	No	0.004	NP (Cohens/xfrm)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWA-8 (bg)	0.00024	0.0002	0.004	No	11	0.0004564	0.0008438	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-1	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-11	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-12	0.000918	0.0005275	0.004	No	11	0.0007227	0.0002343	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-13	0.003	0.003	0.004	No	11	0.002733	0.000887	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-14	0.003	0.00009	0.004	No	11	0.002205	0.001362	72.73	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-15	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-16	0.003	0.00008	0.004	No	11	0.001147	0.001469	36.36	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-17	0.003159	0.001658	0.004	No	11	0.002427	0.0009318	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.003	0.00009	0.004	No	12	0.00229	0.001286	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-20	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-21	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	GWC-22	0.003	0.00009	0.004	No	11	0.001433	0.001501	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWC-9	0.0003	0.0002	0.004	No	11	0.0002582	0.00004916	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-4R	0.003	0.0001	0.004	No	11	0.001445	0.001491	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-5R	0.003	0.0001	0.004	No	11	0.0007051	0.001137	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	GWB-6R	0.003	0.003	0.004	No	11	0.003	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWA-7 (bg)	0.0025	0.0001	0.005	No	9	0.002033	0.0009381	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	GWA-8 (bg)	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-1	0.0025	0.0001	0.005	No	11	0.002061	0.0009769	81.82	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0007221	0.0001598	0.005	No	11	0.0005255	0.0006754	9.091	None	ln(x)	0.01	Param.
Cadmium (mg/L)	GWC-12	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-13	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-14	0.0025	0.00017	0.005	No	11	0.001234	0.001213	45.45	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-15	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-16	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-17	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-2	0.0025	0.0025	0.005	No	12	0.0025	0	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-21	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWC-22	0.0025	0.0001	0.005	No	11	0.0008245	0.001083	27.27	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWC-9	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-4R	0.0025	0.00009	0.005	No	11	0.001644	0.001189	63.64	None	No	0.006	NP (normality)
Cadmium (mg/L)	GWB-5R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	GWB-6R	0.0025	0.0025	0.005	No	11	0.0025	0	100	None	No	0.006	NP (NDs)
Chromium (mg/L)	GWA-7 (bg)	0.04592	0.02183	0.1	No	14	0.03387	0.017	0	None	No	0.01	Param.
Chromium (mg/L)	GWA-8 (bg)	0.01	0.0006	0.1	No	16	0.007657	0.004192	75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-1	0.0062	0.0015	0.1	No	15	0.002653	0.002337	6.667	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.0007	0.1	No	15	0.005071	0.004747	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.00085	0.1	No	15	0.003005	0.00365	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0007	0.1	No	15	0.005792	0.004666	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-14	0.01	0.00074	0.1	No	16	0.003754	0.004355	31.25	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-15	0.01	0.0012	0.1	No	15	0.004787	0.004412	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0009	0.1	No	16	0.005468	0.004682	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.0009	0.1	No	15	0.004343	0.004295	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.00065	0.1	No	15	0.005669	0.004794	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-20	0.01	0.00089	0.1	No	15	0.005159	0.004688	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.0006	0.1	No	15	0.005641	0.004824	46.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-22	0.01	0.00057	0.1	No	15	0.005612	0.004856	53.33	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-9	0.01	0.001	0.1	No	15	0.004793	0.004418	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWB-4R	0.01066	0.004643	0.1	No	15	0.007653	0.004442	0	None	No	0.01	Param.
Chromium (mg/L)	GWB-5R	0.012	0.0011	0.1	No	15	0.009707	0.01775	26.67	None	No	0.01	NP (Cohens/xfm)
Chromium (mg/L)	GWB-6R	0.011	0.0013	0.1	No	15	0.005607	0.005891	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWA-7 (bg)	0.00677	0.00267	0.0102	No	10	0.00472	0.002298	0	None	No	0.01	Param.
Cobalt (mg/L)	GWA-8 (bg)	0.005	0.0004	0.0102	No	11	0.002095	0.002304	36.36	None	No	0.006	NP (normality)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-1	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-11	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-12	0.001461	0.0009338	0.0102	No	11	0.001197	0.0003162	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-13	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-14	0.005	0.005	0.0102	No	11	0.004573	0.001417	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-15	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-16	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-17	0.006889	0.003475	0.0102	No	11	0.005182	0.002048	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-2	0.005	0.0003	0.0102	No	12	0.003115	0.002339	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-20	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-21	0.005	0.005	0.0102	No	11	0.005	0	100	None	No	0.006	NP (NDs)
Cobalt (mg/L)	GWC-22	0.005	0.0007	0.0102	No	11	0.002676	0.00223	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWC-9	0.0017	0.00099	0.0102	No	9	0.001453	0.0003465	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	GWB-4R	0.0024	0.0008	0.0102	No	11	0.001509	0.001244	9.091	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-5R	0.005	0.00053	0.0102	No	11	0.003548	0.001882	54.55	None	No	0.006	NP (normality)
Cobalt (mg/L)	GWB-6R	0.005	0.005	0.0102	No	11	0.00458	0.001393	90.91	None	No	0.006	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWA-7 (bg)	16.91	4.867	33.8	No	11	11.4	9.532	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWA-8 (bg)	2.886	1.863	33.8	No	11	2.375	0.6138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.45	1.595	33.8	No	11	2.023	0.5129	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.309	2.104	33.8	No	11	4.207	2.523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	3.199	1.981	33.8	No	11	2.59	0.7307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.373	0.6802	33.8	No	11	1.026	0.4155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.353	0.8114	33.8	No	11	1.082	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	1.815	0.9742	33.8	No	11	1.395	0.5045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	2.13	1.72	33.8	No	11	2.042	0.7575	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWC-17	4.417	2.7	33.8	No	11	3.558	1.03	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.008	0.5555	33.8	No	11	0.7818	0.2716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	3.207	1.453	33.8	No	11	2.33	1.053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	1.862	1.039	33.8	No	11	1.451	0.4937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	7.261	4.254	33.8	No	11	5.757	1.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	4.327	2.194	33.8	No	11	3.362	1.746	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-4R	5.1	2.32	33.8	No	11	3.632	1.278	0	None	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.833	1.921	33.8	No	11	2.971	1.568	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	4.613	1.962	33.8	No	11	3.287	1.591	0	None	No	0.01	Param.
Fluoride (mg/L)	GWA-7 (bg)	0.3628	0.1388	4	No	13	0.2508	0.1506	30.77	None	No	0.01	Param.
Fluoride (mg/L)	GWA-8 (bg)	0.269	0.09469	4	No	13	0.1724	0.1027	15.38	Cohen's d	No	0.01	Param.
Fluoride (mg/L)	GWC-1	0.3	0.051	4	No	13	0.2455	0.09649	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-11	0.3	0.3	4	No	13	0.3	0	100	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.9234	0.3391	4	No	13	0.6312	0.3929	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-13	0.55	0.09	4	No	13	0.284	0.1172	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.3707	0.2416	4	No	13	0.3062	0.08685	53.85	None	No	0.01	Param.
Fluoride (mg/L)	GWC-15	0.5	0.13	4	No	13	0.2662	0.1082	61.54	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-16	0.55	0.1	4	No	13	0.3092	0.2106	46.15	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWC-17	1.5	0.6906	4	No	13	1.095	0.5444	7.692	None	No	0.01	Param.
Fluoride (mg/L)	GWC-2	0.62	0.07	4	No	13	0.2264	0.1614	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-20	0.3	0.04	4	No	13	0.2264	0.118	69.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-21	0.3	0.071	4	No	13	0.2824	0.06351	92.31	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.3	0.04	4	No	13	0.1977	0.1179	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-9	0.3664	0.1032	4	No	13	0.2572	0.2511	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.38	0.05	4	No	13	0.3004	0.2966	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-5R	0.3	0.04	4	No	13	0.1641	0.1206	38.46	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GWB-6R	0.3	0.053	4	No	13	0.1868	0.1042	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	GWA-7 (bg)	0.009351	0.003464	0.013	No	13	0.006408	0.003959	0	None	No	0.01	Param.
Lead (mg/L)	GWA-8 (bg)	0.005	0.0001	0.013	No	16	0.003169	0.002442	62.5	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-1	0.005	0.00012	0.013	No	15	0.004348	0.001721	86.67	None	No	0.01	NP (NDs)

Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-11	0.00036	0.0001	0.013	No	14	0.00058	0.001274	7.143	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.005	0.000081	0.013	No	15	0.001983	0.002358	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.005	0.00017	0.013	No	15	0.002021	0.002208	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.005	0.00051	0.013	No	16	0.003799	0.00215	75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-15	0.005	0.00012	0.013	No	15	0.002756	0.002484	53.33	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-16	0.005	0.0001	0.013	No	16	0.002271	0.002486	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-17	0.005	0.0001	0.013	No	15	0.003422	0.002317	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-2	0.005	0.0002	0.013	No	15	0.00339	0.002358	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-20	0.005	0.0001	0.013	No	15	0.003374	0.00238	66.67	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-21	0.005	0.00009	0.013	No	15	0.003046	0.002477	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-22	0.001163	0.0003349	0.013	No	15	0.001011	0.001307	6.667	None	ln(x)	0.01	Param.
Lead (mg/L)	GWC-9	0.005	0.0001	0.013	No	15	0.003091	0.002425	60	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-4R	0.006465	0.00267	0.013	No	14	0.004567	0.002679	14.29	None	No	0.01	Param.
Lead (mg/L)	GWB-5R	0.005	0.0002	0.013	No	15	0.00242	0.002266	40	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.005	0.0002	0.013	No	15	0.002544	0.002389	46.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWA-7 (bg)	0.03	0.03	0.04	No	6	0.03	0	100	None	No	0.0155	NP (NDs)
Lithium (mg/L)	GWA-8 (bg)	0.03	0.001	0.04	No	11	0.01948	0.0146	63.64	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-1	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-11	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	11	0.01683	0.01513	54.55	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-13	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-14	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-15	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-16	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-17	0.007283	0.005226	0.04	No	11	0.006255	0.001234	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-2	0.03	0.03	0.04	No	12	0.03	0	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-20	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-21	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-22	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-9	0.002162	0.001798	0.04	No	10	0.00198	0.0002044	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-4R	0.013	0.0039	0.04	No	11	0.0073	0.00417	0	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-5R	0.03	0.0027	0.04	No	11	0.01333	0.01325	36.36	None	No	0.006	NP (normality)
Lithium (mg/L)	GWB-6R	0.03	0.03	0.04	No	11	0.03	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWA-7 (bg)	0.0005	0.0001	0.002	No	10	0.000381	0.000194	70	None	No	0.011	NP (normality)
Mercury (mg/L)	GWA-8 (bg)	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-1	0.0005	0.0005	0.002	No	10	0.000454	0.0001455	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-11	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-12	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-13	0.0005	0.0005	0.002	No	10	0.000463	0.000117	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-14	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-15	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-16	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-17	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-2	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWC-20	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-21	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-22	0.0005	0.0005	0.002	No	10	0.0005	0	100	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWC-9	0.0005	0.0005	0.002	No	10	0.000455	0.0001423	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-4R	0.0005	0.0005	0.002	No	10	0.0004549	0.0001426	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0005	0.0005	0.002	No	11	0.0005	0	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0005	0.0005	0.002	No	10	0.0004543	0.0001445	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	GWA-7 (bg)	0.01	0.0013	0.1	No	8	0.0078	0.004012	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GWA-8 (bg)	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1888	0.07681	0.1	No	11	0.1328	0.06721	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.01	0.1	No	11	0.009255	0.002472	90.91	None	No	0.006	NP (NDs)

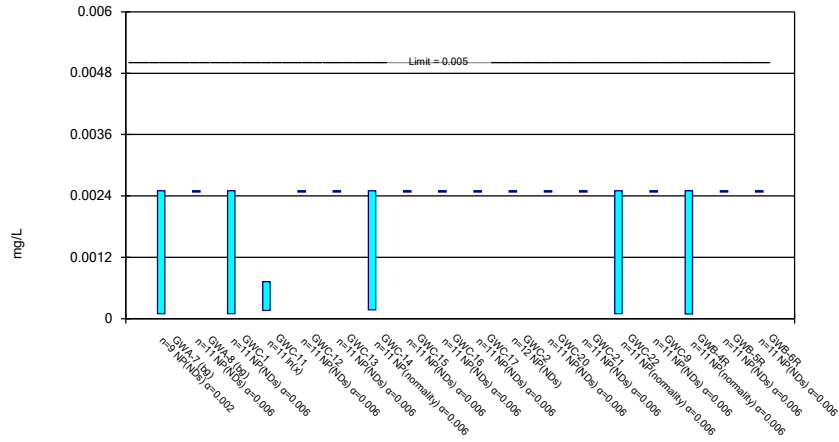
Confidence Interval Summary Table (Federal) - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Printed 6/2/2020, 1:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GWC-12	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.01	0.01	0.1	No	11	0.0096	0.001327	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.028	0.0022	0.1	No	10	0.00946	0.01198	0	None	No	0.011	NP (normality)
Molybdenum (mg/L)	GWC-15	0.1139	0.08688	0.1	No	11	0.1004	0.01621	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-16	0.2054	0.104	0.1	Yes	11	0.1547	0.06085	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-17	0.01	0.0036	0.1	No	11	0.008182	0.003136	72.73	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWC-2	0.01	0.01	0.1	No	12	0.01	0	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-20	0.2605	0.09096	0.1	No	11	0.1757	0.1017	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-21	0.06805	0.01392	0.1	No	11	0.04098	0.03248	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWC-9	0.01	0.01	0.1	No	11	0.01	0	100	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-4R	0.1	0.0209	0.1	No	11	0.04843	0.04052	0	None	No	0.006	NP (normality)
Molybdenum (mg/L)	GWB-5R	0.01	0.01	0.1	No	11	0.0092	0.002653	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.01	0.1	No	11	0.009327	0.002231	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	GWA-7 (bg)	0.03164	0.01103	0.05	No	11	0.02134	0.01237	0	None	No	0.01	Param.
Selenium (mg/L)	GWA-8 (bg)	0.01	0.0013	0.05	No	16	0.008894	0.003023	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1	0.0052	0.0016	0.05	No	15	0.004147	0.005656	6.667	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.01	0.0052	0.05	No	15	0.009033	0.005691	26.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-12	0.01	0.0025	0.05	No	15	0.008427	0.003259	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-13	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.00512	0.002676	0.05	No	16	0.004017	0.002087	6.25	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-15	0.014	0.0029	0.05	No	15	0.00846	0.00334	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-16	0.006459	0.003525	0.05	No	16	0.004992	0.002255	6.25	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.01	0.0012	0.05	No	15	0.00616	0.00431	53.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2	0.01	0.0035	0.05	No	15	0.009033	0.002567	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.01	0.0014	0.05	No	15	0.007127	0.004206	66.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-21	0.0234	0.01368	0.05	No	15	0.01854	0.007169	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-22	0.01	0.0022	0.05	No	15	0.007793	0.003799	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-9	0.01	0.01	0.05	No	15	0.01	0	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-4R	0.01	0.0029	0.05	No	15	0.0058	0.003265	33.33	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWB-5R	0.01	0.0073	0.05	No	15	0.008827	0.002656	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.05	0.0033	0.05	No	15	0.01109	0.01125	73.33	None	No	0.01	NP (normality)
Thallium (mg/L)	GWA-7 (bg)	0.001	0.001	0.002	No	11	0.0009545	0.0001508	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWA-8 (bg)	0.001	0.00006	0.002	No	11	0.0007429	0.0004403	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-1	0.001	0.000054	0.002	No	11	0.0007416	0.0004425	72.73	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-11	0.001	0.00007	0.002	No	11	0.0005925	0.0004693	54.55	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-12	0.001	0.00013	0.002	No	11	0.0004073	0.0003839	27.27	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-13	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-14	0.001	0.00007	0.002	No	11	0.00083	0.0003782	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-15	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-16	0.001	0.00006	0.002	No	11	0.0008282	0.0003823	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-17	0.001	0.000066	0.002	No	11	0.0004998	0.0004791	45.45	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-2	0.001	0.00011	0.002	No	12	0.0009258	0.0002569	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-20	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-21	0.001	0.001	0.002	No	11	0.0009136	0.0002864	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWC-22	0.001	0.000065	0.002	No	11	0.0006646	0.0004654	63.64	None	No	0.006	NP (normality)
Thallium (mg/L)	GWC-9	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-4R	0.001	0.00007	0.002	No	11	0.0008309	0.0003762	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-5R	0.001	0.00031	0.002	No	11	0.0008515	0.0003351	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	GWB-6R	0.001	0.001	0.002	No	11	0.001	0	100	None	No	0.006	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

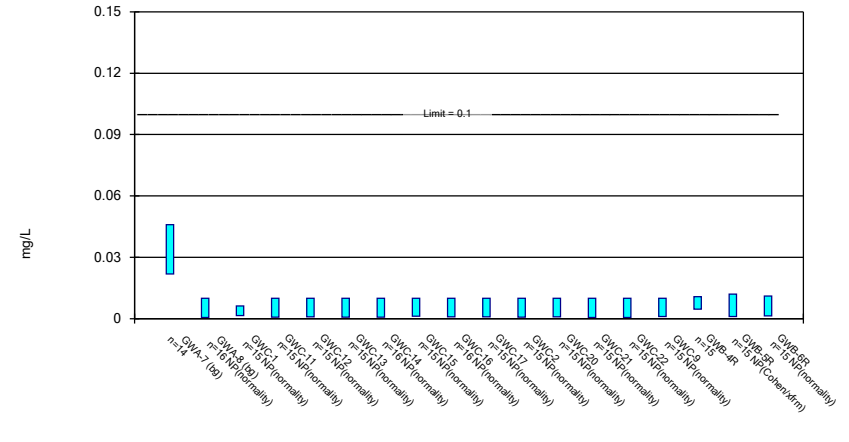
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 6/2/2020 1:55 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

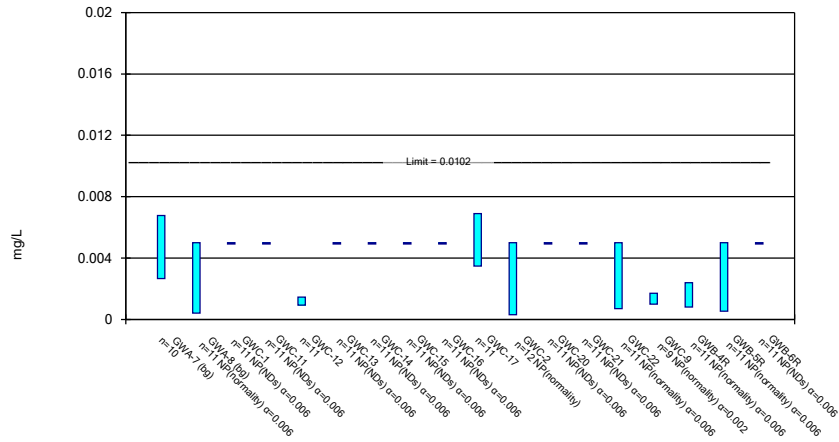
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/2/2020 1:55 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

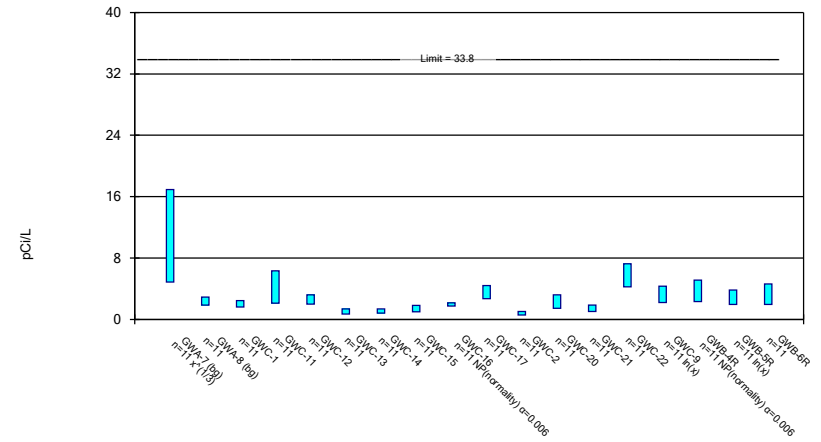
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/2/2020 1:55 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

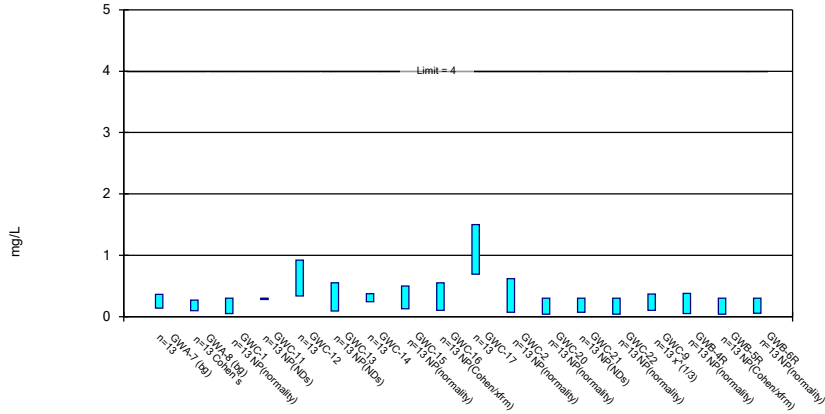
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2020 1:55 PM View: Confidence Intervals - F
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

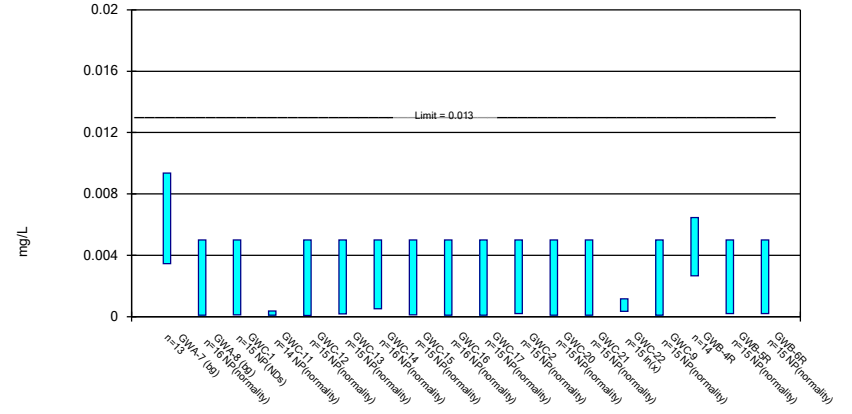
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

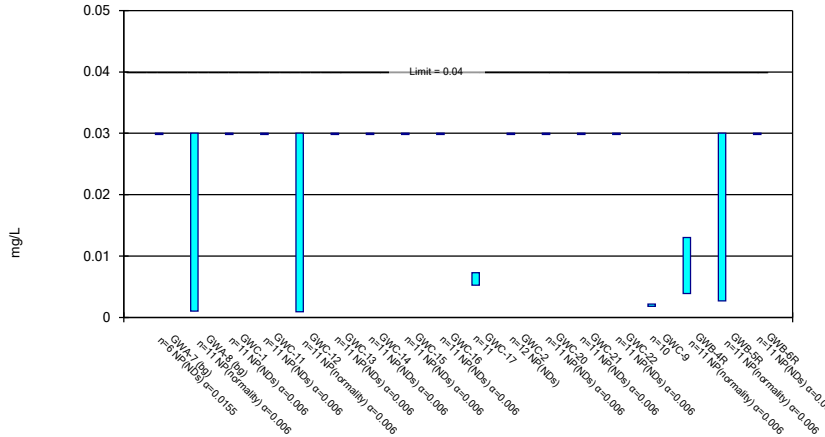
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

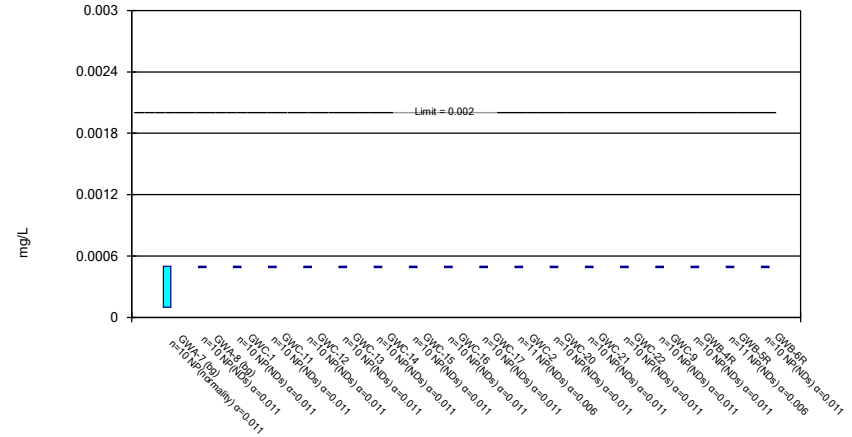
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

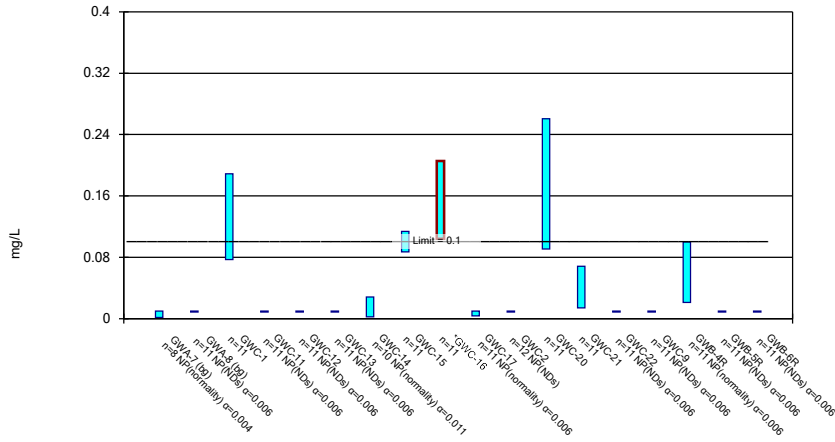
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Parametric and Non-Parametric (NP) Confidence Interval

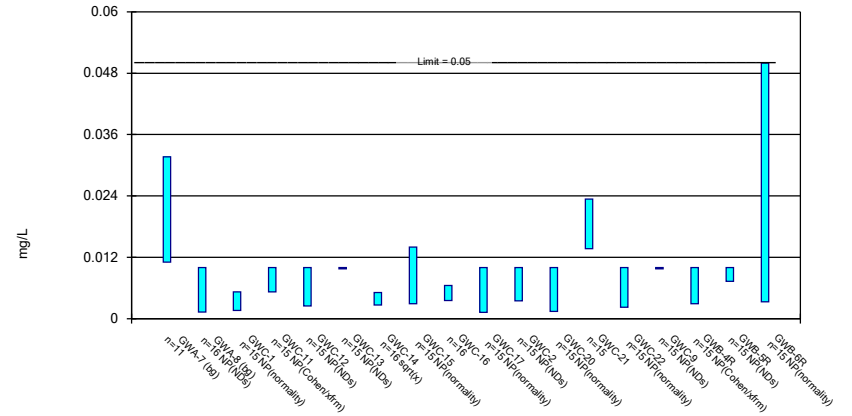
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Parametric and Non-Parametric (NP) Confidence Interval

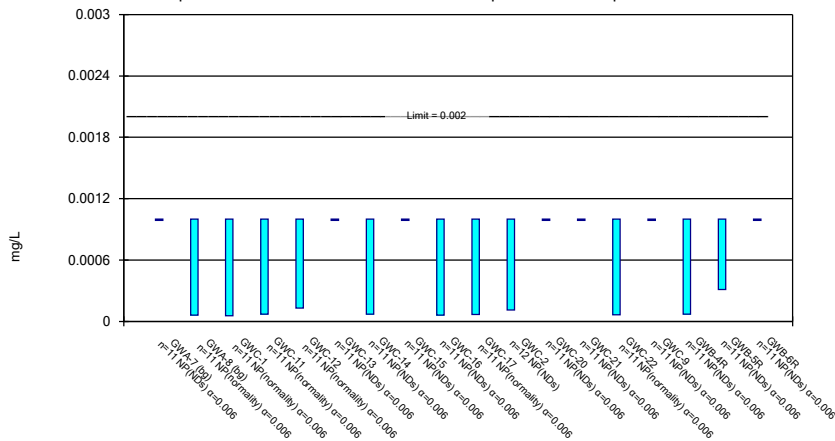
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 6/2/2020 1:56 PM View: Confidence Intervals - Federal
Grumman Road Landfill Client: Southern Company Data: Grumman Road