

Georgia Power Company
Plant Wansley CCR Landfill
PERMIT #: 074-005D(LI)
Heard County

2020 SEMIANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT



PROFESSIONAL CERTIFICATION

This *2020 Semiannual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant Wansley Landfill* has been prepared in compliance with the United States Environmental Protection Agency coal combustion rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and 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 United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) rule (40 CFR 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, ACC has prepared this *2020 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Wansley CCR Landfill (Site). Semiannual monitoring and reporting for the CCR unit are performed in accordance with the monitoring requirements of 40 CFR § 257.90 through § 257.95 of the Federal CCR rule, and Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

Groundwater monitoring is currently performed in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan (GPC, 2010). A 2017 minor modification to the permit approved the addition of Appendix III and IV parameters contained in 40 CFR § 257 Subpart D to the groundwater monitoring plan in the permit. An application for a new Georgia CCR permit was submitted to EPD in November 2018 for the facility to replace the existing Solid Waste Permit.

This report provides the results of the sampling event conducted in March 2020 and includes: (1) results for a list of constituents derived from Appendix I and II of 40 CFR § 258 included in the D&O Plan in the permit; and (2) CCR detection monitoring sampling event for 40 CFR § 257 Appendix III constituents.

This document serves as the 2020 Semiannual Groundwater Monitoring and Corrective Action Report in accordance with 391-3-4-.10(6)(a) and 40 CFR § 257.90(e).

1.1 Site Description and Background

Plant Wansley is located in northeast Heard County and southeast Carroll County, Georgia, at 1371 Liberty Church Road, approximately 12 miles southeast of the City of Carrollton. The plant property encompasses approximately 5,100 acres and is bounded on the east by the Chattahoochee River (Figure 1, Site Map). The Site is located onsite south of the plant. The Site is composed of three cells within an approximate 73-acre disposal footprint.

1.2 Regional Geology and Hydrogeologic Setting

The Site is located in the Piedmont physiographic province of Georgia characterized by low, linear ridges separated by broad, open valleys trending northeast-southwest. The Piedmont contains predominately metamorphic rock of Precambrian to Paleozoic age. Over geologic time the Piedmont has experienced multiple events of uplift, folding and faulting, alternation, and erosion.

Soils in the Piedmont formed mostly from the in-place weathering of the underlying crystalline bedrock. Near the ground surface, the soils are silt- and clay-rich. Sand and fine sand become more prominent with depth. Furthermore, with increasing depth the weathered materials tend to retain details of the structural features of the underlying bedrock.

The Site is situated on several bedrock types composed of schist, gneiss, quartzite, and amphibolite identified in boring logs. Residual soils are primarily sandy silt, silty sand, sandy clay, and silty clay which overlie bedrock across the site. Saprolitic soils were described at variable thickness across the Site but were generally encountered at or near ground surface.

Groundwater occurs across the Site in the overburden soils, as well as in the underlying and hydraulically connected bedrock. Recharge to the bedrock originates from groundwater stored in low permeability, high porosity, clay- and silt-rich overburden material. Infiltration of groundwater through overburden material to bedrock occurs in areas of enhanced permeability (i.e., areas of high fracture density). The water table surface at the Site is a subdued mimic of the topography. Top of the rock surface generally follows topography and likely controls groundwater flow direction in the uppermost aquifer as well. Groundwater flow across Plant Wansley is generally to the south and east.

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was installed within the uppermost aquifer at Plant Wansley CCR Landfill. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Figure 2, Well Location Map, shows the monitoring well locations. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1, Monitoring Network Well Summary).

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during 2020 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93. Samples were collected in March 2020 from each well in the certified monitoring system shown on Figure 2.

2.1 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in early 2020; the network remained the same as in the 2019 (previous) reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the conditions, and performing exterior maintenance to perform sampling under safe and clean conditions. A well inspection checklist completed during sampling is included in Appendix A, Laboratory Analytical and Field Sampling Reports.

2.2 Detection Monitoring Program

Detection monitoring is performed on a semiannual basis in accordance with the approved Georgia EPD Solid Waste Permit and the Site's D&O Plan. The first semiannual sampling event was conducted in March 2020. Verification resampling was completed in May 2020 for boron at GWC-15. A summary of groundwater sampling events completed during the semiannual period is provided in Table 2, Groundwater Sampling Event Summary.

Groundwater samples from wells in the detection monitoring system were collected from each monitoring well and analyzed for:

- A state-modified Appendix I list of detection parameters according to EPD Rules for Solid Waste Management 391-3-4-.14 and the approved Georgia EPD Solid Waste Permit [No. 074-005D(LI)]. The state-modified Appendix I analyte list includes antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

- Appendix III constituents according to 40 CFR § 257.94(a).

A summary of the analytes required by Appendix I, Appendix III, and Appendix IV is provided in Table 3, Summary of Groundwater Monitoring Parameters. Copies of the analytical data packages for the semiannual detection monitoring event are included in Appendix A.

2.3 Additional Sampling

Surface water samples were collected from SWA-1, SWC-5, SWC-7, and SWC-8 during the March 2020 event. Locations SWA-6, SWC-2, SWC-3, SWC-4, and SWC-9 were dry during the event. Results are presented in Table 4, Summary of Surface Water Analytical Data – March 2020.

Due to reduced plant operation, flue gas desulfurization (FGD) equipment Units 1 and 2 were not in operation during early 2020; therefore, no effluent samples were collected. Field parameter logs and laboratory analytical reports for surface water samples collected during the March 2020 monitoring event are included in Appendix A.

2.4 Alternate Source Demonstrations

As discussed in Section 4.0, there were statistically significant increases (SSIs) of Appendix I and Appendix III parameters above background identified for the March 2020 data set that have not previously been addressed by an alternate source demonstration (ASD). In accordance with Georgia Rule 391-3-4-.10(6)(a) and 40 CFR § 257.94(e)(2), an ASD for Appendix I and III SSIs identified during the March event is provided in Appendix B, Alternate Source Demonstrations. A summary of historical SSIs and ASDs is provided in Appendix C. These ASDs demonstrate that the SSIs are not associated with a release from the landfill.

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 sampling, groundwater elevations were recorded from each well in the network at the Site. Groundwater elevations recorded during the monitoring event are summarized in Table 5, Summary of Groundwater Elevations – March 2020. Groundwater elevation data were used to develop Figure 3, Potentiometric Surface Map – March 2020. As shown on the figure, groundwater flows semi-radially from topographic highs near GWA-2 and GWA-28. Across the entire Site, groundwater generally flows to the east. The groundwater flow pattern observed during the March 2020 monitoring event is consistent with historical patterns.

The horizontal groundwater flow velocity at the Site was calculated using a derivation of Darcy's Law. Specifically:

Equation

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

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

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 0.10. The groundwater flow velocity has been calculated and is tabulated on Table 6, Horizontal Groundwater Flow Velocity Calculations – March 2020. The calculated flow velocity was approximately 0.49 feet per day in the March 2020 event.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using either a peristaltic pump or non-dedicated QED bladder pump. In all cases pump intakes were located at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations using procedures described in the latest version of the Region 4 US EPA SESD Operating Procedure for Field Equipment Cleaning and Decontamination as a guide.

Monitoring wells were purged and sampled using low-flow sampling procedures. An Aqua Troll 400 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, specific conductance, 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
- $\pm 5\%$ for specific conductance
- $\pm 10\%$ for DO where DO > 0.5 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 Eurofins TestAmerica, Inc. (Eurofins) of Pittsburgh, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Groundwater samples were collected during the groundwater monitoring event in March 2020. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Samples were analyzed for Appendix III parameters and metals required by the current state permit during the monitoring event performed in March 2020.

Analytical data collected in the monitoring event are summarized in Table 7, Summary of Groundwater Analytical Data – March 2020.

Laboratory analyses were performed by Eurofins. Eurofins is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Eurofins 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 sample per every 10 detection samples. Equipment blanks (where non-dedicated sampling equipment is used) and duplicate samples were collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were validated in accordance with 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 (RPD), 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). A summary of the data validation is included in Appendix A.

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 (RL). 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 the Site 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 March 2020 groundwater monitoring data was performed by GSC following the appropriate certified statistical methodology for the Site. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 8, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix C, Statistical Analysis Report. A summary of methods and results are provided in the following sections.

4.1 Appendix I and III Constituents Methods

To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix I and III parameter. 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.

A permit minor modification was submitted to EPD following submittal of the *2019 First Semiannual Groundwater Monitoring Report* to allow for intrawell methods to be used for Appendix I analytes. The statistical methodology was revised to an intrawell method following the June 2019 monitoring event.

Statistical tests used to evaluate Appendix I groundwater monitoring data consist of intrawell prediction limits combined with a 1-of-3 verification resample plan for all required metals, except for cobalt and nickel at GWC-14. The occurrence of cobalt and nickel at GWC-14 was previously addressed in an ASD; results for these metals are evaluated by trend tests.

Statistical tests used to evaluate Appendix III groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification resample plan for parameters boron, calcium, chloride, and fluoride. Monitoring results for pH, sulfate, and total dissolved solids (TDS) were 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 data from a sampling event initially exceeds the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an 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. In 1-of-3 resampling, two independent resamples 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 an 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.

4.2 Statistical Analyses Results for Appendix I Parameters

Initial exceedances and previously verified SSIs for barium and zinc were identified for downgradient well sample results by the statistical analysis. The initial exceedances were not resampled and are therefore also considered SSIs. The table below summarizes current Appendix I SSIs. Exceedances identified in upgradient well samples are not considered SSIs since they are not indicative of a unit related impact. The natural occurrence of barium and zinc in site groundwater were documented in previous ASDs (SCS, 2017 and ACC, 2020). The August 2020 ASD to address the occurrence of new verified SSIs for these Appendix I parameters is provided in Appendix B. The April 2020 ASD is included as an appendix to the August 2020 ASD. A summary of historical SSIs and ASDs is provided in Appendix C.

Location of SSI	Constituent	Date of ASD
GWC-7	Zinc	8/2020
GWC-8	Zinc	8/2020
GWC-9	Zinc	8/2020
GWC-14	Barium	4/2020
GWC-14	Zinc	4/2020
GWC-18	Barium	4/2020
GWC-19	Barium	8/2020
GWC-21	Barium	8/2020
GWC-30	Zinc	8/2020

Location of SSI	Constituent	Date of ASD
GWC-31	Zinc	4/2020
GWC-32	Zinc	4/2020

4.3 Statistical Analyses Results for Appendix III Parameters

Based on the statistical results presented in Appendix C, the following summarizes parameters exhibiting verified prediction limit exceedances during the March monitoring event:

- Boron: GWC-14
- Chloride: GWC-14
- pH: GWC-26
- Sulfate: GWC-6, GWC-13, GWC-17, GWC-24, GWC-26, GWC-30, GWC-34, GWC-35

Boron at GWC-15 is not considered an SSI because verification resampling completed in May 2020 resulted in a concentration below the prediction limit. The SSIs for boron and chloride at GWC-14 are consistent with historical results and were previously addressed by an ASD completed in April 2018 (ACC, 2018). The exceedances for sulfate at GWC-6, GWC-13, GWC-17, GWC-24, GWC-26, GWC-30, GWC-34, GWC-35 and pH at GWC-26 are considered verified because they were not resampled. These new verified SSIs are addressed by the August 2020 ASD included in Appendix B. A summary of current SSIs for Appendix III parameters and summary of ASDs is provided in the table below. A summary of historical SSIs is provided in Appendix C.

Location of SSI	Constituent	Date of ASD
GWC-6	Sulfate	8/2020
GWC-13	Sulfate	8/2020
GWC-14	Boron	4/2018
GWC-14	Chloride	4/2018
GWC-17	Sulfate	8/2020
GWC-24	Sulfate	8/2020
GWC-26	pH	8/2020
GWC-26	Sulfate	8/2020
GWC-30	Sulfate	8/2020
GWC-34	Sulfate	8/2020
GWC-35	Sulfate	8/2020

4.4 ASD Summary

An August 2020 ASD to address Appendix I and III SSIs not previously addressed by other ASDs is provided in Appendix B. The following lines of evidence presented in the August 2020 ASD and in previous ASDs demonstrate that a release from the CCR Landfill is not the source of the SSIs and explain the likely cause:

- Reported intrawell SSIs are frequently the result of low variability during background resulting in conservatively low statistical limits. The low statistical limits are exceeded by even slight variability in groundwater quality. The intrawell SSIs would not be SSIs if compared to interwell statistical limits that allow for the inclusion of the full range of site background concentrations (i.e. the observed SSIs are within concentration ranges observed in upgradient wells).
- SSIs of primary CCR indicator parameters listed in Appendix III such as boron and chloride do not exhibit SSIs in these wells. A release from the CCR Landfill would result in multiple Appendix III constituent SSIs at elevated concentrations, and this has not occurred. Groundwater samples from these wells do not exhibit geochemical characteristics of groundwater that has been impacted by CCR materials.
- Prior ASDs have documented the natural occurrence and variability of these metals in Site earth materials and groundwater.
- Review of equipment and field blank data has identified low-level detections of sulfate, indicating that sampling or analytical variability has contributed to the low-level concentrations of the SSIs.
- Review of field data has identified the pH SSI was due to an instrumental accuracy error.

5.0 MONITORING PROGRAM STATUS

The Site groundwater monitoring network remains in detection monitoring. Verified SSIs of Appendix III and permit-required Appendix I parameters were addressed by previous ASDs or the August 2020 ASD included in Appendix B of this report.

6.0 CONCLUSIONS AND FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix I parameters required by the existing EPD permit and Appendix III groundwater monitoring parameters. All SSIs have been addressed by ASDs and the Site remains in detection monitoring.

The next semiannual monitoring event is tentatively scheduled for September 2020.

7.0 REFERENCES

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U.S. EPA, 2013, Groundwater Sampling – Operating Procedure: SESDPROC-3-1-R3, Athens, Georgia, 31 p.

U.S. EPA, 2015, Field Equipment Cleaning and Decontamination – Operating Procedure: SESDPROC-205-R3, Athens, Georgia, 18 p.

TABLES

Table 1
Monitoring Network Well Summary

Well	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Purpose
GWA-1	03/03/2011	49.85	728.15	39.85	738.15	Upgradient
GWA-2	03/03/2011	60.07	755.93	50.07	765.93	Upgradient
GWA-3	03/03/2011	31.16	758.82	21.16	768.82	Upgradient
GWA-4	02/11/2011	40.61	738.78	30.61	748.78	Upgradient
GWC-5	02/10/2011	40.68	714.92	30.68	724.92	Downgradient
GWC-6	02/10/2011	31.08	718.70	21.08	728.70	Downgradient
GWC-7	02/10/2011	25.90	705.07	15.90	715.07	Downgradient
GWC-8	02/22/2011	20.03	703.27	10.03	713.27	Downgradient
GWC-9	02/23/2011	19.41	693.15	9.41	703.15	Downgradient
GWC-10	07/12/2011	22.00	687.47	12.00	697.47	Downgradient
GWC-11	02/23/2011	18.23	682.73	8.23	692.73	Downgradient
GWC-12	02/24/2011	40.63	683.59	30.63	693.59	Downgradient
GWC-13	02/28/2011	90.42	603.33	80.42	613.33	Downgradient
GWC-14	06/28/2011	24.55	668.26	14.55	678.26	Downgradient
GWC-15	02/28/2011	51.06	636.51	41.06	646.51	Downgradient
GWC-16	06/28/2011	26.97	663.15	16.97	673.15	Downgradient
GWC-17	06/28/2011	53.34	651.00	43.34	661.00	Downgradient
GWC-18	03/01/2011	30.51	669.69	20.51	679.69	Downgradient
GWC-19	07/13/2011	38.56	662.30	28.56	672.30	Downgradient
GWC-20	03/01/2011	71.08	634.55	61.08	644.55	Downgradient
GWC-21	07/12/2011	38.30	682.77	28.30	692.77	Downgradient
GWC-22	03/02/2011	77.15	666.99	67.15	676.99	Downgradient
GWC-23	03/02/2011	68.05	705.42	58.05	715.42	Downgradient
GWC-24	02/15/2011	51.05	738.93	41.05	748.93	Downgradient
GWC-25	02/15/2011	61.23	750.88	51.23	760.88	Downgradient
GWC-26	02/16/2011	59.43	725.99	49.43	735.99	Downgradient
GWC-27	02/16/2011	70.83	743.24	60.83	753.24	Downgradient
GWA-28	02/22/2011	45.78	803.25	35.78	813.25	Upgradient
GWA-29	06/27/2011	57.13	777.57	47.13	787.57	Upgradient
GWC-30	02/17/2011	49.58	741.45	39.58	751.45	Downgradient
GWC-31	06/21/2011	38.02	759.52	28.02	769.52	Downgradient
GWC-32	02/18/2011	31.05	754.17	21.05	764.17	Downgradient
GWC-33	02/18/2011	23.99	736.04	13.99	746.04	Downgradient
GWC-34	02/21/2011	51.25	683.84	41.25	693.84	Downgradient
GWC-35	02/08/2011	40.78	690.11	30.78	700.11	Downgradient

Notes:

1. ft BTOC indicates feet below top of casing.
2. NAVD88 indicates feet relative to North American Vertical Datum of 1988.

**Table 2
Groundwater Sampling Event Summary**

Well	Hydraulic Location	Mar. 10-19, 2020	May 4, 2020
Purpose of Sampling Event		Detection	Verification
GWA-1	Upgradient	D-07	--
GWA-2	Upgradient	D-07	--
GWA-3	Upgradient	D-07	--
GWA-4	Upgradient	D-07	--
GWC-5	Downgradient	D-07	--
GWC-6	Downgradient	D-07	--
GWC-7	Downgradient	D-07	--
GWC-8	Downgradient	D-07	--
GWC-9	Downgradient	D-07	--
GWC-10	Downgradient	D-07	--
GWC-11	Downgradient	D-07	--
GWC-12	Downgradient	D-07	--
GWC-13	Downgradient	D-07	--
GWC-14	Downgradient	D-07	--
GWC-15	Downgradient	D-07	V-07
GWC-16	Downgradient	D-07	--
GWC-17	Downgradient	D-07	--
GWC-18	Downgradient	D-07	--
GWC-19	Downgradient	D-07	--
GWC-20	Downgradient	D-07	--
GWC-21	Downgradient	D-07	--
GWC-22	Downgradient	D-07	--
GWC-23	Downgradient	D-07	--
GWC-24	Downgradient	D-07	--
GWC-25	Downgradient	D-07	--
GWC-26	Downgradient	D-07	--
GWC-27	Downgradient	D-07	--
GWA-28	Upgradient	D-07	--
GWA-29	Upgradient	D-07	--
GWC-30	Downgradient	D-07	--
GWC-31	Downgradient	D-07	--
GWC-32	Downgradient	D-07	--
GWC-33	Downgradient	D-07	--
GWC-34	Downgradient	D-07	--
GWC-35	Downgradient	D-07	--

Notes:

1. D-XX = Detection Event Number.
2. V-XX = Verification monitoring event number for the given detection monitoring event.
3. -- = Not sampled

Table 3
Summary of Groundwater Monitoring Parameters

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

Table 4
Summary of Surface Water Analytical Data
March 2020

Substance		SWA-1	SWC-5	SWC-7	SWC-8
		3/19/2020	3/19/2020	3/19/2020	3/19/2020
Appendix III	Boron	<0.039	0.34	<0.039	<0.039
	Calcium	1.9	20	5.0	13
	Chloride	2.5	26	3.7	3.7
	Fluoride	0.029 J	0.041 J	<0.026	0.036 J
	pH (S.U.)	7.00	6.75	6.59	6.37
	Sulfate	2.2	15	5.4	8.3
	TDS	20	150	44	98
Required by GWMP	Antimony	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00031	<0.00031	<0.00031	0.00067 J
	Barium	0.017	0.077	0.032	0.042
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00017 J	0.0039	0.0030	0.015
	Copper	<0.00063	<0.00063	0.00083 J	0.00067 J
	Lead	0.00041 J	<0.00013	0.00053 J	0.00029 J
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	<0.00034	0.0026	0.00040 J	0.0013
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015
	Silver	<0.00018	<0.00018	<0.00018	<0.00018
	Thallium	<0.00015	<0.00015	<0.00015	<0.00015
	Vanadium	<0.00099	<0.00099	0.0019	0.0011
Zinc	0.0035 J	0.0039 J	0.0036 J	0.0050	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
3. 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.

Table 5
Summary of Groundwater Elevations
March 2020

Well ID	TOC Elevation (NAVD88)	Depth-to- Water (ft BTOC)	Groundwater Elevation (NAVD88)
GWA-1	778.00	12.10	765.90
GWA-2	816.00	36.60	779.40
GWA-3	789.98	19.26	770.72
GWA-4	779.39	18.94	760.45
GWC-5	755.60	12.54	743.06
GWC-6	749.78	14.45	735.33
GWC-7	730.97	7.52	723.45
GWC-8	723.30	8.15	715.15
GWC-9	712.56	8.14	704.42
GWC-10	709.47	11.54	697.93
GWC-11	700.96	6.40	694.56
GWC-12	724.22	26.71	697.51
GWC-13	693.75	5.26	688.49
GWC-14	692.81	8.61	684.20
GWC-15	687.57	5.15	682.42
GWC-16	690.12	9.28	680.84
GWC-17	704.34	18.71	685.63
GWC-18	700.20	11.95	688.25
GWC-19	700.86	5.90	694.96
GWC-20	705.63	3.25	702.38
GWC-21	721.07	9.50	711.57
GWC-22	744.14	20.19	723.95
GWC-23	773.47	31.75	741.72
GWC-24	789.98	35.34	754.64
GWC-25	812.11	46.10	766.01
GWC-26	785.42	22.10	763.32
GWC-27	814.07	35.05	779.02
GWA-28	849.03	23.73	825.30
GWA-29	834.70	37.20	797.50
GWC-30	791.03	21.07	769.96
GWC-31	797.54	26.90	770.64
GWC-32	785.22	23.33	761.89
GWC-33	760.03	13.25	746.78
GWC-34	735.09	3.90	731.19
GWC-35	730.89	7.69	723.20

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft NAVD88 indicates feet North American Vertical Datum of 1988.
3. Depths to water measured January 16, 2019.

Table 6
Horizontal Groundwater Flow Velocity Calculations
March 2020

Equation

$$v = \frac{K (i)}{P_e}$$

where: v = ground water velocity
K = hydraulic conductivity
i = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value			Source
K =	4.1E-04 1.16	cm/sec ft/day	See note 1.
i ₁ =	0.040	unitless	from GWA-4 to GWC-5 from GWA-1 to GWC-19 from GWA-2 to GWC-16
i ₂ =	0.049	unitless	
i ₃ =	0.038	unitless	
i =	0.042	unitless	Average (i ₁ , i ₂ , i ₃)
P _e =	0.10	unitless	See note 1.

Calculation

$$v = \frac{(1.16) (0.042)}{0.10}$$

$$v = 0.49 \text{ ft/day}$$

Notes

- (1) Plant Wansley Proposed Combustion By-Product Disposal Facility -
Site Acceptability Report

Table 7
Plant Wansley Landfill
Summary of Groundwater Analytical Data
March 2020

Substance		GWA-1	GWA-2	GWA-3	GWA-4	GWA-28	GWA-29	GWC-5	GWC-6
		3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020	3/16/2020	3/16/2020
Appendix III	Boron	0.041 J	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
	Calcium	0.85	3.3	11	26	2.9	4.1	33	12
	Chloride	2.0	3.9	43	10	1.4	1.1	9.5	9.7
	Fluoride	<0.026	<0.026	0.035 J	0.056 J	2.0	1.7	0.076 J	0.073 J
	pH	5.42	5.72	5.53	6.24	6.05	5.75	6.35	5.86
	Sulfate	1.7	2.5	16	12	3.0	6.0	29	30
	TDS	12	43	170	190	40	50	210	110
Required by GWMP	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
	Barium	0.010	0.010	0.079	0.14	0.0018 J	<0.0016	0.023	0.045
	Beryllium	0.00019 J	<0.00018	<0.00018	<0.00018	0.00051 J	0.0020 J	<0.00018	<0.00018
	Cadmium	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0017 J	<0.0015
	Cobalt	0.00017 J	0.00017 J	0.00081 J	0.0035	<0.00013	<0.00013	0.0049	0.012
	Copper	<0.00063	<0.00063	0.0025	<0.00063	<0.00063	0.0040	<0.00063	<0.00063
	Lead	<0.00013	<0.00013	0.0020	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	0.00067 J	0.0012	0.0019	0.0019	0.00069 J	0.0012	0.0049	0.0043
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Silver	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00099 J	<0.00018	<0.00018
	Thallium	0.00029 J	0.00018 J	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	0.00015 J
Vanadium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	0.0028	<0.00099	
Zinc	0.0036 J	<0.0032	0.015	0.052	0.017	0.034	0.0033 J	0.0032 J	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
6. -- indicates parameter not analyzed during resample event.

Table 7
Plant Wansley Landfill
Summary of Groundwater Analytical Data
March 2020

Substance		GWC-7	GWC-8	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14
		3/12/2020	3/12/2020	3/16/2020	3/17/2020	3/16/2020	3/18/2020	3/12/2020	3/17/2020
Appendix III	Boron	<0.039	<0.039	0.052 J	<0.039	<0.039	0.058 J	<0.039	1.2
	Calcium	47	19	8.9	15	3.1	46	4.3	40
	Chloride	13	2.9	2.3	3.7	0.81 J	22	1.3	120
	Fluoride	0.16	0.043 J	0.080 J	0.74	0.051 J	0.058 J	0.044 J	0.046 J
	pH	6.45	5.86	5.80	5.96	5.92	7.55	6.68	5.63
	Sulfate	52	18	11	16	0.44 J	25	4.5	12
	TDS	360	140	100	140	46	200	56	370
Required by GWMP	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00031	0.00049 J	0.00065 J	<0.00031	0.00090 J	0.00061 J	<0.00031	0.00031 J
	Barium	0.072	0.031	0.079	0.025	0.066	0.023	0.0026 J	0.23
	Beryllium	<0.00018	0.00061 J	0.00041 J	<0.00018	0.00039 J	0.00029 J	<0.00018	0.00059 J
	Cadmium	<0.00022	0.00032 J	<0.00022	<0.00022	0.00033 J	<0.00022	<0.00022	0.00036 J
	Chromium	<0.0015	<0.0015	0.0015 J	<0.0015	0.0019 J	<0.0015	<0.0015	<0.0015
	Cobalt	0.00066 J	0.0047	0.026	0.0038	0.0014 J	0.0012 J	<0.00013	0.16
	Copper	<0.00063	0.0014 J	0.00077 J	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063
	Lead	<0.00013	0.00028 J	0.00025 J	0.00015 J	0.00037 J	0.00020 J	<0.00013	<0.00013
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	0.0074	0.0019	0.0091	0.0013	0.00040 J	<0.00034	<0.00034	0.017
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0023 J
	Silver	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Thallium	<0.00015	0.00064 J	0.00044 J	<0.00015	0.00067 J	0.00037 J	<0.00015	0.00055 J
Vanadium	0.0019	<0.00099	<0.00099	<0.00099	0.0027	<0.00099	<0.00099	<0.00099	
Zinc	0.038	0.044	0.0094	0.0044 J	<0.0032	<0.0032	<0.0032	0.014	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
6. -- indicates parameter not analyzed during resample event.

Table 7
Plant Wansley Landfill
Summary of Groundwater Analytical Data
March 2020

Substance		GWC-15	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
		3/16/2020	5/4/2020	3/17/2020	3/17/2020	3/17/2020	3/18/2020	3/18/2020	3/18/2020
Appendix III	Boron	0.14	0.049 J	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
	Calcium	14	--	7.4	8.5	7.6	11	8.9	7.3
	Chloride	9.5	--	1.9	1.3	1.9	2.5	2.1	3.8
	Fluoride	0.070 J	--	<0.026	<0.026	<0.026	0.068 J	0.048 J	0.034 J
	pH	6.58	6.90	6.35	6.09	5.88	5.71	6.16	5.45
	Sulfate	2.3	--	0.84 J	1.2	1.0	1.1	0.72 J	<0.38
	TDS	100	--	93	84	90	64	78	49
Required by GWMP	Antimony	<0.00038	--	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00031	--	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
	Barium	0.012	--	0.019	0.017	0.039	0.13	0.031	0.056
	Beryllium	<0.00018	--	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<0.00022	--	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	--	0.0024	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	<0.00013	--	<0.00013	<0.00013	<0.00013	0.0016 J	<0.00013	0.00060 J
	Copper	<0.00063	--	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063
	Lead	0.00014 J	--	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Mercury	<0.00010	--	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	<0.00034	--	<0.00034	<0.00034	<0.00034	0.0011	<0.00034	0.00040 J
	Selenium	<0.0015	--	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Silver	<0.00018	--	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Thallium	0.00025 J	--	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015
	Vanadium	<0.00099	--	0.0044	0.0024	0.0015	0.0011	0.0016	<0.00099
Zinc	<0.0032	--	<0.0032	<0.0032	<0.0032	0.0078	<0.0032	0.0052	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
6. -- indicates parameter not analyzed during resample event.

Table 7
Plant Wansley Landfill
Summary of Groundwater Analytical Data
March 2020

Substance		GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31
		3/18/2020	3/18/2020	3/12/2020	3/12/2020	3/13/2020	3/12/2020	3/11/2020	3/17/2020
Appendix III	Boron	0.041 J	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039
	Calcium	11	4.0	0.42 J	8.9	2.3	0.94	4.1	10
	Chloride	1.8	2.1	4.2	6.9	3.1	1.3	1.5	1.6
	Fluoride	0.056 J	0.034 J	<0.026	0.032 J	0.026 J	0.044 J	0.066 J	1.2
	pH	6.85	6.06	5.33	6.40	5.52	5.36	6.04	6.15
	Sulfate	0.65 J	<0.38	2.3	9.7	1.8	2.0	3.3	7.3
	TDS	93	29	23	76	32	26	44	86
Required by GWMP	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	0.00058 J	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031
	Barium	0.025	0.0055 J	0.0082 J	0.030	0.035	0.0080 J	0.0081 J	0.0020 J
	Beryllium	0.00038 J	<0.00018	0.00020 J	<0.00018	0.00019 J	0.00038 J	<0.00018	0.00040 J
	Cadmium	0.00062 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00027 J	0.00022 J	0.0020 J	0.0066	0.00015 J	0.00090 J	<0.00013	0.00017 J
	Copper	<0.00063	<0.00063	0.0012 J	0.0022	0.00078 J	<0.00063	<0.00063	0.0014 J
	Lead	0.00067 J	0.00022 J	0.00013 J	0.00018 J	0.00013 J	<0.00013	<0.00013	0.00051 J
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	0.00042 J	0.00079 J	0.0025	0.0054	0.00097 J	<0.00034	<0.00034	0.0029
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Silver	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00018 J
	Thallium	0.00066 J	0.00024 J	<0.00015	<0.00015	<0.00015	0.00020 J	<0.00015	0.00017 J
Vanadium	0.0069	<0.00099	<0.00099	0.0011	<0.00099	<0.00099	0.00099 J	<0.00099	
Zinc	<0.0032	<0.0032	0.0080	0.0089	0.0087	0.0051	0.022	0.044	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
6. -- indicates parameter not analyzed during resample event.

Table 7
Plant Wansley Landfill
Summary of Groundwater Analytical Data
March 2020

Substance		GWC-32	GWC-33	GWC-34	GWC-35
		3/18/2020	3/12/2020	3/11/2020	3/11/2020
Appendix III	Boron	<0.039	<0.039	<0.039	<0.039
	Calcium	12	19	2.6	1.8
	Chloride	1.4	2.4	1.4	3.5
	Fluoride	2.8	2.1	0.18 J	0.035 J
	pH	6.13	6.37	5.93	5.62
	Sulfate	8.8	11	3.8	4.7
	TDS	120	120	36	42
Required by GWMP	Antimony	<0.00038	<0.00038	<0.00038	<0.00038
	Arsenic	<0.00031	<0.00031	<0.00031	<0.00031
	Barium	<0.0016	0.0067 J	0.012	0.020
	Beryllium	0.0014 J	0.00049 J	<0.00018	<0.00018
	Cadmium	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	0.0018 J	<0.0015	<0.0015
	Cobalt	0.0010 J	0.0013 J	<0.00013	0.00022 J
	Copper	<0.00063	<0.00063	<0.00063	0.00072 J
	Lead	<0.00013	0.00015 J	<0.00013	<0.00013
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010
	Nickel	0.0011	0.0012	0.00050 J	0.0010
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015
	Silver	<0.00018	<0.00018	<0.00018	<0.00018
	Thallium	<0.00015	0.00035 J	<0.00015	<0.00015
	Vanadium	<0.00099	<0.00099	<0.00099	<0.00099
Zinc	0.13	0.0061	0.0032 J	0.0034 J	

Notes:

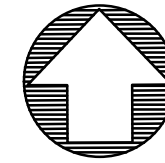
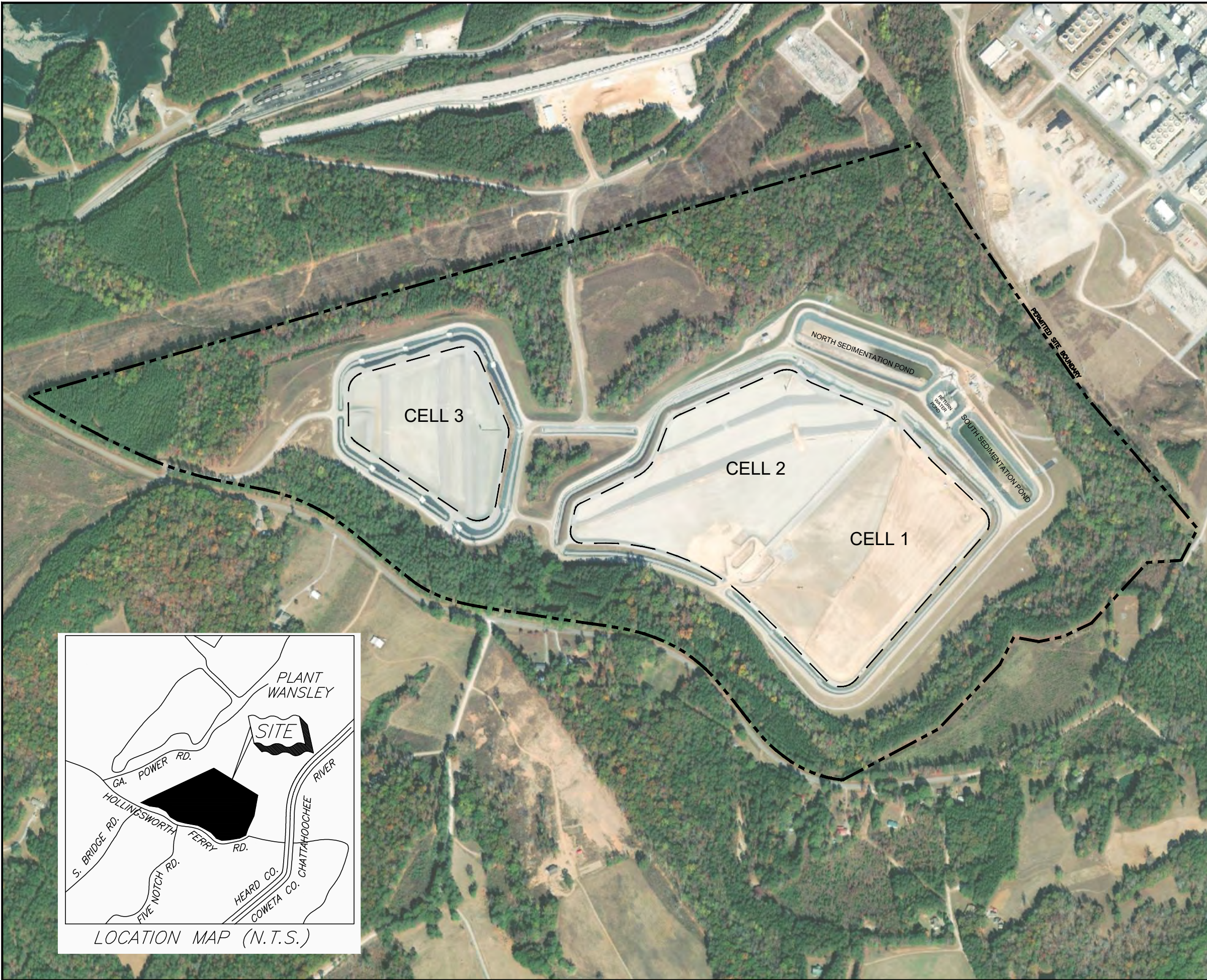
1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.
6. -- indicates parameter not analyzed during resample event.

Table 8
Statistical Method Summary

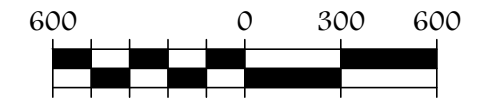
Plant Wansley CCR Landfill Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-1, GWA-2, GWA-3, GWA-4, GWA-28, and GWA-29
	Downgradient Wells	GWC-5, GWC-6, GWC-7, GWC-8, GWC-9, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, GWC-25, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-33, GWC-34, and GWC-35
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	Detection Monitoring	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell (boron, calcium, chloride, and fluoride) or intrawell (pH, sulfate, TDS, and EPD Permit Metals) statistical limits are on constituent specific basis, depending on the appropriateness of the method as determined by the Analysis of Variance

FIGURES

\\ATLANTA\Projects\Inland\GIS-Southern Company\110-Groundwater Consulting Services\Plant Wansley\2-Semiannual GMRs\2020\2020 Landfill\2020 1st GMR\Figures\Plant Wansley LF - 1st 2020 Pot Map.dwg 7/5/20 EVAN PERRY



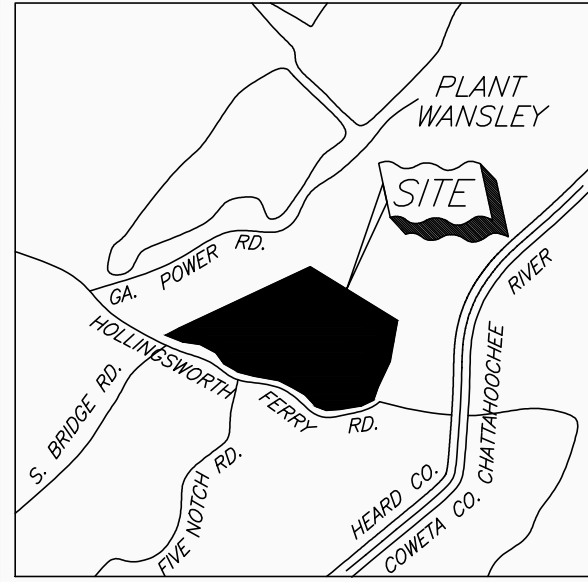
ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	APPROXIMATE LIMITS OF WASTE



LOCATION MAP (N.T.S.)

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY LANDFILL

SITE MAP

PROJECT NO. I054-110

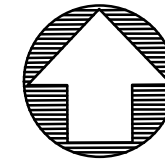
DATE: JULY 2020

DRAWN BY: MM

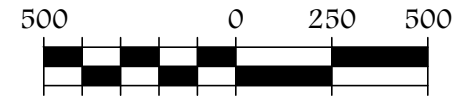
FIGURE:

CHECKED BY: EP

F:\Industrial\09-10-Grandwater Consulting Services\Plant Wansley\2020 Landfill\2020 1st GWA\Figures\Plant Wansley LF - Well Location Map.dwg 7/28/20 RYAN WALKER



ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	APPROXIMATE LIMITS OF WASTE
	MONITORING WELL
	SURFACE WATER MONITORING POINT

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY LANDFILL

WELL LOCATION MAP

PROJECT NO. I054-110

DATE: JUNE 2020

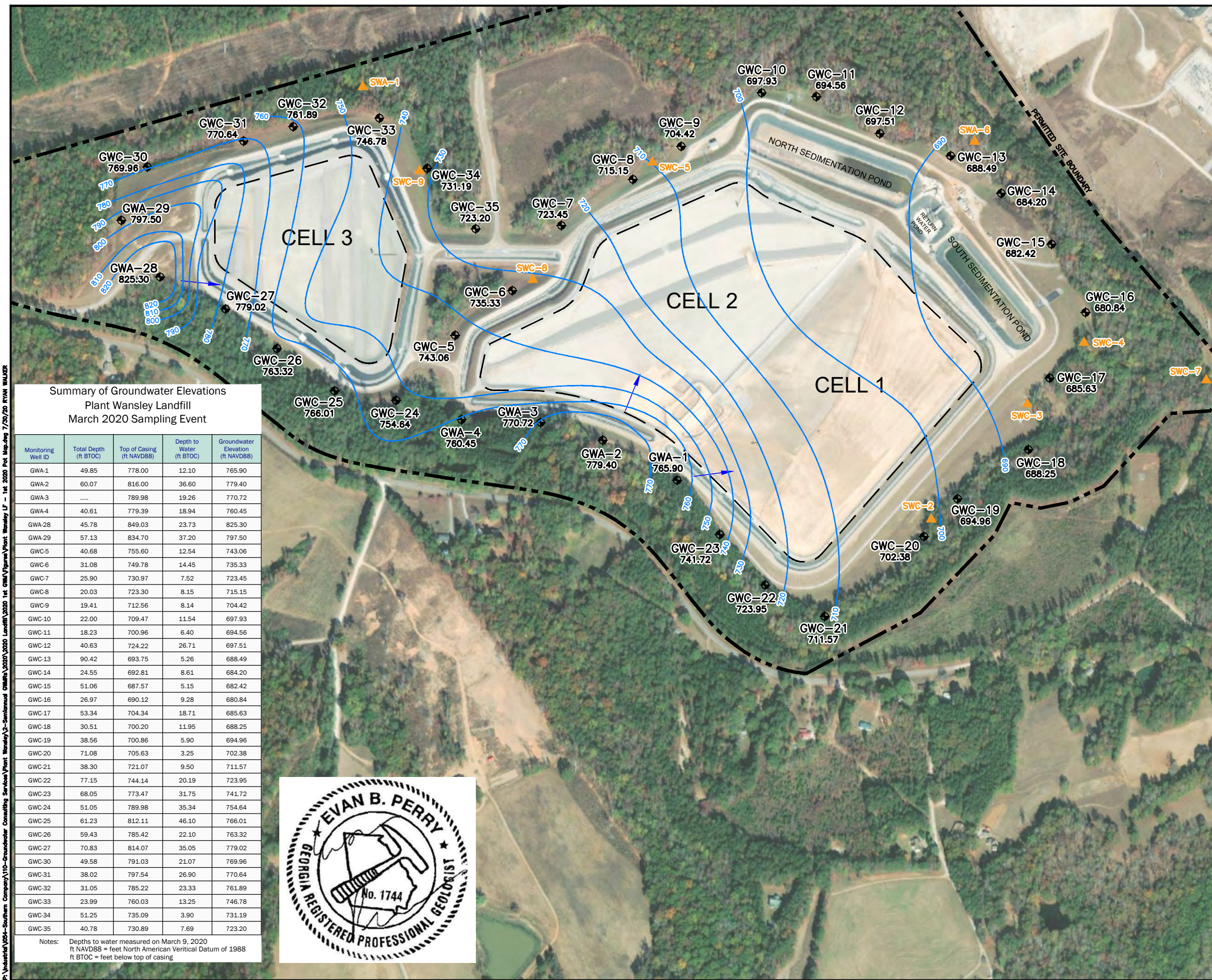
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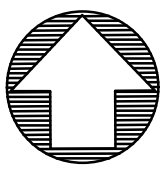
FIGURE:


CHECKED BY: EP



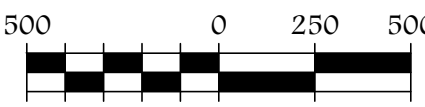
F:\Industrial\04-Southern Company\110-Grainier Consulting Services\2020 Landfill\2020 1st GWA\Figure\Plant Wansley LF - 1st 2020 Pot Map.dwg 7/30/20 RYAN WALKER







ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
- - - - -	APPROXIMATE PROPERTY BOUNDARY
- - - - -	APPROXIMATE LIMITS OF WASTE
◆ GWC-10 697.93	MONITORING WELL GROUNDWATER ELEVATION
▲ SWA-1	SURFACE WATER MONITORING POINT
700 — 700	GROUNDWATER ELEVATION CONTOUR
→	GROUNDWATER FLOW DIRECTION


**Summary of Groundwater Elevations
Plant Wansley Landfill
March 2020 Sampling Event**

Monitoring Well ID	Total Depth (ft. BTOC)	Top of Casing (ft. NAVD88)	Depth to Water (ft. BTOC)	Groundwater Elevation (ft. NAVD88)
GWA-1	49.85	778.00	12.10	765.90
GWA-2	60.07	816.00	36.60	779.40
GWA-3	789.98	19.26	770.72
GWA-4	40.61	779.39	18.94	760.45
GWA-28	45.78	849.03	23.73	825.30
GWA-29	57.13	834.70	37.20	797.50
GWC-5	40.68	755.60	12.54	743.06
GWC-6	31.08	749.78	14.45	735.33
GWC-7	25.90	730.97	7.52	723.45
GWC-8	20.03	723.30	8.15	715.15
GWC-9	19.41	712.56	8.14	704.42
GWC-10	22.00	709.47	11.54	697.93
GWC-11	18.23	700.96	6.40	694.56
GWC-12	40.63	724.22	26.71	697.51
GWC-13	90.42	693.75	5.26	688.49
GWC-14	24.55	692.81	8.61	684.20
GWC-15	51.06	687.57	5.15	682.42
GWC-16	26.97	690.12	9.28	680.84
GWC-17	53.34	704.34	18.71	685.63
GWC-18	30.51	700.20	11.95	688.25
GWC-19	38.56	700.86	5.90	694.96
GWC-20	71.08	705.63	3.25	702.38
GWC-21	38.30	721.07	9.50	711.57
GWC-22	77.15	744.14	20.19	723.95
GWC-23	68.05	773.47	31.75	741.72
GWC-24	51.05	789.98	35.34	754.64
GWC-25	61.23	812.11	46.10	766.01
GWC-26	59.43	785.42	22.10	763.32
GWC-27	70.83	814.07	35.05	779.02
GWC-30	49.58	791.03	21.07	769.96
GWC-31	38.02	797.54	26.90	770.64
GWC-32	31.05	785.22	23.33	761.89
GWC-33	23.99	760.03	13.25	746.78
GWC-34	51.25	735.09	3.90	731.19
GWC-35	40.78	730.89	7.69	723.20



Notes: Depths to water measured on March 9, 2020
ft. NAVD88 = feet North American Vertical Datum of 1988
ft. BTOC = feet below top of casing

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY LANDFILL

MARCH 2020 POTENTIOMETRIC
SURFACE MAP

PROJECT NO. I054-110

JULY 2020

<u>DRAWN BY:</u>	<u>FIGURE:</u>
RW	3
<u>CHECKED BY:</u>	
MM	

APPENDICES

APPENDIX A

**LABORATORY ANALYTICAL AND FIELD SAMPLING
REPORTS**

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-103501-1

Client Project/Site: CCR - Plant Wansley Landfill
Sampling Event: Wansley Landfill semi-annual (State+Fed)
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
5/15/2020 10:50:55 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Table of Contents

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Chain of Custody	102
Receipt Checklists	111



Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Job ID: 180-103501-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-103501-1

Comments

051520 Revised Report to add and correct field pH values at client request. This report replaces the report previously issued on 042020.

Receipt

The samples were received on 3/12/2020 9:00 AM, 3/16/2020 9:00 AM, 3/19/2020 8:30 AM and 3/20/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.7° C, 1.3° C, 1.3° C, 1.4° C, 1.4° C, 1.4° C, 1.5° C, 1.5° C, 2.9° C and 3.9° C.

GC Semi VOA

Methods 300.0, 9056A: The matrix spike duplicate (MSD) recoveries for analytical batch 180-311725 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) and matrix spike (MS) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Methods 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-311296 recovered above the upper control limit for selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 200.8, 6020, 6020A, 6020B: The ICSAB for batch 180-311877 was outside the acceptance limits for element: silicon. An elevated concentration in the sock solution is suspected. All other target QC passes for target analyte; therefore, the data has been reported.

Method 6020B: The ICVL recovered below the 6020B 80% recovery (actual 76%) for Aluminum. The analyte passes for 6020A with batch QC passing for target analyte; therefore, the data has been reported. (ICVL 180-312440/6)

Methods 6020B: The (ICVL 180-313035/6) recovered above the 6020B criteria of 5.0ppb for zinc (actual 6.3ppb). An increased concentration in the stock solution is suspected. The ICVL passes for 6020A method criteria with other batch QC passing for target analyte; therefore, the data has been reported.

Method 7470A: The LCS associated with 310887 was accidentally spiked with 2.25 mL rather than 1.25 mL. GWC-10 (180-103744-4), GWC-14 (180-103744-5), GWC-16 (180-103744-6), Dup-3 (180-103744-7), GWC-31 (180-103744-11), EB-3-3-17-20 (180-103744-12), FB-3-3-17-20 (180-103744-13), GWC-18 (180-103744-14) and GWC-17 (180-103744-15)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2540C: The following sample was analyzed outside of analytical holding time due to lab error : GWC-30 (180-103653-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20



Sample Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103501-1	Dup-1	Water	03/10/20 00:00	03/12/20 09:00	
180-103501-2	GWA-1	Ground Water	03/10/20 11:55	03/12/20 09:00	
180-103501-3	GWA-2	Ground Water	03/10/20 13:35	03/12/20 09:00	
180-103501-4	GWA-3	Ground Water	03/10/20 15:15	03/12/20 09:00	
180-103501-5	GWC-35	Ground Water	03/11/20 10:35	03/12/20 09:00	
180-103501-6	GWC-34	Ground Water	03/11/20 11:49	03/12/20 09:00	
180-103501-7	GWA-28	Ground Water	03/10/20 11:30	03/12/20 09:00	
180-103501-8	FB-1-3-10-20	Water	03/10/20 13:00	03/12/20 09:00	
180-103501-9	GWA-29	Ground Water	03/10/20 13:25	03/12/20 09:00	
180-103501-10	EB-1-3-10-20	Water	03/10/20 14:25	03/12/20 09:00	
180-103501-11	GWA-4	Ground Water	03/10/20 15:05	03/12/20 09:00	
180-103653-1	FB-2-3-12-20	Water	03/12/20 12:00	03/16/20 09:00	
180-103653-2	EB-2-3-12-20	Water	03/12/20 14:50	03/16/20 09:00	
180-103653-3	GWC-30	Ground Water	03/11/20 14:40	03/16/20 09:00	
180-103653-4	GWC-7	Ground Water	03/12/20 11:00	03/16/20 09:00	
180-103653-5	GWC-8	Ground Water	03/12/20 12:15	03/16/20 09:00	
180-103653-6	GWC-33	Ground Water	03/12/20 13:24	03/16/20 09:00	
180-103653-7	GWC-13	Ground Water	03/12/20 14:35	03/16/20 09:00	
180-103653-8	GWC-24	Ground Water	03/12/20 11:35	03/16/20 09:00	
180-103653-9	GWC-25	Ground Water	03/12/20 13:25	03/16/20 09:00	
180-103653-10	GWC-27	Ground Water	03/12/20 14:55	03/16/20 09:00	
180-103653-11	GWC-26	Ground Water	03/13/20 09:10	03/16/20 09:00	
180-103744-1	GWC-9	Ground Water	03/16/20 11:33	03/19/20 08:30	
180-103744-2	GWC-11	Ground Water	03/16/20 14:27	03/19/20 08:30	
180-103744-3	GWC-15	Ground Water	03/16/20 15:31	03/19/20 08:30	
180-103744-4	GWC-10	Ground Water	03/17/20 10:15	03/19/20 08:30	
180-103744-5	GWC-14	Ground Water	03/17/20 13:50	03/19/20 08:30	
180-103744-6	GWC-16	Ground Water	03/17/20 14:50	03/19/20 08:30	
180-103744-7	Dup-3	Water	03/17/20 00:00	03/19/20 08:30	
180-103744-8	Dup-2	Water	03/16/20 00:00	03/19/20 08:30	
180-103744-9	GWC-6	Ground Water	03/16/20 11:20	03/19/20 08:30	
180-103744-10	GWC-5	Ground Water	03/16/20 12:45	03/19/20 08:30	
180-103744-11	GWC-31	Ground Water	03/17/20 10:00	03/19/20 08:30	
180-103744-12	EB-3-3-17-20	Water	03/17/20 10:40	03/19/20 08:30	
180-103744-13	FB-3-3-17-20	Water	03/17/20 13:00	03/19/20 08:30	
180-103744-14	GWC-18	Ground Water	03/17/20 13:10	03/19/20 08:30	
180-103744-15	GWC-17	Ground Water	03/17/20 14:30	03/19/20 08:30	
180-103810-1	GWC-12	Ground Water	03/18/20 10:35	03/20/20 09:00	
180-103810-2	GWC-22	Ground Water	03/18/20 11:43	03/20/20 09:00	
180-103810-3	GWC-23	Ground Water	03/18/20 13:36	03/20/20 09:00	
180-103810-4	EB-4-3-18-20	Water	03/18/20 13:30	03/20/20 09:00	
180-103810-5	FB-4-3-18-20	Water	03/18/20 13:35	03/20/20 09:00	
180-103810-6	Dup-4	Water	03/18/20 00:00	03/20/20 09:00	
180-103810-7	GWC-19	Ground Water	03/18/20 12:40	03/20/20 09:00	
180-103810-8	GWC-21	Ground Water	03/18/20 14:50	03/20/20 09:00	
180-103810-9	GWC-32	Ground Water	03/18/20 11:00	03/20/20 09:00	
180-103810-10	GWC-20	Ground Water	03/18/20 14:10	03/20/20 09:00	
180-103810-11	SWC-8	Surface Water	03/19/20 10:13	03/20/20 09:00	
180-103810-12	SWC-5	Surface Water	03/19/20 10:25	03/20/20 09:00	
180-103810-13	SWC-7	Surface Water	03/19/20 10:51	03/20/20 09:00	
180-103810-14	SWA-1	Surface Water	03/19/20 11:14	03/20/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: Dup-1
Date Collected: 03/10/20 00:00
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 22:40	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 08:40	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 13:57	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311438	03/27/20 11:36	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:38	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	309880	03/13/20 10:25	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: GWA-1
Date Collected: 03/10/20 11:55
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 23:25	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 09:27	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:00	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311438	03/27/20 11:39	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:41	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 11:55	FDS	TAL PIT
	Instrument ID: NOEQUIP									

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-2

Date Collected: 03/10/20 13:35

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 23:41	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 09:43	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:02	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311877	04/01/20 21:52	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:42	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 13:35	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: GWA-3

Date Collected: 03/10/20 15:15

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 23:56	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 09:59	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:05	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 10:50	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:43	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 15:15	FDS	TAL PIT
	Instrument ID: NOEQUIP									

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-35

Date Collected: 03/11/20 10:35

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 00:11	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 10:15	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:07	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 10:53	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310482	03/19/20 14:38	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310647	03/20/20 19:06	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	309880	03/13/20 10:25	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/11/20 10:35	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: GWC-34

Date Collected: 03/11/20 11:49

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 00:27	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 10:31	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:15	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 10:55	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310482	03/19/20 14:38	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310647	03/20/20 19:09	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/11/20 11:49	FDS	TAL PIT
	Instrument ID: NOEQUIP									

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-28

Date Collected: 03/10/20 11:30

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 00:42	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total/NA	Analysis	300.0		1			310904	03/25/20 10:46	MJH	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:17	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 10:57	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:44	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 11:30	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: FB-1-3-10-20

Date Collected: 03/10/20 13:00

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 01:28	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:20	WTR	TAL PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 11:00	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:45	NAM	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: GWA-29

Date Collected: 03/10/20 13:25

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 01:43	MJH	TAL PIT
	Instrument ID: CHIC2100A									

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-29

Date Collected: 03/10/20 13:25

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:22	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 11:02	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:46	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 13:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-3-10-20

Date Collected: 03/10/20 14:25

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 01:58	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:25	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 11:05	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:47	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWA-4

Date Collected: 03/10/20 15:05

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/24/20 02:14	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311296	03/26/20 14:27	WTR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	310852	03/16/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			311443	03/28/20 11:07	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-4

Date Collected: 03/10/20 15:05

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	310197	03/17/20 11:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310256	03/17/20 17:48	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310198	03/17/20 12:07	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 15:05	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: FB-2-3-12-20

Date Collected: 03/12/20 12:00

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			310904	03/24/20 14:30	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311959	04/03/20 00:20	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310647	03/20/20 20:12	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: EB-2-3-12-20

Date Collected: 03/12/20 14:50

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			310904	03/24/20 13:42	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311959	04/03/20 00:23	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			310647	03/20/20 20:13	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
		Instrument ID: NOEQUIP								

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-30

Date Collected: 03/11/20 14:40

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			310904	03/24/20 13:27	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 00:27	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:32	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/11/20 14:40	FDS	TAL PIT

Client Sample ID: GWC-7

Date Collected: 03/12/20 11:00

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			310904	03/24/20 12:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 00:30	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:14	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 11:00	FDS	TAL PIT

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311429	03/28/20 20:26	SAC	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311491	03/30/20 07:31	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 00:55	WTR	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:15	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310448	03/19/20 08:43	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 12:15	FDS	TAL PIT

Client Sample ID: GWC-33

Date Collected: 03/12/20 13:24

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/27/20 23:40	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 00:58	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:16	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 13:24	FDS	TAL PIT

Client Sample ID: GWC-13

Date Collected: 03/12/20 14:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/27/20 23:56	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 01:02	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:17	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 14:35	FDS	TAL PIT

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-24

Date Collected: 03/12/20 11:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/28/20 00:43	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 01:05	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:18	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 11:35	FDS	TAL PIT

Client Sample ID: GWC-25

Date Collected: 03/12/20 13:25

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/28/20 00:59	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 01:09	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:21	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310447	03/19/20 08:41	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 13:25	FDS	TAL PIT

Client Sample ID: GWC-27

Date Collected: 03/12/20 14:55

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/28/20 01:14	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 01:12	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:22	NAM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-27

Date Collected: 03/12/20 14:55

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310448	03/19/20 08:43	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/12/20 14:55	FDS	TAL PIT

Client Sample ID: GWC-26

Date Collected: 03/13/20 09:10

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311327	03/28/20 01:30	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311030	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 01:23	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310609	03/20/20 16:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			310647	03/20/20 20:23	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310448	03/19/20 08:43	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/13/20 09:10	FDS	TAL PIT

Client Sample ID: GWC-9

Date Collected: 03/16/20 11:33

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311618	04/01/20 02:02	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 15:22	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:35	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 11:33	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-11

Date Collected: 03/16/20 14:27

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 17:38	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 15:47	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:36	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 14:27	FDS	TAL PIT

Client Sample ID: GWC-15

Date Collected: 03/16/20 15:31

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 18:26	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 15:50	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:37	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 15:31	FDS	TAL PIT

Client Sample ID: GWC-10

Date Collected: 03/17/20 10:15

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 18:42	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 15:54	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:55	NAM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-10

Date Collected: 03/17/20 10:15

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310668	03/21/20 08:55	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 10:15	FDS	TAL PIT

Client Sample ID: GWC-14

Date Collected: 03/17/20 13:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 18:58	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 15:57	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:56	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 13:50	FDS	TAL PIT

Client Sample ID: GWC-16

Date Collected: 03/17/20 14:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 19:13	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:01	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:57	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 14:50	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: Dup-3
Date Collected: 03/17/20 00:00
Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 19:29	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:04	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:00	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT

Client Sample ID: Dup-2
Date Collected: 03/16/20 00:00
Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 20:17	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:07	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:40	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT

Client Sample ID: GWC-6
Date Collected: 03/16/20 11:20
Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 20:32	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:18	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 13:42	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:41	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-6

Date Collected: 03/16/20 11:20

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 11:20	FDS	TAL PIT

Client Sample ID: GWC-5

Date Collected: 03/16/20 12:45

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 20:48	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:21	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 13:46	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:42	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 12:45	FDS	TAL PIT

Client Sample ID: GWC-31

Date Collected: 03/17/20 10:00

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 21:04	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:25	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 13:49	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:01	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 10:00	FDS	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: EB-3-3-17-20

Date Collected: 03/17/20 10:40

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 21:20	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:28	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 13:52	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:02	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT

Client Sample ID: FB-3-3-17-20

Date Collected: 03/17/20 13:00

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 21:36	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:32	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 13:56	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:03	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT

Client Sample ID: GWC-18

Date Collected: 03/17/20 13:10

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			311725	04/01/20 21:52	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312557	04/09/20 16:35	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 14:06	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-18

Date Collected: 03/17/20 13:10

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311000	03/24/20 18:04	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 13:10	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-17

Date Collected: 03/17/20 14:30

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			311725	04/01/20 22:07	SAC	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312557	04/09/20 16:39	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311072	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 14:09	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311000	03/24/20 18:05	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 14:30	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-12

Date Collected: 03/18/20 10:35

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312144	04/07/20 02:49	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312440	04/08/20 19:58	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:59	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-12

Date Collected: 03/18/20 10:35

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			310781	03/18/20 10:35	FDS	TAL PIT

Client Sample ID: GWC-22

Date Collected: 03/18/20 11:43

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/06/20 22:42	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:16	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 20:00	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 11:43	FDS	TAL PIT

Client Sample ID: GWC-23

Date Collected: 03/18/20 13:36

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1	1 mL	1.0 mL	312143	04/06/20 23:28	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:19	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 20:01	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 13:36	FDS	TAL PIT

Client Sample ID: EB-4-3-18-20

Date Collected: 03/18/20 13:30

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/06/20 22:11	MJH	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: EB-4-3-18-20

Lab Sample ID: 180-103810-4

Date Collected: 03/18/20 13:30

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312440	04/08/20 20:23	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 20:03	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: FB-4-3-18-20

Lab Sample ID: 180-103810-5

Date Collected: 03/18/20 13:35

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312143	04/06/20 22:26	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312440	04/08/20 20:26	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:01	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311711	03/31/20 17:36	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: Dup-4

Lab Sample ID: 180-103810-6

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312143	04/07/20 01:33	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312440	04/08/20 20:37	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:01	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311711	03/31/20 17:37	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-19

Date Collected: 03/18/20 12:40

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 01:48	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:40	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:01	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311711	03/31/20 17:38	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 12:40	FDS	TAL PIT

Client Sample ID: GWC-21

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 02:04	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:44	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:01	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311711	03/31/20 17:39	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310714	03/22/20 06:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:50	FDS	TAL PIT

Client Sample ID: GWC-32

Date Collected: 03/18/20 11:00

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 02:20	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:47	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:01	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311711	03/31/20 17:40	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-32

Date Collected: 03/18/20 11:00

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 11:00	FDS	TAL PIT

Client Sample ID: GWC-20

Date Collected: 03/18/20 14:10

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 03:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:51	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311413	03/27/20 20:04	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311711	03/31/20 17:41	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:10	FDS	TAL PIT

Client Sample ID: SWC-8

Date Collected: 03/19/20 10:13

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-11

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/07/20 22:26	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:54	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311684	03/31/20 16:23	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311830	04/01/20 16:15	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/19/20 10:13	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: SWC-5

Date Collected: 03/19/20 10:25

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-12

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/07/20 22:41	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 20:58	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311684	03/31/20 16:23	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311830	04/01/20 16:18	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310935	03/24/20 08:06	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/19/20 10:25	FDS	TAL PIT

Client Sample ID: SWC-7

Date Collected: 03/19/20 10:51

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-13

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/07/20 22:57	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 21:01	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311684	03/31/20 16:23	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311830	04/01/20 16:19	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/19/20 10:51	FDS	TAL PIT

Client Sample ID: SWA-1

Date Collected: 03/19/20 11:14

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-14

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/07/20 23:45	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311074	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312440	04/08/20 21:05	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311684	03/31/20 16:23	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311830	04/01/20 16:20	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: SWA-1

Date Collected: 03/19/20 11:14

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-14

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling		1			310781	03/19/20 11:14	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

SAC = Shawn Clemente

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: Dup-1
Date Collected: 03/10/20 00:00
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/23/20 22:40	1
Chloride	4.1		1.0	0.32	mg/L			03/25/20 08:40	1
Sulfate	2.8		1.0	0.38	mg/L			03/23/20 22:40	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 13:57	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 13:57	1
Barium	0.010		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 13:57	1
Beryllium	0.00039 J		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 13:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 13:57	1
Cobalt	0.00014 J		0.0025	0.00013	mg/L		03/16/20 11:00	03/27/20 11:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 13:57	1
Copper	0.0012 J		0.0020	0.00063	mg/L		03/16/20 11:00	03/27/20 11:36	1
Nickel	0.0013		0.0010	0.00034	mg/L		03/16/20 11:00	03/27/20 11:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 13:57	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 13:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/27/20 11:36	1
Thallium	0.00051 J		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 13:57	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 13:57	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/16/20 11:00	03/27/20 11:36	1
Boron	0.068 J		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 13:57	1
Calcium	3.3		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 13:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	45		10	10	mg/L			03/13/20 10:25	1

Client Sample ID: GWA-1
Date Collected: 03/10/20 11:55
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-2
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/23/20 23:25	1
Chloride	2.0		1.0	0.32	mg/L			03/25/20 09:27	1
Sulfate	1.7		1.0	0.38	mg/L			03/23/20 23:25	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:00	1
Barium	0.010		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:00	1
Beryllium	0.00019 J		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:00	1
Cobalt	0.00017 J		0.0025	0.00013	mg/L		03/16/20 11:00	03/27/20 11:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-1
Date Collected: 03/10/20 11:55
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-2
Matrix: Ground Water

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/27/20 11:39	1
Nickel	0.00067	J	0.0010	0.00034	mg/L		03/16/20 11:00	03/27/20 11:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:00	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/27/20 11:39	1
Thallium	0.00029	J	0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:00	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:00	1
Zinc	0.0036	J	0.0050	0.0032	mg/L		03/16/20 11:00	03/27/20 11:39	1
Boron	0.041	J	0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:00	1
Calcium	0.85		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		10	10	mg/L			03/17/20 12:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.42				SU			03/10/20 11:55	1

Client Sample ID: GWA-2
Date Collected: 03/10/20 13:35
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-3
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/23/20 23:41	1
Chloride	3.9		1.0	0.32	mg/L			03/25/20 09:43	1
Sulfate	2.5		1.0	0.38	mg/L			03/23/20 23:41	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:02	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:02	1
Barium	0.010		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:02	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:02	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		03/16/20 11:00	04/01/20 21:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:02	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	04/01/20 21:52	1
Nickel	0.0012		0.0010	0.00034	mg/L		03/16/20 11:00	04/01/20 21:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:02	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	04/01/20 21:52	1
Thallium	0.00018	J	0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:02	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:02	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/16/20 11:00	04/01/20 21:52	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-2

Date Collected: 03/10/20 13:35

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-3

Matrix: Ground Water

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.3		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	43		10	10	mg/L			03/17/20 12:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.72				SU			03/10/20 13:35	1

Client Sample ID: GWA-3

Date Collected: 03/10/20 15:15

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-4

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.035	J	0.20	0.026	mg/L			03/23/20 23:56	1
Chloride	43		1.0	0.32	mg/L			03/25/20 09:59	1
Sulfate	16		1.0	0.38	mg/L			03/23/20 23:56	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:05	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:05	1
Barium	0.079		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:05	1
Cobalt	0.00081	J	0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 10:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:05	1
Copper	0.0025		0.0020	0.00063	mg/L		03/16/20 11:00	03/28/20 10:50	1
Nickel	0.0019		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 10:50	1
Lead	0.0020		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/28/20 10:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:05	1
Zinc	0.015		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 10:50	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:05	1
Calcium	11		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			03/17/20 12:07	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-3
Date Collected: 03/10/20 15:15
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-4
Matrix: Ground Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.53				SU			03/10/20 15:15	1

Client Sample ID: GWC-35
Date Collected: 03/11/20 10:35
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-5
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.035	J	0.20	0.026	mg/L			03/24/20 00:11	1
Chloride	3.5		1.0	0.32	mg/L			03/25/20 10:15	1
Sulfate	4.7		1.0	0.38	mg/L			03/24/20 00:11	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:07	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:07	1
Barium	0.020		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:07	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 10:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:07	1
Copper	0.00072	J	0.0020	0.00063	mg/L		03/16/20 11:00	03/28/20 10:53	1
Nickel	0.0010		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 10:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:07	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/28/20 10:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:07	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:07	1
Zinc	0.0034	J	0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 10:53	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:07	1
Calcium	1.8		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/19/20 14:38	03/20/20 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			03/13/20 10:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.62				SU			03/11/20 10:35	1

Client Sample ID: GWC-34
Date Collected: 03/11/20 11:49
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-6
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.18	J	0.20	0.026	mg/L			03/24/20 00:27	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-34

Lab Sample ID: 180-103501-6

Date Collected: 03/11/20 11:49

Matrix: Ground Water

Date Received: 03/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			03/25/20 10:31	1
Sulfate	3.8		1.0	0.38	mg/L			03/24/20 00:27	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:15	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:15	1
Barium	0.012		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 10:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:15	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:15	1
Nickel	0.00050	J	0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 10:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:15	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:15	1
Zinc	0.0032	J	0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 10:55	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:15	1
Calcium	2.6		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/19/20 14:38	03/20/20 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		10	10	mg/L			03/17/20 12:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.93				SU			03/11/20 11:49	1

Client Sample ID: GWA-28

Lab Sample ID: 180-103501-7

Date Collected: 03/10/20 11:30

Matrix: Ground Water

Date Received: 03/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.0		0.20	0.026	mg/L			03/24/20 00:42	1
Chloride	1.4		1.0	0.32	mg/L			03/25/20 10:46	1
Sulfate	3.0		1.0	0.38	mg/L			03/24/20 00:42	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:17	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:17	1
Barium	0.0018	J	0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:17	1
Beryllium	0.00051	J	0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:17	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-28

Lab Sample ID: 180-103501-7

Date Collected: 03/10/20 11:30

Matrix: Ground Water

Date Received: 03/12/20 09:00

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:17	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 10:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:17	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:17	1
Nickel	0.00069	J	0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 10:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:17	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:17	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:17	1
Zinc	0.017		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 10:57	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:17	1
Calcium	2.9		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		10	10	mg/L			03/17/20 12:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	6.05				SU			03/10/20 11:30	1

Client Sample ID: FB-1-3-10-20

Lab Sample ID: 180-103501-8

Date Collected: 03/10/20 13:00

Matrix: Water

Date Received: 03/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/24/20 01:28	1
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 01:28	1
Sulfate	0.56	J	1.0	0.38	mg/L			03/24/20 01:28	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:20	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:20	1
Barium	<0.0016		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 11:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:20	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:20	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 11:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:20	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:20	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: FB-1-3-10-20

Lab Sample ID: 180-103501-8

Date Collected: 03/10/20 13:00

Matrix: Water

Date Received: 03/12/20 09:00

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:20	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 11:00	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:20	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/17/20 12:07	1

Client Sample ID: GWA-29

Lab Sample ID: 180-103501-9

Date Collected: 03/10/20 13:25

Matrix: Ground Water

Date Received: 03/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.7		0.20	0.026	mg/L			03/24/20 01:43	1
Chloride	1.1		1.0	0.32	mg/L			03/24/20 01:43	1
Sulfate	6.0		1.0	0.38	mg/L			03/24/20 01:43	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.00099	J	0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:22	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:22	1
Barium	<0.0016		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:22	1
Beryllium	0.0020	J	0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 11:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:22	1
Copper	0.0040		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:22	1
Nickel	0.0012		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 11:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:22	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:22	1
Zinc	0.034		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 11:02	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:22	1
Calcium	4.1		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		10	10	mg/L			03/17/20 12:07	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-29

Date Collected: 03/10/20 13:25

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-9

Matrix: Ground Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	5.75				SU			03/10/20 13:25	1

Client Sample ID: EB-1-3-10-20

Date Collected: 03/10/20 14:25

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-10

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.028	J	0.20	0.026	mg/L			03/24/20 01:58	1
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 01:58	1
Sulfate	1.2		1.0	0.38	mg/L			03/24/20 01:58	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:25	1
Barium	<0.0016		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 11:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:25	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:25	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 11:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:25	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:25	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 11:05	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:25	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/17/20 12:07	1

Client Sample ID: GWA-4

Date Collected: 03/10/20 15:05

Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-11

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.056	J	0.20	0.026	mg/L			03/24/20 02:14	1
Chloride	10		1.0	0.32	mg/L			03/24/20 02:14	1
Sulfate	12		1.0	0.38	mg/L			03/24/20 02:14	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWA-4
Date Collected: 03/10/20 15:05
Date Received: 03/12/20 09:00

Lab Sample ID: 180-103501-11
Matrix: Ground Water

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 14:27	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 14:27	1
Barium	0.14		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 14:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 14:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 14:27	1
Cobalt	0.0035		0.0025	0.00013	mg/L		03/16/20 11:00	03/28/20 11:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 14:27	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/26/20 14:27	1
Nickel	0.0019		0.0010	0.00034	mg/L		03/16/20 11:00	03/28/20 11:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 14:27	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 14:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/26/20 14:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 14:27	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 14:27	1
Zinc	0.052		0.0050	0.0032	mg/L		03/16/20 11:00	03/28/20 11:07	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 14:27	1
Calcium	26		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 14:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			03/17/20 12:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	6.24				SU			03/10/20 15:05	1

Client Sample ID: FB-2-3-12-20

Date Collected: 03/12/20 12:00
Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-1
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 14:30	1
Fluoride	<0.026		0.10	0.026	mg/L			03/24/20 14:30	1
Sulfate	2.0		1.0	0.38	mg/L			03/24/20 14:30	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:20	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:20	1
Beryllium	0.00038	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:20	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:20	1
Cadmium	0.00023	J	0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:20	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:20	1
Cobalt	0.00018	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:20	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:20	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: FB-2-3-12-20

Lab Sample ID: 180-103653-1

Date Collected: 03/12/20 12:00

Matrix: Water

Date Received: 03/16/20 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:20	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:20	1
Lead	0.00019	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:20	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:20	1
Thallium	0.00042	J	0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:20	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:20	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/19/20 08:41	1

Client Sample ID: EB-2-3-12-20

Lab Sample ID: 180-103653-2

Date Collected: 03/12/20 14:50

Matrix: Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 13:42	1
Fluoride	<0.026		0.10	0.026	mg/L			03/24/20 13:42	1
Sulfate	1.8		1.0	0.38	mg/L			03/24/20 13:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:23	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:23	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:23	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:23	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:23	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:23	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:23	1
Thallium	0.00015	J	0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:23	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:23	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: EB-2-3-12-20

Lab Sample ID: 180-103653-2

Date Collected: 03/12/20 14:50

Matrix: Water

Date Received: 03/16/20 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/19/20 08:41	1

Client Sample ID: GWC-30

Lab Sample ID: 180-103653-3

Date Collected: 03/11/20 14:40

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			03/24/20 13:27	1
Fluoride	0.066	J	0.10	0.026	mg/L			03/24/20 13:27	1
Sulfate	3.3		1.0	0.38	mg/L			03/24/20 13:27	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:27	1
Barium	0.0081	J	0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:27	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:27	1
Calcium	4.1		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:27	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:27	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:27	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:27	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:27	1
Vanadium	0.00099	J	0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:27	1
Zinc	0.022		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44	H	10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.04				SU			03/11/20 14:40	1

Client Sample ID: GWC-7

Lab Sample ID: 180-103653-4

Date Collected: 03/12/20 11:00

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.32	mg/L			03/24/20 12:55	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-7

Date Collected: 03/12/20 11:00

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-4

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.16		0.10	0.026	mg/L			03/24/20 12:55	1
Sulfate	52		1.0	0.38	mg/L			03/24/20 12:55	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:30	1
Barium	0.072		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:30	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:30	1
Calcium	47		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:30	1
Cobalt	0.00066	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:30	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:30	1
Nickel	0.0074		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:30	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:30	1
Vanadium	0.0019		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:30	1
Zinc	0.038		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:30	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	360		10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.45				SU			03/12/20 11:00	1

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-5

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.32	mg/L			03/30/20 07:31	1
Fluoride	0.043	J	0.10	0.026	mg/L			03/28/20 20:26	1
Sulfate	18		1.0	0.38	mg/L			03/30/20 07:31	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00049	J	0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:55	1
Barium	0.031		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:55	1
Beryllium	0.00061	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:55	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-5

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00032	J	0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:55	1
Calcium	19		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:55	1
Cobalt	0.0047		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:55	1
Copper	0.0014	J	0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:55	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:55	1
Nickel	0.0019		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:55	1
Lead	0.00028	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:55	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:55	1
Thallium	0.00064	J	0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:55	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:55	1
Zinc	0.044		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:55	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			03/19/20 08:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/12/20 12:15	1

Client Sample ID: GWC-33

Date Collected: 03/12/20 13:24

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-6

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.32	mg/L			03/27/20 23:40	1
Fluoride	2.1		0.10	0.026	mg/L			03/27/20 23:40	1
Sulfate	11		1.0	0.38	mg/L			03/27/20 23:40	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:58	1
Barium	0.0067	J	0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:58	1
Beryllium	0.00049	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:58	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:58	1
Calcium	19		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:58	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:58	1
Cobalt	0.0013	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:58	1
Nickel	0.0012		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:58	1
Lead	0.00015	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-33

Lab Sample ID: 180-103653-6

Date Collected: 03/12/20 13:24

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:58	1
Thallium	0.00035	J	0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:58	1
Zinc	0.0061		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.37				SU			03/12/20 13:24	1

Client Sample ID: GWC-13

Lab Sample ID: 180-103653-7

Date Collected: 03/12/20 14:35

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/27/20 23:56	1
Fluoride	0.044	J	0.10	0.026	mg/L			03/27/20 23:56	1
Sulfate	4.5		1.0	0.38	mg/L			03/27/20 23:56	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:02	1
Barium	0.0026	J	0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:02	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:02	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:02	1
Calcium	4.3		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:02	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:02	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 01:02	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 01:02	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 01:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:02	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 01:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:02	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:02	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 01:02	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 01:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-13

Date Collected: 03/12/20 14:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-7

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			03/12/20 14:35	1

Client Sample ID: GWC-24

Date Collected: 03/12/20 11:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-8

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.32	mg/L			03/28/20 00:43	1
Fluoride	<0.026		0.10	0.026	mg/L			03/28/20 00:43	1
Sulfate	2.3		1.0	0.38	mg/L			03/28/20 00:43	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:05	1
Barium	0.0082	J	0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:05	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:05	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:05	1
Calcium	0.42	J	0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:05	1
Cobalt	0.0020	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:05	1
Copper	0.0012	J	0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 01:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 01:05	1
Nickel	0.0025		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 01:05	1
Lead	0.00013	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 01:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 01:05	1
Zinc	0.0080		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 01:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	23		10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.33				SU			03/12/20 11:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-25

Lab Sample ID: 180-103653-9

Date Collected: 03/12/20 13:25

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9		1.0	0.32	mg/L			03/28/20 00:59	1
Fluoride	0.032	J	0.10	0.026	mg/L			03/28/20 00:59	1
Sulfate	9.7		1.0	0.38	mg/L			03/28/20 00:59	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:09	1
Barium	0.030		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:09	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:09	1
Calcium	8.9		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:09	1
Cobalt	0.0066		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:09	1
Copper	0.0022		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 01:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 01:09	1
Nickel	0.0054		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 01:09	1
Lead	0.00018	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:09	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 01:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:09	1
Vanadium	0.0011		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 01:09	1
Zinc	0.0089		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 01:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			03/19/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.40				SU			03/12/20 13:25	1

Client Sample ID: GWC-27

Lab Sample ID: 180-103653-10

Date Collected: 03/12/20 14:55

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/28/20 01:14	1
Fluoride	0.044	J	0.10	0.026	mg/L			03/28/20 01:14	1
Sulfate	2.0		1.0	0.38	mg/L			03/28/20 01:14	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:12	1
Barium	0.0080	J	0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:12	1
Beryllium	0.00038	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-27

Lab Sample ID: 180-103653-10

Date Collected: 03/12/20 14:55

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:12	1
Calcium	0.94		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:12	1
Cobalt	0.00090	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:12	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 01:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 01:12	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 01:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:12	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 01:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:12	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:12	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 01:12	1
Zinc	0.0051		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 01:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		10	10	mg/L			03/19/20 08:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			03/12/20 14:55	1

Client Sample ID: GWC-26

Lab Sample ID: 180-103653-11

Date Collected: 03/13/20 09:10

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.32	mg/L			03/28/20 01:30	1
Fluoride	0.026	J	0.10	0.026	mg/L			03/28/20 01:30	1
Sulfate	1.8		1.0	0.38	mg/L			03/28/20 01:30	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:23	1
Barium	0.035		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:23	1
Beryllium	0.00019	J	0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:23	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:23	1
Calcium	2.3		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:23	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:23	1
Copper	0.00078	J	0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 01:23	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 01:23	1
Nickel	0.00097	J	0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 01:23	1
Lead	0.00013	J	0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:23	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-26

Date Collected: 03/13/20 09:10

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103653-11

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 01:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:23	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 01:23	1
Zinc	0.0087		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 01:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		10	10	mg/L			03/19/20 08:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.52				SU			03/13/20 09:10	1

Client Sample ID: GWC-9

Date Collected: 03/16/20 11:33

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-1

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.32	mg/L			04/01/20 02:02	1
Fluoride	0.080	J	0.10	0.026	mg/L			04/01/20 02:02	1
Sulfate	11		1.0	0.38	mg/L			04/01/20 02:02	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00065	J ^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:22	1
Barium	0.079		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:22	1
Beryllium	0.00041	J ^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:22	1
Boron	0.052	J	0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:22	1
Calcium	8.9		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:22	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:22	1
Cobalt	0.026		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:22	1
Copper	0.00077	J	0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:22	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:22	1
Nickel	0.0091		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:22	1
Lead	0.00025	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:22	1
Thallium	0.00044	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:22	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:22	1
Zinc	0.0094		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-9

Date Collected: 03/16/20 11:33

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-1

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/21/20 07:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.80				SU			03/16/20 11:33	1

Client Sample ID: GWC-11

Date Collected: 03/16/20 14:27

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-2

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.81	J	1.0	0.32	mg/L			04/01/20 17:38	1
Fluoride	0.051	J F1	0.10	0.026	mg/L			04/01/20 17:38	1
Sulfate	0.44	J	1.0	0.38	mg/L			04/01/20 17:38	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00090	J ^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:47	1
Barium	0.066		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:47	1
Beryllium	0.00039	J ^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:47	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:47	1
Cadmium	0.00033	J	0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:47	1
Calcium	3.1		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:47	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:47	1
Cobalt	0.0014	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:47	1
Nickel	0.00040	J	0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:47	1
Lead	0.00037	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:47	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:47	1
Thallium	0.00067	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:47	1
Vanadium	0.0027		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:47	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		10	10	mg/L			03/21/20 07:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.92				SU			03/16/20 14:27	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-15

Lab Sample ID: 180-103744-3

Date Collected: 03/16/20 15:31

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.32	mg/L			04/01/20 18:26	1
Fluoride	0.070	J	0.10	0.026	mg/L			04/01/20 18:26	1
Sulfate	2.3		1.0	0.38	mg/L			04/01/20 18:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:50	1
Barium	0.012		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:50	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:50	1
Boron	0.14		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:50	1
Calcium	14		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:50	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:50	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:50	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:50	1
Lead	0.00014	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:50	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:50	1
Thallium	0.00025	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:50	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:50	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:50	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/21/20 07:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.58				SU			03/16/20 15:31	1

Client Sample ID: GWC-10

Lab Sample ID: 180-103744-4

Date Collected: 03/17/20 10:15

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/01/20 18:42	1
Fluoride	0.74		0.10	0.026	mg/L			04/01/20 18:42	1
Sulfate	16		1.0	0.38	mg/L			04/01/20 18:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:54	1
Barium	0.025		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:54	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-10

Lab Sample ID: 180-103744-4

Date Collected: 03/17/20 10:15

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:54	1
Calcium	15		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:54	1
Cobalt	0.0038		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:54	1
Nickel	0.0013		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:54	1
Lead	0.00015 J		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:54	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:54	1
Zinc	0.0044 J		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			03/21/20 08:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.96				SU			03/17/20 10:15	1

Client Sample ID: GWC-14

Lab Sample ID: 180-103744-5

Date Collected: 03/17/20 13:50

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.32	mg/L			04/01/20 18:58	1
Fluoride	0.046 J		0.10	0.026	mg/L			04/01/20 18:58	1
Sulfate	12		1.0	0.38	mg/L			04/01/20 18:58	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00031 J ^		0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:57	1
Barium	0.23		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:57	1
Beryllium	0.00059 J ^		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:57	1
Boron	1.2		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:57	1
Cadmium	0.00036 J		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:57	1
Calcium	40		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:57	1
Cobalt	0.16		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:57	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:57	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:57	1
Nickel	0.017		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-14

Lab Sample ID: 180-103744-5

Date Collected: 03/17/20 13:50

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:57	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:57	1
Thallium	0.00055	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:57	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:57	1
Zinc	0.014		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		10	10	mg/L			03/21/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.63				SU			03/17/20 13:50	1

Client Sample ID: GWC-16

Lab Sample ID: 180-103744-6

Date Collected: 03/17/20 14:50

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.32	mg/L			04/01/20 19:13	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 19:13	1
Sulfate	0.84	J	1.0	0.38	mg/L			04/01/20 19:13	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:01	1
Barium	0.019		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:01	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 16:01	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:01	1
Calcium	7.4		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:01	1
Chromium	0.0024		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:01	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:01	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:01	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:01	1
Vanadium	0.0044		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:01	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 17:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-16

Date Collected: 03/17/20 14:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-6

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			03/21/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.35				SU			03/17/20 14:50	1

Client Sample ID: Dup-3

Date Collected: 03/17/20 00:00

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-7

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.32	mg/L			04/01/20 19:29	1
Fluoride	0.028	J	0.10	0.026	mg/L			04/01/20 19:29	1
Sulfate	8.2		1.0	0.38	mg/L			04/01/20 19:29	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:04	1
Barium	0.23		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:04	1
Beryllium	0.00055	J ^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 16:04	1
Boron	1.2		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:04	1
Cadmium	0.00038	J	0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:04	1
Calcium	39		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:04	1
Cobalt	0.16		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:04	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:04	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:04	1
Nickel	0.017		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:04	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:04	1
Selenium	0.0022	J	0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:04	1
Thallium	0.00051	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:04	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:04	1
Zinc	0.013		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		10	10	mg/L			03/21/20 07:58	1

Client Sample ID: Dup-2

Date Collected: 03/16/20 00:00

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-8

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.32	mg/L			04/01/20 20:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: Dup-2
Date Collected: 03/16/20 00:00
Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-8
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.052	J	0.10	0.026	mg/L			04/01/20 20:17	1
Sulfate	8.0		1.0	0.38	mg/L			04/01/20 20:17	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:07	1
Barium	0.046		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:07	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 16:07	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:07	1
Calcium	12		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:07	1
Cobalt	0.012		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:07	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:07	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:07	1
Nickel	0.0043		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:07	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:07	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:07	1
Zinc	0.0032	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			03/21/20 07:58	1

Client Sample ID: GWC-6
Date Collected: 03/16/20 11:20
Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-9
Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.32	mg/L			04/01/20 20:32	1
Fluoride	0.073	J	0.10	0.026	mg/L			04/01/20 20:32	1
Sulfate	30		1.0	0.38	mg/L			04/01/20 20:32	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:18	1
Barium	0.045		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 13:42	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:18	1
Calcium	12		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:18	1
Cobalt	0.012		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-6

Date Collected: 03/16/20 11:20

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-9

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:18	1
Nickel	0.0043		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:18	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:18	1
Thallium	0.00015	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:18	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:18	1
Zinc	0.0032	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			03/21/20 07:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/16/20 11:20	1

Client Sample ID: GWC-5

Date Collected: 03/16/20 12:45

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103744-10

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.32	mg/L			04/01/20 20:48	1
Fluoride	0.076	J	0.10	0.026	mg/L			04/01/20 20:48	1
Sulfate	29		1.0	0.38	mg/L			04/01/20 20:48	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	[^]	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:21	1
Barium	0.023		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 13:46	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:21	1
Calcium	33		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:21	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:21	1
Cobalt	0.0049		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:21	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:21	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:21	1
Nickel	0.0049		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:21	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:21	1
Vanadium	0.0028		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:21	1
Zinc	0.0033	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:21	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-5

Lab Sample ID: 180-103744-10

Date Collected: 03/16/20 12:45

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			03/21/20 07:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.35				SU			03/16/20 12:45	1

Client Sample ID: GWC-31

Lab Sample ID: 180-103744-11

Date Collected: 03/17/20 10:00

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.32	mg/L			04/01/20 21:04	1
Fluoride	1.2		0.10	0.026	mg/L			04/01/20 21:04	1
Sulfate	7.3		1.0	0.38	mg/L			04/01/20 21:04	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:25	1
Barium	0.0020	J	0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:25	1
Beryllium	0.00040	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 13:49	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:25	1
Calcium	10		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:25	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:25	1
Copper	0.0014	J	0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:25	1
Silver	0.00018	J	0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:25	1
Nickel	0.0029		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:25	1
Lead	0.00051	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:25	1
Thallium	0.00017	J B	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:25	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:25	1
Zinc	0.044		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			03/21/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.15				SU			03/17/20 10:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: EB-3-3-17-20

Lab Sample ID: 180-103744-12

Date Collected: 03/17/20 10:40

Matrix: Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/01/20 21:20	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 21:20	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/20 21:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:28	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 13:52	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:28	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:28	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:28	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:28	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:28	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:28	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 08:52	1

Client Sample ID: FB-3-3-17-20

Lab Sample ID: 180-103744-13

Date Collected: 03/17/20 13:00

Matrix: Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/01/20 21:36	1
Fluoride	0.042	J	0.10	0.026	mg/L			04/01/20 21:36	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/20 21:36	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:32	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 13:56	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:32	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:32	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: FB-3-3-17-20

Lab Sample ID: 180-103744-13

Date Collected: 03/17/20 13:00

Matrix: Water

Date Received: 03/19/20 08:30

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:32	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:32	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:32	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:32	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:32	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 08:52	1

Client Sample ID: GWC-18

Lab Sample ID: 180-103744-14

Date Collected: 03/17/20 13:10

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.32	mg/L			04/01/20 21:52	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 21:52	1
Sulfate	1.0		1.0	0.38	mg/L			04/01/20 21:52	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:35	1
Barium	0.039		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 14:06	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:35	1
Calcium	7.6		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:35	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:35	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:35	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:35	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:35	1
Vanadium	0.0015		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:35	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-18

Lab Sample ID: 180-103744-14

Date Collected: 03/17/20 13:10

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L			03/21/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.88				SU			03/17/20 13:10	1

Client Sample ID: GWC-17

Lab Sample ID: 180-103744-15

Date Collected: 03/17/20 14:30

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			04/01/20 22:07	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 22:07	1
Sulfate	1.2		1.0	0.38	mg/L			04/01/20 22:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 16:39	1
Barium	0.017		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 16:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/15/20 14:09	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 16:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 16:39	1
Calcium	8.5		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 16:39	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 16:39	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 16:39	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 16:39	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 16:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 16:39	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 16:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 16:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 16:39	1
Vanadium	0.0024		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 16:39	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 16:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			03/21/20 08:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.09				SU			03/17/20 14:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-12

Lab Sample ID: 180-103810-1

Date Collected: 03/18/20 10:35

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		1.0	0.32	mg/L			04/07/20 02:49	1
Fluoride	0.058	J	0.10	0.026	mg/L			04/07/20 02:49	1
Sulfate	25		1.0	0.38	mg/L			04/07/20 02:49	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00061	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 19:58	1
Barium	0.023		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 19:58	1
Beryllium	0.00029	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 19:58	1
Boron	0.058	J	0.080	0.039	mg/L		03/25/20 11:00	04/08/20 19:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 19:58	1
Calcium	46		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 19:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 19:58	1
Cobalt	0.0012	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 19:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 19:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 19:58	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 19:58	1
Lead	0.00020	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 19:58	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 19:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 19:58	1
Thallium	0.00037	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 19:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 19:58	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 19:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			03/22/20 06:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55				SU			03/18/20 10:35	1

Client Sample ID: GWC-22

Lab Sample ID: 180-103810-2

Date Collected: 03/18/20 11:43

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.32	mg/L			04/06/20 22:42	1
Fluoride	0.056	J	0.10	0.026	mg/L			04/06/20 22:42	1
Sulfate	0.65	J	1.0	0.38	mg/L			04/06/20 22:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00058	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:16	1
Barium	0.025		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:16	1
Beryllium	0.00038	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-22

Date Collected: 03/18/20 11:43

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-2

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.041	J	0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:16	1
Cadmium	0.00062	J	0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:16	1
Calcium	11		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:16	1
Cobalt	0.00027	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:16	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:16	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:16	1
Nickel	0.00042	J	0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:16	1
Lead	0.00067	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:16	1
Thallium	0.00066	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:16	1
Vanadium	0.0069		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:16	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			03/22/20 06:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.85				SU			03/18/20 11:43	1

Client Sample ID: GWC-23

Date Collected: 03/18/20 13:36

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-3

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.32	mg/L			04/06/20 23:28	1
Fluoride	0.034	J	0.10	0.026	mg/L			04/06/20 23:28	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 23:28	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:19	1
Barium	0.0055	J	0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:19	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:19	1
Calcium	4.0		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:19	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:19	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:19	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:19	1
Nickel	0.00079	J	0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:19	1
Lead	0.00022	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-23

Date Collected: 03/18/20 13:36

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-3

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:19	1
Thallium	0.00024	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:19	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:19	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	29		10	10	mg/L			03/22/20 06:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.06				SU			03/18/20 13:36	1

Client Sample ID: EB-4-3-18-20

Date Collected: 03/18/20 13:30

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-4

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 22:11	1
Fluoride	0.042	J	0.10	0.026	mg/L			04/06/20 22:11	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 22:11	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:23	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:23	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:23	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:23	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:23	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:23	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:23	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:23	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 20:03	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: EB-4-3-18-20

Lab Sample ID: 180-103810-4

Date Collected: 03/18/20 13:30

Matrix: Water

Date Received: 03/20/20 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/22/20 06:52	1

Client Sample ID: FB-4-3-18-20

Lab Sample ID: 180-103810-5

Date Collected: 03/18/20 13:35

Matrix: Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 22:26	1
Fluoride	0.040	J	0.10	0.026	mg/L			04/06/20 22:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 22:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:26	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:26	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:26	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:26	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:26	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:26	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:26	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:26	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:26	1
Zinc	0.0042	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/22/20 06:52	1

Client Sample ID: Dup-4

Lab Sample ID: 180-103810-6

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.32	mg/L			04/07/20 01:33	1
Fluoride	0.047	J	0.10	0.026	mg/L			04/07/20 01:33	1
Sulfate	0.66	J	1.0	0.38	mg/L			04/07/20 01:33	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: Dup-4
Date Collected: 03/18/20 00:00
Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-6
Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:37	1
Barium	0.14		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:37	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:37	1
Calcium	11		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:37	1
Cobalt	0.0025		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:37	1
Nickel	0.0013		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:37	1
Lead	0.00022 J		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:37	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:37	1
Vanadium	0.0016		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:37	1
Zinc	0.0082		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			03/22/20 06:52	1

Client Sample ID: GWC-19

Date Collected: 03/18/20 12:40
Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-7
Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			04/07/20 01:48	1
Fluoride	0.068 J		0.10	0.026	mg/L			04/07/20 01:48	1
Sulfate	1.1		1.0	0.38	mg/L			04/07/20 01:48	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:40	1
Barium	0.13		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:40	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:40	1
Calcium	11		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:40	1
Cobalt	0.0016 J		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:40	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:40	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:40	1
Nickel	0.0011		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:40	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-19

Date Collected: 03/18/20 12:40

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-7

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:40	1
Vanadium	0.0011		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:40	1
Zinc	0.0078		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:40	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		10	10	mg/L			03/22/20 06:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.71				SU			03/18/20 12:40	1

Client Sample ID: GWC-21

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-8

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		1.0	0.32	mg/L			04/07/20 02:04	1
Fluoride	0.034	J	0.10	0.026	mg/L			04/07/20 02:04	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 02:04	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:44	1
Barium	0.056		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:44	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:44	1
Calcium	7.3		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:44	1
Cobalt	0.00060	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:44	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:44	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:44	1
Nickel	0.00040	J	0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:44	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:44	1
Zinc	0.0052		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:39	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-21

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-8

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	49		10	10	mg/L			03/22/20 06:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.45				SU			03/18/20 14:50	1

Client Sample ID: GWC-32

Date Collected: 03/18/20 11:00

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-9

Matrix: Ground Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			04/07/20 02:20	1
Fluoride	2.8		0.10	0.026	mg/L			04/07/20 02:20	1
Sulfate	8.8		1.0	0.38	mg/L			04/07/20 02:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:47	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:47	1
Beryllium	0.0014	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:47	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:47	1
Calcium	12		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:47	1
Cobalt	0.0010	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:47	1
Nickel	0.0011		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:47	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:47	1
Zinc	0.13		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			03/24/20 08:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.13				SU			03/18/20 11:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: GWC-20

Lab Sample ID: 180-103810-10

Date Collected: 03/18/20 14:10

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.32	mg/L			04/07/20 03:07	1
Fluoride	0.048	J	0.10	0.026	mg/L			04/07/20 03:07	1
Sulfate	0.72	J	1.0	0.38	mg/L			04/07/20 03:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:51	1
Barium	0.031		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:51	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:51	1
Calcium	8.9		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:51	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:51	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:51	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:51	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:51	1
Vanadium	0.0016		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:51	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:04	03/31/20 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	78		10	10	mg/L			03/24/20 08:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.16				SU			03/18/20 14:10	1

Client Sample ID: SWC-8

Lab Sample ID: 180-103810-11

Date Collected: 03/19/20 10:13

Matrix: Surface Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/07/20 22:26	1
Fluoride	0.036	J	0.10	0.026	mg/L			04/07/20 22:26	1
Sulfate	8.3		1.0	0.38	mg/L			04/07/20 22:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00067	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:54	1
Barium	0.042		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: SWC-8

Date Collected: 03/19/20 10:13

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-11

Matrix: Surface Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:54	1
Calcium	13		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:54	1
Cobalt	0.015		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:54	1
Copper	0.00067	J	0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:54	1
Nickel	0.0013		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:54	1
Lead	0.00029	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:54	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:54	1
Vanadium	0.0011		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:54	1
Zinc	0.0050		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/31/20 16:23	04/01/20 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.37				SU			03/19/20 10:13	1

Client Sample ID: SWC-5

Date Collected: 03/19/20 10:25

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-12

Matrix: Surface Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		1.0	0.32	mg/L			04/07/20 22:41	1
Fluoride	0.041	J	0.10	0.026	mg/L			04/07/20 22:41	1
Sulfate	15		1.0	0.38	mg/L			04/07/20 22:41	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 20:58	1
Barium	0.077		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 20:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 20:58	1
Boron	0.34		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 20:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 20:58	1
Calcium	20		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 20:58	1
Cobalt	0.0039		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 20:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 20:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 20:58	1
Nickel	0.0026		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 20:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 20:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: SWC-5

Date Collected: 03/19/20 10:25

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-12

Matrix: Surface Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 20:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 20:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 20:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 20:58	1
Zinc	0.0039	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 20:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/31/20 16:23	04/01/20 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			03/24/20 08:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.75				SU			03/19/20 10:25	1

Client Sample ID: SWC-7

Date Collected: 03/19/20 10:51

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-13

Matrix: Surface Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/07/20 22:57	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 22:57	1
Sulfate	5.4		1.0	0.38	mg/L			04/07/20 22:57	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 21:01	1
Barium	0.032		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 21:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 21:01	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 21:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 21:01	1
Calcium	5.0		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 21:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 21:01	1
Cobalt	0.0030		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 21:01	1
Copper	0.00083	J	0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 21:01	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 21:01	1
Nickel	0.00040	J	0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 21:01	1
Lead	0.00053	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 21:01	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 21:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 21:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 21:01	1
Vanadium	0.0019		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 21:01	1
Zinc	0.0036	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 21:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/31/20 16:23	04/01/20 16:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Client Sample ID: SWC-7

Date Collected: 03/19/20 10:51

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-13

Matrix: Surface Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.59				SU			03/19/20 10:51	1

Client Sample ID: SWA-1

Date Collected: 03/19/20 11:14

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103810-14

Matrix: Surface Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			04/07/20 23:45	1
Fluoride	0.029	J	0.10	0.026	mg/L			04/07/20 23:45	1
Sulfate	2.2		1.0	0.38	mg/L			04/07/20 23:45	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 21:05	1
Barium	0.017		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 21:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 21:05	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 21:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 21:05	1
Calcium	1.9		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 21:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 21:05	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 21:05	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 21:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 21:05	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 21:05	1
Lead	0.00041	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 21:05	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 21:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 21:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 21:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 21:05	1
Zinc	0.0035	J	0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 21:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/31/20 16:23	04/01/20 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.00				SU			03/19/20 11:14	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-310811/51
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/23/20 19:36	1
Chloride	<0.32		1.0	0.32	mg/L			03/23/20 19:36	1
Sulfate	<0.38		1.0	0.38	mg/L			03/23/20 19:36	1

Lab Sample ID: LCS 180-310811/50
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.51		mg/L		100	90 - 110
Chloride	50.0	47.2		mg/L		94	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

Lab Sample ID: 180-103501-1 MS
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.026		1.25	1.27		mg/L		102	80 - 120
Sulfate	2.8		25.0	27.7		mg/L		100	80 - 120

Lab Sample ID: 180-103501-1 MSD
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.026		1.25	1.30		mg/L		104	80 - 120	2	20
Sulfate	2.8		25.0	27.8		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 180-310904/87
Matrix: Water
Analysis Batch: 310904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/25/20 05:30	1

Lab Sample ID: LCS 180-310904/86
Matrix: Water
Analysis Batch: 310904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: 180-103501-1 MS
Matrix: Water
Analysis Batch: 310904

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.1		25.0	31.0		mg/L		107	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-103501-1 MSD
 Matrix: Water
 Analysis Batch: 310904

Client Sample ID: Dup-1
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.1		25.0	28.0		mg/L		95	80 - 120	10	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-310904/6
 Matrix: Water
 Analysis Batch: 310904

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/24/20 08:10	1
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 08:10	1
Sulfate	<0.38		1.0	0.38	mg/L			03/24/20 08:10	1

Lab Sample ID: LCS 180-310904/5
 Matrix: Water
 Analysis Batch: 310904

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.42		mg/L		97	90 - 110
Chloride	50.0	49.2		mg/L		98	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: MB 180-311327/46
 Matrix: Water
 Analysis Batch: 311327

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/27/20 18:40	1
Chloride	<0.32		1.0	0.32	mg/L			03/27/20 18:40	1
Sulfate	<0.38		1.0	0.38	mg/L			03/27/20 18:40	1

Lab Sample ID: LCS 180-311327/45
 Matrix: Water
 Analysis Batch: 311327

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.45		mg/L		98	90 - 110
Chloride	50.0	50.5		mg/L		101	90 - 110
Sulfate	50.0	49.9		mg/L		100	90 - 110

Lab Sample ID: MB 180-311429/43
 Matrix: Water
 Analysis Batch: 311429

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/28/20 17:33	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-311429/42
Matrix: Water
Analysis Batch: 311429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.50		mg/L		100	90 - 110

Lab Sample ID: 180-103653-5 MS
Matrix: Ground Water
Analysis Batch: 311429

Client Sample ID: GWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.043	J	1.25	1.24		mg/L		96	80 - 120
Chloride	3.1		25.0	27.8		mg/L		99	80 - 120
Sulfate	20		25.0	43.5		mg/L		93	80 - 120

Lab Sample ID: 180-103653-5 MSD
Matrix: Ground Water
Analysis Batch: 311429

Client Sample ID: GWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.043	J	1.25	1.26		mg/L		98	80 - 120	2	20
Chloride	3.1		25.0	28.6		mg/L		102	80 - 120	3	20
Sulfate	20		25.0	42.8		mg/L		90	80 - 120	2	20

Lab Sample ID: MB 180-311491/6
Matrix: Water
Analysis Batch: 311491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/30/20 06:28	1
Chloride	<0.32		1.0	0.32	mg/L			03/30/20 06:28	1
Sulfate	<0.38		1.0	0.38	mg/L			03/30/20 06:28	1

Lab Sample ID: LCS 180-311491/5
Matrix: Water
Analysis Batch: 311491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.32		mg/L		93	90 - 110
Chloride	50.0	48.0		mg/L		96	90 - 110
Sulfate	50.0	47.2		mg/L		94	90 - 110

Lab Sample ID: MB 180-311618/46
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 21:49	1
Chloride	<0.32		1.0	0.32	mg/L			03/31/20 21:49	1
Sulfate	<0.38		1.0	0.38	mg/L			03/31/20 21:49	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-311618/45
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.37		mg/L		95	90 - 110
Chloride	50.0	48.9		mg/L		98	90 - 110
Sulfate	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: MB 180-311725/41
Matrix: Water
Analysis Batch: 311725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 17:22	1
Chloride	<0.32		1.0	0.32	mg/L			04/01/20 17:22	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/20 17:22	1

Lab Sample ID: LCS 180-311725/40
Matrix: Water
Analysis Batch: 311725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.35		mg/L		94	90 - 110
Chloride	50.0	48.9		mg/L		98	90 - 110
Sulfate	50.0	48.3		mg/L		97	90 - 110

Lab Sample ID: 180-103744-2 MS
Matrix: Ground Water
Analysis Batch: 311725

Client Sample ID: GWC-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.051	J F1	1.25	1.21		mg/L		93	80 - 120
Chloride	0.81	J	25.0	25.0		mg/L		97	80 - 120
Sulfate	0.44	J	25.0	24.1		mg/L		95	80 - 120

Lab Sample ID: 180-103744-2 MSD
Matrix: Ground Water
Analysis Batch: 311725

Client Sample ID: GWC-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.051	J F1	1.25	1.02	F1	mg/L		78	80 - 120	17	20
Chloride	0.81	J	25.0	24.6		mg/L		95	80 - 120	2	20
Sulfate	0.44	J	25.0	23.7		mg/L		93	80 - 120	2	20

Lab Sample ID: MB 180-312143/6
Matrix: Water
Analysis Batch: 312143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			04/06/20 15:26	1
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 15:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 15:26	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-312143/5
Matrix: Water
Analysis Batch: 312143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.75		mg/L		110	90 - 110
Chloride	50.0	50.3		mg/L		101	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: 180-103810-2 MS
Matrix: Ground Water
Analysis Batch: 312143

Client Sample ID: GWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.056	J	1.25	1.38		mg/L		106	80 - 120
Chloride	1.8		25.0	26.2		mg/L		98	80 - 120
Sulfate	0.65	J	25.0	25.0		mg/L		98	80 - 120

Lab Sample ID: 180-103810-2 MSD
Matrix: Ground Water
Analysis Batch: 312143

Client Sample ID: GWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Fluoride	0.056	J	1.25	1.37		mg/L		105	80 - 120	0	20
Chloride	1.8		25.0	25.9		mg/L		97	80 - 120	1	20
Sulfate	0.65	J	25.0	24.9		mg/L		97	80 - 120	1	20

Lab Sample ID: 180-103810-10 MS
Matrix: Ground Water
Analysis Batch: 312143

Client Sample ID: GWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.048	J	1.25	1.38		mg/L		107	80 - 120
Chloride	2.1		25.0	26.5		mg/L		98	80 - 120
Sulfate	0.72	J	25.0	25.5		mg/L		99	80 - 120

Lab Sample ID: 180-103810-10 MSD
Matrix: Ground Water
Analysis Batch: 312143

Client Sample ID: GWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Fluoride	0.048	J	1.25	1.37		mg/L		106	80 - 120	1	20
Chloride	2.1		25.0	26.4		mg/L		97	80 - 120	0	20
Sulfate	0.72	J	25.0	25.3		mg/L		98	80 - 120	1	20

Lab Sample ID: MB 180-312144/6
Matrix: Water
Analysis Batch: 312144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			04/06/20 15:35	1
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 15:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 15:35	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-312144/5
Matrix: Water
Analysis Batch: 312144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.44		mg/L		98	90 - 110
Chloride	50.0	51.3		mg/L		103	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

Lab Sample ID: 180-103810-1 MS
Matrix: Ground Water
Analysis Batch: 312144

Client Sample ID: GWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.058	J	1.25	1.29		mg/L		99	80 - 120
Chloride	22		25.0	45.5		mg/L		93	80 - 120
Sulfate	25		25.0	47.3		mg/L		90	80 - 120

Lab Sample ID: 180-103810-1 MSD
Matrix: Ground Water
Analysis Batch: 312144

Client Sample ID: GWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.058	J	1.25	1.30		mg/L		99	80 - 120	0	20
Chloride	22		25.0	46.2		mg/L		95	80 - 120	1	20
Sulfate	25		25.0	48.0		mg/L		93	80 - 120	2	20

Lab Sample ID: MB 180-312254/6
Matrix: Water
Analysis Batch: 312254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 17:25	1
Chloride	<0.32		1.0	0.32	mg/L			04/07/20 17:25	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 17:25	1

Lab Sample ID: LCS 180-312254/5
Matrix: Water
Analysis Batch: 312254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.30		mg/L		92	90 - 110
Chloride	50.0	47.6		mg/L		95	90 - 110
Sulfate	50.0	47.5		mg/L		95	90 - 110

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-310852/1-A
Matrix: Water
Analysis Batch: 311296

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00018		0.0010	0.00018	mg/L		03/16/20 11:00	03/26/20 13:15	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/16/20 11:00	03/26/20 13:15	1
Barium	<0.0016		0.010	0.0016	mg/L		03/16/20 11:00	03/26/20 13:15	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-310852/1-A
Matrix: Water
Analysis Batch: 311296

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310852

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/16/20 11:00	03/26/20 13:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/20 11:00	03/26/20 13:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/20 11:00	03/26/20 13:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/16/20 11:00	03/26/20 13:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/16/20 11:00	03/26/20 13:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/16/20 11:00	03/26/20 13:15	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/16/20 11:00	03/26/20 13:15	1
Boron	<0.039		0.080	0.039	mg/L		03/16/20 11:00	03/26/20 13:15	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/20 11:00	03/26/20 13:15	1

Lab Sample ID: MB 180-310852/1-A
Matrix: Water
Analysis Batch: 311438

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310852

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/16/20 11:00	03/27/20 10:50	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/16/20 11:00	03/27/20 10:50	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/16/20 11:00	03/27/20 10:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/16/20 11:00	03/27/20 10:50	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/16/20 11:00	03/27/20 10:50	1

Lab Sample ID: LCS 180-310852/2-A
Matrix: Water
Analysis Batch: 311296

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 310852

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Silver	0.250	0.256		mg/L		102		80 - 120
Arsenic	1.00	0.886		mg/L		89		80 - 120
Barium	1.00	1.06		mg/L		106		80 - 120
Beryllium	0.500	0.494		mg/L		99		80 - 120
Cadmium	0.500	0.522		mg/L		104		80 - 120
Chromium	0.500	0.559		mg/L		112		80 - 120
Lead	0.500	0.502		mg/L		100		80 - 120
Antimony	0.250	0.251		mg/L		100		80 - 120
Thallium	1.00	1.06		mg/L		106		80 - 120
Vanadium	0.500	0.554		mg/L		111		80 - 120
Boron	1.25	1.24		mg/L		99		80 - 120
Calcium	25.0	25.4		mg/L		102		80 - 120

Lab Sample ID: LCS 180-310852/2-A
Matrix: Water
Analysis Batch: 311438

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 310852

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Cobalt	0.500	0.465		mg/L		93		80 - 120
Copper	0.500	0.551		mg/L		110		80 - 120
Nickel	0.500	0.469		mg/L		94		80 - 120
Selenium	1.00	1.05		mg/L		105		80 - 120
Zinc	0.250	0.262		mg/L		105		80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-311030/1-A
Matrix: Water
Analysis Batch: 311959

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 00:13	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 00:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 00:13	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 00:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 00:13	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 00:13	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 00:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 07:30	04/03/20 00:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 07:30	04/03/20 00:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 07:30	04/03/20 00:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 00:13	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 07:30	04/03/20 00:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 00:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 00:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 07:30	04/03/20 00:13	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 07:30	04/03/20 00:13	1

Lab Sample ID: LCS 180-311030/2-A
Matrix: Water
Analysis Batch: 311959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.927		mg/L		93	80 - 120
Barium	1.00	0.962		mg/L		96	80 - 120
Beryllium	0.500	0.472		mg/L		94	80 - 120
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.496		mg/L		99	80 - 120
Calcium	25.0	27.6		mg/L		110	80 - 120
Chromium	0.500	0.481		mg/L		96	80 - 120
Cobalt	0.500	0.469		mg/L		94	80 - 120
Copper	0.500	0.463		mg/L		93	80 - 120
Silver	0.250	0.232		mg/L		93	80 - 120
Nickel	0.500	0.468		mg/L		94	80 - 120
Lead	0.500	0.483		mg/L		97	80 - 120
Antimony	0.250	0.231		mg/L		92	80 - 120
Selenium	1.00	0.972		mg/L		97	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Vanadium	0.500	0.481		mg/L		96	80 - 120
Zinc	0.250	0.229		mg/L		91	80 - 120

Lab Sample ID: 180-103653-4 MS
Matrix: Ground Water
Analysis Batch: 311959

Client Sample ID: GWC-7
Prep Type: Total Recoverable
Prep Batch: 311030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.948		mg/L		95	75 - 125
Barium	0.072		1.00	1.07		mg/L		100	75 - 125
Beryllium	<0.00018		0.500	0.477		mg/L		95	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-103653-4 MS
Matrix: Ground Water
Analysis Batch: 311959

Client Sample ID: GWC-7
Prep Type: Total Recoverable
Prep Batch: 311030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.039		1.25	1.29		mg/L		103	75 - 125
Cadmium	<0.00022		0.500	0.506		mg/L		101	75 - 125
Calcium	47		25.0	76.0		mg/L		114	75 - 125
Chromium	<0.0015		0.500	0.491		mg/L		98	75 - 125
Cobalt	0.00066	J	0.500	0.471		mg/L		94	75 - 125
Copper	<0.00063		0.500	0.470		mg/L		94	75 - 125
Silver	<0.00018		0.250	0.237		mg/L		95	75 - 125
Nickel	0.0074		0.500	0.475		mg/L		93	75 - 125
Lead	<0.00013		0.500	0.493		mg/L		99	75 - 125
Antimony	<0.00038		0.250	0.241		mg/L		96	75 - 125
Selenium	<0.0015		1.00	0.977		mg/L		98	75 - 125
Thallium	<0.00015		1.00	1.04		mg/L		104	75 - 125
Vanadium	0.0019		0.500	0.492		mg/L		98	75 - 125
Zinc	0.038		0.250	0.266		mg/L		91	75 - 125

Lab Sample ID: 180-103653-4 MSD
Matrix: Ground Water
Analysis Batch: 311959

Client Sample ID: GWC-7
Prep Type: Total Recoverable
Prep Batch: 311030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	<0.00031		1.00	0.958		mg/L		96	75 - 125	1	20
Barium	0.072		1.00	1.06		mg/L		99	75 - 125	1	20
Beryllium	<0.00018		0.500	0.481		mg/L		96	75 - 125	1	20
Boron	<0.039		1.25	1.29		mg/L		103	75 - 125	0	20
Cadmium	<0.00022		0.500	0.508		mg/L		102	75 - 125	0	20
Calcium	47		25.0	75.0		mg/L		110	75 - 125	1	20
Chromium	<0.0015		0.500	0.494		mg/L		99	75 - 125	1	20
Cobalt	0.00066	J	0.500	0.478		mg/L		95	75 - 125	1	20
Copper	<0.00063		0.500	0.474		mg/L		95	75 - 125	1	20
Silver	<0.00018		0.250	0.239		mg/L		96	75 - 125	1	20
Nickel	0.0074		0.500	0.482		mg/L		95	75 - 125	1	20
Lead	<0.00013		0.500	0.492		mg/L		98	75 - 125	0	20
Antimony	<0.00038		0.250	0.241		mg/L		96	75 - 125	0	20
Selenium	<0.0015		1.00	0.977		mg/L		98	75 - 125	0	20
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125	1	20
Vanadium	0.0019		0.500	0.496		mg/L		99	75 - 125	1	20
Zinc	0.038		0.250	0.271		mg/L		93	75 - 125	2	20

Lab Sample ID: MB 180-311072/1-A
Matrix: Water
Analysis Batch: 312557

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:15	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:15	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:15	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:15	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:15	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-311072/1-A
Matrix: Water
Analysis Batch: 312557

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:15	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/09/20 15:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/09/20 15:15	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/09/20 15:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:15	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/09/20 15:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Thallium	0.000232	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/09/20 15:15	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/09/20 15:15	1

Lab Sample ID: LCS 180-311072/2-A
Matrix: Water
Analysis Batch: 312557

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.01	^	mg/L		101	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.457	^	mg/L		91	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120
Cadmium	0.500	0.513		mg/L		103	80 - 120
Calcium	25.0	28.6		mg/L		115	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Copper	0.500	0.491		mg/L		98	80 - 120
Silver	0.250	0.261		mg/L		104	80 - 120
Nickel	0.500	0.496		mg/L		99	80 - 120
Lead	0.500	0.516		mg/L		103	80 - 120
Antimony	0.250	0.242		mg/L		97	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120
Vanadium	0.500	0.519		mg/L		104	80 - 120
Zinc	0.250	0.248		mg/L		99	80 - 120

Lab Sample ID: 180-103744-1 MS
Matrix: Ground Water
Analysis Batch: 312557

Client Sample ID: GWC-9
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00065	J ^	1.00	1.01	^	mg/L		101	75 - 125
Barium	0.079		1.00	1.08		mg/L		100	75 - 125
Beryllium	0.00041	J ^	0.500	0.452	^	mg/L		90	75 - 125
Boron	0.052	J	1.25	1.26		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.506		mg/L		101	75 - 125
Calcium	8.9		25.0	37.2		mg/L		113	75 - 125
Chromium	0.0015	J	0.500	0.507		mg/L		101	75 - 125
Cobalt	0.026		0.500	0.524		mg/L		99	75 - 125
Copper	0.00077	J	0.500	0.491		mg/L		98	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-103744-1 MS
Matrix: Ground Water
Analysis Batch: 312557

Client Sample ID: GWC-9
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.00018		0.250	0.265		mg/L		106	75 - 125
Nickel	0.0091		0.500	0.499		mg/L		98	75 - 125
Lead	0.00025	J	0.500	0.510		mg/L		102	75 - 125
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125
Selenium	<0.0015		1.00	0.991		mg/L		99	75 - 125
Thallium	0.00044	J B	1.00	1.08		mg/L		108	75 - 125
Vanadium	<0.00099		0.500	0.510		mg/L		102	75 - 125
Zinc	0.0094		0.250	0.255		mg/L		98	75 - 125

Lab Sample ID: 180-103744-1 MSD
Matrix: Ground Water
Analysis Batch: 312557

Client Sample ID: GWC-9
Prep Type: Total Recoverable
Prep Batch: 311072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00065	J ^	1.00	1.01	^	mg/L		101	75 - 125	1	20
Barium	0.079		1.00	1.09		mg/L		101	75 - 125	1	20
Beryllium	0.00041	J ^	0.500	0.465	^	mg/L		93	75 - 125	3	20
Boron	0.052	J	1.25	1.33		mg/L		103	75 - 125	6	20
Cadmium	<0.00022		0.500	0.515		mg/L		103	75 - 125	2	20
Calcium	8.9		25.0	37.4		mg/L		114	75 - 125	1	20
Chromium	0.0015	J	0.500	0.506		mg/L		101	75 - 125	0	20
Cobalt	0.026		0.500	0.526		mg/L		100	75 - 125	1	20
Copper	0.00077	J	0.500	0.496		mg/L		99	75 - 125	1	20
Silver	<0.00018		0.250	0.261		mg/L		104	75 - 125	2	20
Nickel	0.0091		0.500	0.500		mg/L		98	75 - 125	0	20
Lead	0.00025	J	0.500	0.514		mg/L		103	75 - 125	1	20
Antimony	<0.00038		0.250	0.243		mg/L		97	75 - 125	0	20
Selenium	<0.0015		1.00	0.997		mg/L		100	75 - 125	1	20
Thallium	0.00044	J B	1.00	1.09		mg/L		109	75 - 125	1	20
Vanadium	<0.00099		0.500	0.512		mg/L		102	75 - 125	0	20
Zinc	0.0094		0.250	0.255		mg/L		98	75 - 125	0	20

Lab Sample ID: MB 180-311074/1-A
Matrix: Water
Analysis Batch: 312440

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/08/20 19:41	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/08/20 19:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/08/20 19:41	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/08/20 19:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/08/20 19:41	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 19:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/08/20 19:41	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/08/20 19:41	1
Copper	<0.00063		0.0020	0.00063	mg/L		03/25/20 11:00	04/08/20 19:41	1
Silver	<0.00018		0.0010	0.00018	mg/L		03/25/20 11:00	04/08/20 19:41	1
Nickel	<0.00034		0.0010	0.00034	mg/L		03/25/20 11:00	04/08/20 19:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/08/20 19:41	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-311074/1-A
Matrix: Water
Analysis Batch: 312440

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/08/20 19:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/08/20 19:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/08/20 19:41	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		03/25/20 11:00	04/08/20 19:41	1
Zinc	<0.0032		0.0050	0.0032	mg/L		03/25/20 11:00	04/08/20 19:41	1

Lab Sample ID: LCS 180-311074/2-A
Matrix: Water
Analysis Batch: 312440

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	0.982		mg/L		98	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.507		mg/L		101	80 - 120
Boron	1.25	1.17		mg/L		94	80 - 120
Cadmium	0.500	0.491		mg/L		98	80 - 120
Calcium	25.0	28.1		mg/L		112	80 - 120
Chromium	0.500	0.492		mg/L		98	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Copper	0.500	0.478		mg/L		96	80 - 120
Silver	0.250	0.243		mg/L		97	80 - 120
Nickel	0.500	0.477		mg/L		95	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Antimony	0.250	0.239		mg/L		96	80 - 120
Selenium	1.00	0.976		mg/L		98	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120
Vanadium	0.500	0.495		mg/L		99	80 - 120
Zinc	0.250	0.239		mg/L		96	80 - 120

Lab Sample ID: 180-103810-1 MS
Matrix: Ground Water
Analysis Batch: 312440

Client Sample ID: GWC-12
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.00061	J	1.00	1.00		mg/L		100	75 - 125
Barium	0.023		1.00	1.05		mg/L		103	75 - 125
Beryllium	0.00029	J	0.500	0.517		mg/L		103	75 - 125
Boron	0.058	J	1.25	1.24		mg/L		94	75 - 125
Cadmium	<0.00022		0.500	0.504		mg/L		101	75 - 125
Calcium	46		25.0	73.4		mg/L		110	75 - 125
Chromium	<0.0015		0.500	0.496		mg/L		99	75 - 125
Cobalt	0.0012	J	0.500	0.492		mg/L		98	75 - 125
Copper	<0.00063		0.500	0.486		mg/L		97	75 - 125
Silver	<0.00018		0.250	0.249		mg/L		100	75 - 125
Nickel	<0.00034		0.500	0.480		mg/L		96	75 - 125
Lead	0.00020	J	0.500	0.507		mg/L		101	75 - 125
Antimony	<0.00038		0.250	0.247		mg/L		99	75 - 125
Selenium	<0.0015		1.00	0.999		mg/L		100	75 - 125
Thallium	0.00037	J	1.00	1.03		mg/L		103	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-103810-1 MS
Matrix: Ground Water
Analysis Batch: 312440

Client Sample ID: GWC-12
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	<0.00099		0.500	0.503		mg/L		101	75 - 125
Zinc	<0.0032		0.250	0.242		mg/L		97	75 - 125

Lab Sample ID: 180-103810-1 MSD
Matrix: Ground Water
Analysis Batch: 312440

Client Sample ID: GWC-12
Prep Type: Total Recoverable
Prep Batch: 311074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00061	J	1.00	0.980		mg/L		98	75 - 125	2	20
Barium	0.023		1.00	1.02		mg/L		99	75 - 125	3	20
Beryllium	0.00029	J	0.500	0.511		mg/L		102	75 - 125	1	20
Boron	0.058	J	1.25	1.24		mg/L		95	75 - 125	0	20
Cadmium	<0.00022		0.500	0.490		mg/L		98	75 - 125	3	20
Calcium	46		25.0	72.9		mg/L		107	75 - 125	1	20
Chromium	<0.0015		0.500	0.486		mg/L		97	75 - 125	2	20
Cobalt	0.0012	J	0.500	0.478		mg/L		95	75 - 125	3	20
Copper	<0.00063		0.500	0.472		mg/L		94	75 - 125	3	20
Silver	<0.00018		0.250	0.247		mg/L		99	75 - 125	1	20
Nickel	<0.00034		0.500	0.468		mg/L		94	75 - 125	2	20
Lead	0.00020	J	0.500	0.498		mg/L		99	75 - 125	2	20
Antimony	<0.00038		0.250	0.241		mg/L		96	75 - 125	3	20
Selenium	<0.0015		1.00	0.974		mg/L		97	75 - 125	3	20
Thallium	0.00037	J	1.00	1.02		mg/L		102	75 - 125	1	20
Vanadium	<0.00099		0.500	0.490		mg/L		98	75 - 125	3	20
Zinc	<0.0032		0.250	0.240		mg/L		96	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-310197/1-A
Matrix: Water
Analysis Batch: 310256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/17/20 11:58	03/17/20 17:26	1

Lab Sample ID: LCS 180-310197/2-A
Matrix: Water
Analysis Batch: 310256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00245		mg/L		98	80 - 120

Lab Sample ID: MB 180-310482/1-A
Matrix: Water
Analysis Batch: 310647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/19/20 14:38	03/20/20 18:46	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-310482/2-A
Matrix: Water
Analysis Batch: 310647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310482
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

Lab Sample ID: MB 180-310609/1-A
Matrix: Water
Analysis Batch: 310647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/20/20 16:10	03/20/20 20:11	1

Lab Sample ID: LCS 180-310609/2-A
Matrix: Water
Analysis Batch: 310647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310609
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00278		mg/L		111	80 - 120

Lab Sample ID: MB 180-310885/1-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:44	03/24/20 16:29	1

Lab Sample ID: LCS 180-310885/2-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310885
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00236		mg/L		94	80 - 120

Lab Sample ID: MB 180-310887/1-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 17:53	1

Lab Sample ID: LCS 180-310887/2-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310887
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00450	0.00446		mg/L		99	80 - 120

Lab Sample ID: MB 180-311012/1-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 19:48	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: LCS 180-311012/2-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311012
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

Lab Sample ID: MB 180-311413/1-A
Matrix: Water
Analysis Batch: 311711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/27/20 20:01	03/31/20 17:13	1

Lab Sample ID: LCS 180-311413/2-A
Matrix: Water
Analysis Batch: 311711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311413
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00264		mg/L		105	80 - 120

Lab Sample ID: MB 180-311684/1-A
Matrix: Water
Analysis Batch: 311830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/31/20 16:23	04/01/20 16:11	1

Lab Sample ID: LCS 180-311684/2-A
Matrix: Water
Analysis Batch: 311830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311684
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

Lab Sample ID: 180-103810-11 MS
Matrix: Surface Water
Analysis Batch: 311830

Client Sample ID: SWC-8
Prep Type: Total/NA
Prep Batch: 311684
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000991		mg/L		99	75 - 125

Lab Sample ID: 180-103810-11 MSD
Matrix: Surface Water
Analysis Batch: 311830

Client Sample ID: SWC-8
Prep Type: Total/NA
Prep Batch: 311684
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000971		mg/L		97	75 - 125	2	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-309880/2
Matrix: Water
Analysis Batch: 309880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/13/20 10:25	1

Lab Sample ID: LCS 180-309880/1
Matrix: Water
Analysis Batch: 309880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	661	662		mg/L		100	80 - 120

Lab Sample ID: MB 180-310198/2
Matrix: Water
Analysis Batch: 310198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/17/20 12:07	1

Lab Sample ID: LCS 180-310198/1
Matrix: Water
Analysis Batch: 310198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	246		mg/L		102	80 - 120

Lab Sample ID: MB 180-310447/2
Matrix: Water
Analysis Batch: 310447

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/19/20 08:41	1

Lab Sample ID: LCS 180-310447/1
Matrix: Water
Analysis Batch: 310447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	228		mg/L		94	80 - 120

Lab Sample ID: MB 180-310448/2
Matrix: Water
Analysis Batch: 310448

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/19/20 08:43	1

Lab Sample ID: LCS 180-310448/1
Matrix: Water
Analysis Batch: 310448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	264		mg/L		109	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-310664/2
Matrix: Water
Analysis Batch: 310664

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 07:58	1

Lab Sample ID: LCS 180-310664/1
Matrix: Water
Analysis Batch: 310664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	236		mg/L		98	80 - 120

Lab Sample ID: 180-103744-7 DU
Matrix: Water
Analysis Batch: 310664

Client Sample ID: Dup-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		368		mg/L		2	10

Lab Sample ID: 180-103744-10 DU
Matrix: Ground Water
Analysis Batch: 310664

Client Sample ID: GWC-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		224		mg/L		6	10

Lab Sample ID: MB 180-310666/2
Matrix: Water
Analysis Batch: 310666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 08:52	1

Lab Sample ID: LCS 180-310666/1
Matrix: Water
Analysis Batch: 310666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	248		mg/L		102	80 - 120

Lab Sample ID: 180-103744-5 DU
Matrix: Ground Water
Analysis Batch: 310666

Client Sample ID: GWC-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		371		mg/L		0.5	10

Lab Sample ID: MB 180-310668/2
Matrix: Water
Analysis Batch: 310668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 08:55	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 180-310668/1
Matrix: Water
Analysis Batch: 310668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	224		mg/L		93	80 - 120

Lab Sample ID: 180-103744-4 DU
Matrix: Ground Water
Analysis Batch: 310668

Client Sample ID: GWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	140		129		mg/L		10	10

Lab Sample ID: MB 180-310714/2
Matrix: Water
Analysis Batch: 310714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/22/20 06:52	1

Lab Sample ID: LCS 180-310714/1
Matrix: Water
Analysis Batch: 310714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	232		mg/L		96	80 - 120

Lab Sample ID: 180-103810-1 DU
Matrix: Ground Water
Analysis Batch: 310714

Client Sample ID: GWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		187		mg/L		8	10

Lab Sample ID: MB 180-310933/2
Matrix: Water
Analysis Batch: 310933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/24/20 08:00	1

Lab Sample ID: LCS 180-310933/1
Matrix: Water
Analysis Batch: 310933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	236		mg/L		98	80 - 120

Lab Sample ID: 180-103810-9 DU
Matrix: Ground Water
Analysis Batch: 310933

Client Sample ID: GWC-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		121		mg/L		0	10

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-310934/2
Matrix: Water
Analysis Batch: 310934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/24/20 08:03	1

Lab Sample ID: LCS 180-310934/1
Matrix: Water
Analysis Batch: 310934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	258		mg/L		107	80 - 120

Lab Sample ID: MB 180-310935/2
Matrix: Water
Analysis Batch: 310935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/24/20 08:06	1

Lab Sample ID: LCS 180-310935/1
Matrix: Water
Analysis Batch: 310935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	284		mg/L		117	80 - 120

Lab Sample ID: 180-103810-12 DU
Matrix: Surface Water
Analysis Batch: 310935

Client Sample ID: SWC-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		146		mg/L		3	10

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

HPLC/IC

Analysis Batch: 310811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total/NA	Water	300.0	
180-103501-2	GWA-1	Total/NA	Ground Water	300.0	
180-103501-3	GWA-2	Total/NA	Ground Water	300.0	
180-103501-4	GWA-3	Total/NA	Ground Water	300.0	
180-103501-5	GWC-35	Total/NA	Ground Water	300.0	
180-103501-6	GWC-34	Total/NA	Ground Water	300.0	
180-103501-7	GWA-28	Total/NA	Ground Water	300.0	
180-103501-8	FB-1-3-10-20	Total/NA	Water	300.0	
180-103501-9	GWA-29	Total/NA	Ground Water	300.0	
180-103501-10	EB-1-3-10-20	Total/NA	Water	300.0	
180-103501-11	GWA-4	Total/NA	Ground Water	300.0	
MB 180-310811/51	Method Blank	Total/NA	Water	300.0	
LCS 180-310811/50	Lab Control Sample	Total/NA	Water	300.0	
180-103501-1 MS	Dup-1	Total/NA	Water	300.0	
180-103501-1 MSD	Dup-1	Total/NA	Water	300.0	

Analysis Batch: 310904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total/NA	Water	300.0	
180-103501-2	GWA-1	Total/NA	Ground Water	300.0	
180-103501-3	GWA-2	Total/NA	Ground Water	300.0	
180-103501-4	GWA-3	Total/NA	Ground Water	300.0	
180-103501-5	GWC-35	Total/NA	Ground Water	300.0	
180-103501-6	GWC-34	Total/NA	Ground Water	300.0	
180-103501-7	GWA-28	Total/NA	Ground Water	300.0	
180-103653-1	FB-2-3-12-20	Total/NA	Water	EPA 300.0 R2.1	
180-103653-2	EB-2-3-12-20	Total/NA	Water	EPA 300.0 R2.1	
180-103653-3	GWC-30	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-4	GWC-7	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-310904/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-310904/87	Method Blank	Total/NA	Water	300.0	
LCS 180-310904/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-310904/86	Lab Control Sample	Total/NA	Water	300.0	
180-103501-1 MS	Dup-1	Total/NA	Water	300.0	
180-103501-1 MSD	Dup-1	Total/NA	Water	300.0	

Analysis Batch: 311327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-6	GWC-33	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-7	GWC-13	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-8	GWC-24	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-9	GWC-25	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-10	GWC-27	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-11	GWC-26	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-311327/46	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311327/45	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 311429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-5	GWC-8	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-311429/43	Method Blank	Total/NA	Water	EPA 300.0 R2.1	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

HPLC/IC (Continued)

Analysis Batch: 311429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-311429/42	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103653-5 MS	GWC-8	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103653-5 MSD	GWC-8	Total/NA	Ground Water	EPA 300.0 R2.1	

Analysis Batch: 311491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-5	GWC-8	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-311491/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311491/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 311618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-1	GWC-9	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-311618/46	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311618/45	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 311725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-2	GWC-11	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-3	GWC-15	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-4	GWC-10	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-5	GWC-14	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-6	GWC-16	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-7	Dup-3	Total/NA	Water	EPA 300.0 R2.1	
180-103744-8	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-103744-9	GWC-6	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-10	GWC-5	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-11	GWC-31	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-12	EB-3-3-17-20	Total/NA	Water	EPA 300.0 R2.1	
180-103744-13	FB-3-3-17-20	Total/NA	Water	EPA 300.0 R2.1	
180-103744-14	GWC-18	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-15	GWC-17	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-311725/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311725/40	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103744-2 MS	GWC-11	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103744-2 MSD	GWC-11	Total/NA	Ground Water	EPA 300.0 R2.1	

Analysis Batch: 312143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-2	GWC-22	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-3	GWC-23	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-4	EB-4-3-18-20	Total/NA	Water	EPA 300.0 R2.1	
180-103810-5	FB-4-3-18-20	Total/NA	Water	EPA 300.0 R2.1	
180-103810-6	Dup-4	Total/NA	Water	EPA 300.0 R2.1	
180-103810-7	GWC-19	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-8	GWC-21	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-9	GWC-32	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-10	GWC-20	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-312143/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312143/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103810-2 MS	GWC-22	Total/NA	Ground Water	EPA 300.0 R2.1	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

HPLC/IC (Continued)

Analysis Batch: 312143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-2 MSD	GWC-22	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-10 MS	GWC-20	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-10 MSD	GWC-20	Total/NA	Ground Water	EPA 300.0 R2.1	

Analysis Batch: 312144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-312144/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312144/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103810-1 MS	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103810-1 MSD	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	

Analysis Batch: 312254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-11	SWC-8	Total/NA	Surface Water	EPA 300.0 R2.1	
180-103810-12	SWC-5	Total/NA	Surface Water	EPA 300.0 R2.1	
180-103810-13	SWC-7	Total/NA	Surface Water	EPA 300.0 R2.1	
180-103810-14	SWA-1	Total/NA	Surface Water	EPA 300.0 R2.1	
MB 180-312254/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312254/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 310197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total/NA	Water	7470A	
180-103501-2	GWA-1	Total/NA	Ground Water	7470A	
180-103501-3	GWA-2	Total/NA	Ground Water	7470A	
180-103501-4	GWA-3	Total/NA	Ground Water	7470A	
180-103501-7	GWA-28	Total/NA	Ground Water	7470A	
180-103501-8	FB-1-3-10-20	Total/NA	Water	7470A	
180-103501-9	GWA-29	Total/NA	Ground Water	7470A	
180-103501-10	EB-1-3-10-20	Total/NA	Water	7470A	
180-103501-11	GWA-4	Total/NA	Ground Water	7470A	
MB 180-310197/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310197/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 310256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total/NA	Water	EPA 7470A	310197
180-103501-2	GWA-1	Total/NA	Ground Water	EPA 7470A	310197
180-103501-3	GWA-2	Total/NA	Ground Water	EPA 7470A	310197
180-103501-4	GWA-3	Total/NA	Ground Water	EPA 7470A	310197
180-103501-7	GWA-28	Total/NA	Ground Water	EPA 7470A	310197
180-103501-8	FB-1-3-10-20	Total/NA	Water	EPA 7470A	310197
180-103501-9	GWA-29	Total/NA	Ground Water	EPA 7470A	310197
180-103501-10	EB-1-3-10-20	Total/NA	Water	EPA 7470A	310197
180-103501-11	GWA-4	Total/NA	Ground Water	EPA 7470A	310197
MB 180-310197/1-A	Method Blank	Total/NA	Water	EPA 7470A	310197
LCS 180-310197/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310197

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals

Prep Batch: 310482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-5	GWC-35	Total/NA	Ground Water	7470A	
180-103501-6	GWC-34	Total/NA	Ground Water	7470A	
MB 180-310482/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310482/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 310609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-1	FB-2-3-12-20	Total/NA	Water	7470A	
180-103653-2	EB-2-3-12-20	Total/NA	Water	7470A	
180-103653-4	GWC-7	Total/NA	Ground Water	7470A	
180-103653-5	GWC-8	Total/NA	Ground Water	7470A	
180-103653-6	GWC-33	Total/NA	Ground Water	7470A	
180-103653-7	GWC-13	Total/NA	Ground Water	7470A	
180-103653-8	GWC-24	Total/NA	Ground Water	7470A	
180-103653-9	GWC-25	Total/NA	Ground Water	7470A	
180-103653-10	GWC-27	Total/NA	Ground Water	7470A	
180-103653-11	GWC-26	Total/NA	Ground Water	7470A	
MB 180-310609/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310609/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 310647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-5	GWC-35	Total/NA	Ground Water	EPA 7470A	310482
180-103501-6	GWC-34	Total/NA	Ground Water	EPA 7470A	310482
180-103653-1	FB-2-3-12-20	Total/NA	Water	EPA 7470A	310609
180-103653-2	EB-2-3-12-20	Total/NA	Water	EPA 7470A	310609
180-103653-4	GWC-7	Total/NA	Ground Water	EPA 7470A	310609
180-103653-5	GWC-8	Total/NA	Ground Water	EPA 7470A	310609
180-103653-6	GWC-33	Total/NA	Ground Water	EPA 7470A	310609
180-103653-7	GWC-13	Total/NA	Ground Water	EPA 7470A	310609
180-103653-8	GWC-24	Total/NA	Ground Water	EPA 7470A	310609
180-103653-9	GWC-25	Total/NA	Ground Water	EPA 7470A	310609
180-103653-10	GWC-27	Total/NA	Ground Water	EPA 7470A	310609
180-103653-11	GWC-26	Total/NA	Ground Water	EPA 7470A	310609
MB 180-310482/1-A	Method Blank	Total/NA	Water	EPA 7470A	310482
MB 180-310609/1-A	Method Blank	Total/NA	Water	EPA 7470A	310609
LCS 180-310482/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310482
LCS 180-310609/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310609

Prep Batch: 310852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total Recoverable	Water	3005A	
180-103501-2	GWA-1	Total Recoverable	Ground Water	3005A	
180-103501-3	GWA-2	Total Recoverable	Ground Water	3005A	
180-103501-4	GWA-3	Total Recoverable	Ground Water	3005A	
180-103501-5	GWC-35	Total Recoverable	Ground Water	3005A	
180-103501-6	GWC-34	Total Recoverable	Ground Water	3005A	
180-103501-7	GWA-28	Total Recoverable	Ground Water	3005A	
180-103501-8	FB-1-3-10-20	Total Recoverable	Water	3005A	
180-103501-9	GWA-29	Total Recoverable	Ground Water	3005A	
180-103501-10	EB-1-3-10-20	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals (Continued)

Prep Batch: 310852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-11	GWA-4	Total Recoverable	Ground Water	3005A	
MB 180-310852/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-310852/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 310885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-3	GWC-30	Total/NA	Ground Water	7470A	
180-103744-1	GWC-9	Total/NA	Ground Water	7470A	
180-103744-2	GWC-11	Total/NA	Ground Water	7470A	
180-103744-3	GWC-15	Total/NA	Ground Water	7470A	
180-103744-8	Dup-2	Total/NA	Water	7470A	
180-103744-9	GWC-6	Total/NA	Ground Water	7470A	
180-103744-10	GWC-5	Total/NA	Ground Water	7470A	
MB 180-310885/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310885/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 310887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-4	GWC-10	Total/NA	Ground Water	7470A	
180-103744-5	GWC-14	Total/NA	Ground Water	7470A	
180-103744-6	GWC-16	Total/NA	Ground Water	7470A	
180-103744-7	Dup-3	Total/NA	Water	7470A	
180-103744-11	GWC-31	Total/NA	Ground Water	7470A	
180-103744-12	EB-3-3-17-20	Total/NA	Water	7470A	
180-103744-13	FB-3-3-17-20	Total/NA	Water	7470A	
180-103744-14	GWC-18	Total/NA	Ground Water	7470A	
180-103744-15	GWC-17	Total/NA	Ground Water	7470A	
MB 180-310887/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310887/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 311000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-3	GWC-30	Total/NA	Ground Water	EPA 7470A	310885
180-103744-1	GWC-9	Total/NA	Ground Water	EPA 7470A	310885
180-103744-2	GWC-11	Total/NA	Ground Water	EPA 7470A	310885
180-103744-3	GWC-15	Total/NA	Ground Water	EPA 7470A	310885
180-103744-4	GWC-10	Total/NA	Ground Water	EPA 7470A	310887
180-103744-5	GWC-14	Total/NA	Ground Water	EPA 7470A	310887
180-103744-6	GWC-16	Total/NA	Ground Water	EPA 7470A	310887
180-103744-7	Dup-3	Total/NA	Water	EPA 7470A	310887
180-103744-8	Dup-2	Total/NA	Water	EPA 7470A	310885
180-103744-9	GWC-6	Total/NA	Ground Water	EPA 7470A	310885
180-103744-10	GWC-5	Total/NA	Ground Water	EPA 7470A	310885
180-103744-11	GWC-31	Total/NA	Ground Water	EPA 7470A	310887
180-103744-12	EB-3-3-17-20	Total/NA	Water	EPA 7470A	310887
180-103744-13	FB-3-3-17-20	Total/NA	Water	EPA 7470A	310887
180-103744-14	GWC-18	Total/NA	Ground Water	EPA 7470A	310887
180-103744-15	GWC-17	Total/NA	Ground Water	EPA 7470A	310887
MB 180-310885/1-A	Method Blank	Total/NA	Water	EPA 7470A	310885
MB 180-310887/1-A	Method Blank	Total/NA	Water	EPA 7470A	310887
LCS 180-310885/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310885

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals (Continued)

Analysis Batch: 311000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-310887/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310887

Prep Batch: 311012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total/NA	Ground Water	7470A	
180-103810-2	GWC-22	Total/NA	Ground Water	7470A	
180-103810-3	GWC-23	Total/NA	Ground Water	7470A	
180-103810-4	EB-4-3-18-20	Total/NA	Water	7470A	
MB 180-311012/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311012/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 311030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-1	FB-2-3-12-20	Total Recoverable	Water	3005A	
180-103653-2	EB-2-3-12-20	Total Recoverable	Water	3005A	
180-103653-3	GWC-30	Total Recoverable	Ground Water	3005A	
180-103653-4	GWC-7	Total Recoverable	Ground Water	3005A	
180-103653-5	GWC-8	Total Recoverable	Ground Water	3005A	
180-103653-6	GWC-33	Total Recoverable	Ground Water	3005A	
180-103653-7	GWC-13	Total Recoverable	Ground Water	3005A	
180-103653-8	GWC-24	Total Recoverable	Ground Water	3005A	
180-103653-9	GWC-25	Total Recoverable	Ground Water	3005A	
180-103653-10	GWC-27	Total Recoverable	Ground Water	3005A	
180-103653-11	GWC-26	Total Recoverable	Ground Water	3005A	
MB 180-311030/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311030/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103653-4 MS	GWC-7	Total Recoverable	Ground Water	3005A	
180-103653-4 MSD	GWC-7	Total Recoverable	Ground Water	3005A	

Prep Batch: 311072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-1	GWC-9	Total Recoverable	Ground Water	3005A	
180-103744-2	GWC-11	Total Recoverable	Ground Water	3005A	
180-103744-3	GWC-15	Total Recoverable	Ground Water	3005A	
180-103744-4	GWC-10	Total Recoverable	Ground Water	3005A	
180-103744-5	GWC-14	Total Recoverable	Ground Water	3005A	
180-103744-6	GWC-16	Total Recoverable	Ground Water	3005A	
180-103744-7	Dup-3	Total Recoverable	Water	3005A	
180-103744-8	Dup-2	Total Recoverable	Water	3005A	
180-103744-9	GWC-6	Total Recoverable	Ground Water	3005A	
180-103744-10	GWC-5	Total Recoverable	Ground Water	3005A	
180-103744-11	GWC-31	Total Recoverable	Ground Water	3005A	
180-103744-12	EB-3-3-17-20	Total Recoverable	Water	3005A	
180-103744-13	FB-3-3-17-20	Total Recoverable	Water	3005A	
180-103744-14	GWC-18	Total Recoverable	Ground Water	3005A	
180-103744-15	GWC-17	Total Recoverable	Ground Water	3005A	
MB 180-311072/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311072/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103744-1 MS	GWC-9	Total Recoverable	Ground Water	3005A	
180-103744-1 MSD	GWC-9	Total Recoverable	Ground Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals

Prep Batch: 311074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total Recoverable	Ground Water	3005A	
180-103810-2	GWC-22	Total Recoverable	Ground Water	3005A	
180-103810-3	GWC-23	Total Recoverable	Ground Water	3005A	
180-103810-4	EB-4-3-18-20	Total Recoverable	Water	3005A	
180-103810-5	FB-4-3-18-20	Total Recoverable	Water	3005A	
180-103810-6	Dup-4	Total Recoverable	Water	3005A	
180-103810-7	GWC-19	Total Recoverable	Ground Water	3005A	
180-103810-8	GWC-21	Total Recoverable	Ground Water	3005A	
180-103810-9	GWC-32	Total Recoverable	Ground Water	3005A	
180-103810-10	GWC-20	Total Recoverable	Ground Water	3005A	
180-103810-11	SWC-8	Total Recoverable	Surface Water	3005A	
180-103810-12	SWC-5	Total Recoverable	Surface Water	3005A	
180-103810-13	SWC-7	Total Recoverable	Surface Water	3005A	
180-103810-14	SWA-1	Total Recoverable	Surface Water	3005A	
MB 180-311074/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311074/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103810-1 MS	GWC-12	Total Recoverable	Ground Water	3005A	
180-103810-1 MSD	GWC-12	Total Recoverable	Ground Water	3005A	

Analysis Batch: 311296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total Recoverable	Water	EPA 6020	310852
180-103501-2	GWA-1	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-3	GWA-2	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-4	GWA-3	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-5	GWC-35	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-6	GWC-34	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-7	GWA-28	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-8	FB-1-3-10-20	Total Recoverable	Water	EPA 6020	310852
180-103501-9	GWA-29	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-10	EB-1-3-10-20	Total Recoverable	Water	EPA 6020	310852
180-103501-11	GWA-4	Total Recoverable	Ground Water	EPA 6020	310852
MB 180-310852/1-A	Method Blank	Total Recoverable	Water	EPA 6020	310852
LCS 180-310852/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	310852

Analysis Batch: 311297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total/NA	Ground Water	EPA 7470A	311012
180-103810-2	GWC-22	Total/NA	Ground Water	EPA 7470A	311012
180-103810-3	GWC-23	Total/NA	Ground Water	EPA 7470A	311012
180-103810-4	EB-4-3-18-20	Total/NA	Water	EPA 7470A	311012
MB 180-311012/1-A	Method Blank	Total/NA	Water	EPA 7470A	311012
LCS 180-311012/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311012

Prep Batch: 311413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-5	FB-4-3-18-20	Total/NA	Water	7470A	
180-103810-6	Dup-4	Total/NA	Water	7470A	
180-103810-7	GWC-19	Total/NA	Ground Water	7470A	
180-103810-8	GWC-21	Total/NA	Ground Water	7470A	
180-103810-9	GWC-32	Total/NA	Ground Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals (Continued)

Prep Batch: 311413 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-10	GWC-20	Total/NA	Ground Water	7470A	
MB 180-311413/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311413/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 311438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total Recoverable	Water	EPA 6020	310852
180-103501-2	GWA-1	Total Recoverable	Ground Water	EPA 6020	310852
MB 180-310852/1-A	Method Blank	Total Recoverable	Water	EPA 6020	310852
LCS 180-310852/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	310852

Analysis Batch: 311443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-4	GWA-3	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-5	GWC-35	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-6	GWC-34	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-7	GWA-28	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-8	FB-1-3-10-20	Total Recoverable	Water	EPA 6020	310852
180-103501-9	GWA-29	Total Recoverable	Ground Water	EPA 6020	310852
180-103501-10	EB-1-3-10-20	Total Recoverable	Water	EPA 6020	310852
180-103501-11	GWA-4	Total Recoverable	Ground Water	EPA 6020	310852

Prep Batch: 311684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-11	SWC-8	Total/NA	Surface Water	7470A	
180-103810-12	SWC-5	Total/NA	Surface Water	7470A	
180-103810-13	SWC-7	Total/NA	Surface Water	7470A	
180-103810-14	SWA-1	Total/NA	Surface Water	7470A	
MB 180-311684/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311684/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-103810-11 MS	SWC-8	Total/NA	Surface Water	7470A	
180-103810-11 MSD	SWC-8	Total/NA	Surface Water	7470A	

Analysis Batch: 311711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-5	FB-4-3-18-20	Total/NA	Water	EPA 7470A	311413
180-103810-6	Dup-4	Total/NA	Water	EPA 7470A	311413
180-103810-7	GWC-19	Total/NA	Ground Water	EPA 7470A	311413
180-103810-8	GWC-21	Total/NA	Ground Water	EPA 7470A	311413
180-103810-9	GWC-32	Total/NA	Ground Water	EPA 7470A	311413
180-103810-10	GWC-20	Total/NA	Ground Water	EPA 7470A	311413
MB 180-311413/1-A	Method Blank	Total/NA	Water	EPA 7470A	311413
LCS 180-311413/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311413

Analysis Batch: 311830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-11	SWC-8	Total/NA	Surface Water	EPA 7470A	311684
180-103810-12	SWC-5	Total/NA	Surface Water	EPA 7470A	311684
180-103810-13	SWC-7	Total/NA	Surface Water	EPA 7470A	311684
180-103810-14	SWA-1	Total/NA	Surface Water	EPA 7470A	311684
MB 180-311684/1-A	Method Blank	Total/NA	Water	EPA 7470A	311684

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals (Continued)

Analysis Batch: 311830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-311684/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311684
180-103810-11 MS	SWC-8	Total/NA	Surface Water	EPA 7470A	311684
180-103810-11 MSD	SWC-8	Total/NA	Surface Water	EPA 7470A	311684

Analysis Batch: 311877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-3	GWA-2	Total Recoverable	Ground Water	EPA 6020	310852

Analysis Batch: 311959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-1	FB-2-3-12-20	Total Recoverable	Water	EPA 6020B	311030
180-103653-2	EB-2-3-12-20	Total Recoverable	Water	EPA 6020B	311030
180-103653-3	GWC-30	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-4	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-5	GWC-8	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-6	GWC-33	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-7	GWC-13	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-8	GWC-24	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-9	GWC-25	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-10	GWC-27	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-11	GWC-26	Total Recoverable	Ground Water	EPA 6020B	311030
MB 180-311030/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311030
LCS 180-311030/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311030
180-103653-4 MS	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311030
180-103653-4 MSD	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311030

Analysis Batch: 312440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-2	GWC-22	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-3	GWC-23	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-4	EB-4-3-18-20	Total Recoverable	Water	EPA 6020B	311074
180-103810-5	FB-4-3-18-20	Total Recoverable	Water	EPA 6020B	311074
180-103810-6	Dup-4	Total Recoverable	Water	EPA 6020B	311074
180-103810-7	GWC-19	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-8	GWC-21	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-9	GWC-32	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-10	GWC-20	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-11	SWC-8	Total Recoverable	Surface Water	EPA 6020B	311074
180-103810-12	SWC-5	Total Recoverable	Surface Water	EPA 6020B	311074
180-103810-13	SWC-7	Total Recoverable	Surface Water	EPA 6020B	311074
180-103810-14	SWA-1	Total Recoverable	Surface Water	EPA 6020B	311074
MB 180-311074/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311074
LCS 180-311074/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311074
180-103810-1 MS	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311074
180-103810-1 MSD	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311074

Analysis Batch: 312557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-1	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-2	GWC-11	Total Recoverable	Ground Water	EPA 6020B	311072

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

Metals (Continued)

Analysis Batch: 312557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-3	GWC-15	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-4	GWC-10	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-5	GWC-14	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-6	GWC-16	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-7	Dup-3	Total Recoverable	Water	EPA 6020B	311072
180-103744-8	Dup-2	Total Recoverable	Water	EPA 6020B	311072
180-103744-9	GWC-6	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-10	GWC-5	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-11	GWC-31	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-12	EB-3-3-17-20	Total Recoverable	Water	EPA 6020B	311072
180-103744-13	FB-3-3-17-20	Total Recoverable	Water	EPA 6020B	311072
180-103744-14	GWC-18	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-15	GWC-17	Total Recoverable	Ground Water	EPA 6020B	311072
MB 180-311072/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311072
LCS 180-311072/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311072
180-103744-1 MS	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-1 MSD	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311072

Analysis Batch: 313035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-9	GWC-6	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-10	GWC-5	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-11	GWC-31	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-12	EB-3-3-17-20	Total Recoverable	Water	EPA 6020B	311072
180-103744-13	FB-3-3-17-20	Total Recoverable	Water	EPA 6020B	311072
180-103744-14	GWC-18	Total Recoverable	Ground Water	EPA 6020B	311072
180-103744-15	GWC-17	Total Recoverable	Ground Water	EPA 6020B	311072

General Chemistry

Analysis Batch: 309880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-1	Dup-1	Total/NA	Water	SM 2540C	
180-103501-5	GWC-35	Total/NA	Ground Water	SM 2540C	
MB 180-309880/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-309880/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-2	GWA-1	Total/NA	Ground Water	SM 2540C	
180-103501-3	GWA-2	Total/NA	Ground Water	SM 2540C	
180-103501-4	GWA-3	Total/NA	Ground Water	SM 2540C	
180-103501-6	GWC-34	Total/NA	Ground Water	SM 2540C	
180-103501-7	GWA-28	Total/NA	Ground Water	SM 2540C	
180-103501-8	FB-1-3-10-20	Total/NA	Water	SM 2540C	
180-103501-9	GWA-29	Total/NA	Ground Water	SM 2540C	
180-103501-10	EB-1-3-10-20	Total/NA	Water	SM 2540C	
180-103501-11	GWA-4	Total/NA	Ground Water	SM 2540C	
MB 180-310198/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310198/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

General Chemistry

Analysis Batch: 310447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-1	FB-2-3-12-20	Total/NA	Water	SM 2540C	
180-103653-2	EB-2-3-12-20	Total/NA	Water	SM 2540C	
180-103653-3	GWC-30	Total/NA	Ground Water	SM 2540C	
180-103653-4	GWC-7	Total/NA	Ground Water	SM 2540C	
180-103653-6	GWC-33	Total/NA	Ground Water	SM 2540C	
180-103653-7	GWC-13	Total/NA	Ground Water	SM 2540C	
180-103653-8	GWC-24	Total/NA	Ground Water	SM 2540C	
180-103653-9	GWC-25	Total/NA	Ground Water	SM 2540C	
MB 180-310447/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310447/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-5	GWC-8	Total/NA	Ground Water	SM 2540C	
180-103653-10	GWC-27	Total/NA	Ground Water	SM 2540C	
180-103653-11	GWC-26	Total/NA	Ground Water	SM 2540C	
MB 180-310448/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310448/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-1	GWC-9	Total/NA	Ground Water	SM 2540C	
180-103744-2	GWC-11	Total/NA	Ground Water	SM 2540C	
180-103744-3	GWC-15	Total/NA	Ground Water	SM 2540C	
180-103744-7	Dup-3	Total/NA	Water	SM 2540C	
180-103744-8	Dup-2	Total/NA	Water	SM 2540C	
180-103744-9	GWC-6	Total/NA	Ground Water	SM 2540C	
180-103744-10	GWC-5	Total/NA	Ground Water	SM 2540C	
MB 180-310664/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310664/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103744-7 DU	Dup-3	Total/NA	Water	SM 2540C	
180-103744-10 DU	GWC-5	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 310666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-5	GWC-14	Total/NA	Ground Water	SM 2540C	
180-103744-6	GWC-16	Total/NA	Ground Water	SM 2540C	
180-103744-11	GWC-31	Total/NA	Ground Water	SM 2540C	
180-103744-12	EB-3-3-17-20	Total/NA	Water	SM 2540C	
180-103744-13	FB-3-3-17-20	Total/NA	Water	SM 2540C	
180-103744-14	GWC-18	Total/NA	Ground Water	SM 2540C	
180-103744-15	GWC-17	Total/NA	Ground Water	SM 2540C	
MB 180-310666/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310666/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103744-5 DU	GWC-14	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 310668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-4	GWC-10	Total/NA	Ground Water	SM 2540C	
MB 180-310668/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310668/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-103501-1

General Chemistry (Continued)

Analysis Batch: 310668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103744-4 DU	GWC-10	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 310714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-1	GWC-12	Total/NA	Ground Water	SM 2540C	
180-103810-2	GWC-22	Total/NA	Ground Water	SM 2540C	
180-103810-3	GWC-23	Total/NA	Ground Water	SM 2540C	
180-103810-4	EB-4-3-18-20	Total/NA	Water	SM 2540C	
180-103810-5	FB-4-3-18-20	Total/NA	Water	SM 2540C	
180-103810-6	Dup-4	Total/NA	Water	SM 2540C	
180-103810-7	GWC-19	Total/NA	Ground Water	SM 2540C	
180-103810-8	GWC-21	Total/NA	Ground Water	SM 2540C	
MB 180-310714/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310714/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103810-1 DU	GWC-12	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 310933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-9	GWC-32	Total/NA	Ground Water	SM 2540C	
180-103810-10	GWC-20	Total/NA	Ground Water	SM 2540C	
MB 180-310933/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310933/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103810-9 DU	GWC-32	Total/NA	Ground Water	SM 2540C	

Analysis Batch: 310934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-11	SWC-8	Total/NA	Surface Water	SM 2540C	
180-103810-13	SWC-7	Total/NA	Surface Water	SM 2540C	
180-103810-14	SWA-1	Total/NA	Surface Water	SM 2540C	
MB 180-310934/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310934/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103810-12	SWC-5	Total/NA	Surface Water	SM 2540C	
MB 180-310935/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310935/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103810-12 DU	SWC-5	Total/NA	Surface Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 310221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103501-2	GWA-1	Total/NA	Ground Water	Field Sampling	
180-103501-3	GWA-2	Total/NA	Ground Water	Field Sampling	
180-103501-4	GWA-3	Total/NA	Ground Water	Field Sampling	
180-103501-5	GWC-35	Total/NA	Ground Water	Field Sampling	
180-103501-6	GWC-34	Total/NA	Ground Water	Field Sampling	
180-103501-7	GWA-28	Total/NA	Ground Water	Field Sampling	
180-103501-9	GWA-29	Total/NA	Ground Water	Field Sampling	
180-103501-11	GWA-4	Total/NA	Ground Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill


Job ID: 180-103501-1

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103653-3	GWC-30	Total/NA	Ground Water	Field Sampling	
180-103653-4	GWC-7	Total/NA	Ground Water	Field Sampling	
180-103653-5	GWC-8	Total/NA	Ground Water	Field Sampling	
180-103653-6	GWC-33	Total/NA	Ground Water	Field Sampling	
180-103653-7	GWC-13	Total/NA	Ground Water	Field Sampling	
180-103653-8	GWC-24	Total/NA	Ground Water	Field Sampling	
180-103653-9	GWC-25	Total/NA	Ground Water	Field Sampling	
180-103653-10	GWC-27	Total/NA	Ground Water	Field Sampling	
180-103653-11	GWC-26	Total/NA	Ground Water	Field Sampling	
180-103744-1	GWC-9	Total/NA	Ground Water	Field Sampling	
180-103744-2	GWC-11	Total/NA	Ground Water	Field Sampling	
180-103744-3	GWC-15	Total/NA	Ground Water	Field Sampling	
180-103744-4	GWC-10	Total/NA	Ground Water	Field Sampling	
180-103744-5	GWC-14	Total/NA	Ground Water	Field Sampling	
180-103744-6	GWC-16	Total/NA	Ground Water	Field Sampling	
180-103744-9	GWC-6	Total/NA	Ground Water	Field Sampling	
180-103744-10	GWC-5	Total/NA	Ground Water	Field Sampling	
180-103744-11	GWC-31	Total/NA	Ground Water	Field Sampling	
180-103744-14	GWC-18	Total/NA	Ground Water	Field Sampling	
180-103744-15	GWC-17	Total/NA	Ground Water	Field Sampling	
180-103810-1	GWC-12	Total/NA	Ground Water	Field Sampling	
180-103810-2	GWC-22	Total/NA	Ground Water	Field Sampling	
180-103810-3	GWC-23	Total/NA	Ground Water	Field Sampling	
180-103810-7	GWC-19	Total/NA	Ground Water	Field Sampling	
180-103810-8	GWC-21	Total/NA	Ground Water	Field Sampling	
180-103810-9	GWC-32	Total/NA	Ground Water	Field Sampling	
180-103810-10	GWC-20	Total/NA	Ground Water	Field Sampling	
180-103810-11	SWC-8	Total/NA	Surface Water	Field Sampling	
180-103810-12	SWC-5	Total/NA	Surface Water	Field Sampling	
180-103810-13	SWC-7	Total/NA	Surface Water	Field Sampling	
180-103810-14	SWA-1	Total/NA	Surface Water	Field Sampling	

Chain of Custody Record

Client Information		Sampler: <u>O. FUQUA</u>		Lab PM: <u>Bortot, Veronica</u>		Carrier Tracking No(s):		COC No:		
Client Contact: <u>JoJu Abraham</u>		Phone: <u>(770) 594-5998</u>		E-Mail: <u>veronica.bortot@testamericainc.com</u>				Page:		
Company: <u>Southern Company</u>		Due Date Requested:		Analysis Requested				Job #:		
Address: <u>241 Ralph McGill Blvd SE B10185</u>		TAT Requested (days):						Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid M - Hexane N - None O - AshNaO2 P - Na2O4S ydrate		
City: <u>Atlanta</u>		PO #: <u>SCS10347656</u>								
State/Zip: <u>GA, 30308</u>		WO #: <u>18019922</u>						<u>180-103501 Chain of Custody</u>		
Phone: <u>412-963-7058</u>		Project #: <u>18019922</u>								
Email: <u>JAbraham@southernco.com</u>		SSOW#:								
Site: <u>Wansley Landfill</u>										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=TISSUE, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	AP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg	Cl, F, SO ₄ & TDS (EPA 3000 D & SM 2540C)	Total Number	Special Instructions/Note:
DUP-1	3-10-20	1	G	Water	N	N	✓	✓	2	
GWA-1	3-10-20	1155	G	Water	N	N	✓	✓	2	pH = 5.38
GWA-2	3-10-20	1335	G	Water	N	N	✓	✓	2	pH = 5.72
GWA-3	3-10-20	1515	G	Water	N	N	✓	✓	2	pH = 5.52
GWC-35	3-11-20	1035	G	Water	N	N	✓	✓	2	pH = 5.62
GWC-34	3-11-20	1149	G	Water	N	N	✓	✓	1	pH = 5.93
				Water						
				Water						
				Water						
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Special Instructions/QC Requirements:										
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <u>[Signature]</u> Date/Time: <u>3-11-20 / 1640</u> Company: <u>ACC</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>3-11-20 / 1641</u> Company: <u>ACC</u> Relinquished by: _____ Date/Time: _____ Company: _____										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: _____										

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State Zip: GA, 30308 Phone: [Redacted] Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill Site: Wansley Landfill		Sampler: JBeechford Lab PM: Bortot, Veronica Phone: 770-544-5448 E-Mail: veronica.bortot@testamericainc.com		COC No: Page: Job #:		Carrier Tracking No(s):	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW#:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Total Number of Containers	
Sample Identification GWA-28 FB-1-3-10-20 GWA-29 FB-1-3-10-20 GWA-4		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) AP III and State Permit Metals (EPA 6020 & 7470): As, B, BB, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg Cl, F, SO4 & TDS (EPA 3000 & SM 2540C)		Special Instructions/Note: 23 PH=6.05 2 23 PH=5.75 2 23 PH=6.24	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Empty Kit Relinquished by:	
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 3-11-20 / 1640 Date/Time: 3-11-20 / 1641 Date/Time:		Received by: [Signature] Received by: [Signature] Received by: [Signature]		Date/Time: 3-11-20 / 1648 Date/Time: 3-12-20 Date/Time: 908	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: ACC Company: Company Company: Company	



Chain of Custody Record

Client Information		Sampler: O. Fuquea		Lab PM: Bortol, Veronica		Carrier Tracking No(s):		COOC No:													
Client Contact: JoJu Abraham		Phone: (770) 594-5998		E-Mail: veronica.bortol@testamericainc.com				Page:													
Company: Southern Company								Job #:													
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:													
City: Atlanta		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:													
State, Zip: GA, 30308		PO #: SCS10347656						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)													
Phone:		WO #:						Special Instructions/Note:													
Email: JAbraham@southerco.com		Project #: 18019922																			
Project Name: CCR - Plant Wansley Landfill		SOW#:																			
Site: Wansley Landfill																					
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	AP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg	CI, F, SO ₂ , & TDS (EPA 300.0 & SM 2540C)	D	N	N										
FB-2-3-12-20	3-12-20	1200	G	Water	NN	✓	✓														
EB-2-3-12-20	3-12-20	1450	G	Water	NN	✓	✓														
GWC-30	3-11-20	1440	G	Water	NN	✓	✓														
GWC-7	3-12-20	1100	G	Water	NN	✓	✓														
GWC-8	3-12-20	1715	G	Water	NN	✓	✓														
GWC-33	3-12-20	1324	G	Water	NN	✓	✓														
GWC-13	3-12-20	1435	G	Water	NN	✓	✓														
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Law		180-103653 Chain of Custody													
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Time:		Date:		Method of Shipment:													
Relinquished by: <i>[Signature]</i>		Date/Time: 3/13/20 1139		Company: ACU		Received by: <i>[Signature]</i>		Date/Time: 3/13/20 1139		Company: SWL											
Relinquished by: <i>[Signature]</i>		Date/Time: 3/13/20 1139		Company: SWL		Received by: <i>[Signature]</i>		Date/Time: 3/16/2020 0900		Company: SWL											
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time:		Company:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																	



Client Information Client Contact: JoJu Abraham Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: SCS10347656 Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill Site: Wansley Landfill		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carner Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW#:		Analysis Requested	
Sample Identification 6WC-24 6WC-25 6WC-2A 6WC-26		Total Number of Containers	
Sample Date 3-12-20 3-12-20 3-12-20 3-13-20	Sample Time 1135 1325 1455 0910	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) APP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Bi, Br, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Other:
Sample Type (C=comp, G=grab) 6 6 6 6	Matrix (W=water, S=solid, O=wastobio, BT=Tissue, A=Air) Water Water Water Water	Special Instructions/Note: PH=5.33 PH=6.40 PH=5.36 PH=5.52	Special Instructions/Note: PH=5.33 PH=6.40 PH=5.36 PH=5.52
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Received by: [Signature] Received by: [Signature] Received by: [Signature]	
Date/Time: 3/13/20 11:39 Date/Time: 3/13/20 11:35a Date/Time:		Date/Time: 3/13/20 11:39a Date/Time: 3/16/2020 0900 Date/Time:	
Company: Southern Company Company: Southern Company Company: Southern Company		Company: Southern Company Company: Southern Company Company: Southern Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks:			



Client Information Client Contact: JoJu Abraham Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: (770) 544-5948 PO #: SCS10347656 WO #: 18019922 Project #: 18019922 SSO#: Wansley Landfill		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): ACC to TA ATL	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: 18019922 Project #: 18019922 SSO#: Wansley Landfill		Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) App III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Ti, V, Zn, Hg Cl, F, SO ₄ & TDS EPA 300.0 & SM 2540C	
Sample Identification GWC-9 GWC-11 GWC-15 GWC-10 GWC-14 GWC-16 DUP-3	Sample Date 3-16-20 3-16-20 3-16-20 3-17-20 3-17-20 3-17-20 3-17-20	Sample Time 1133 1427 1531 1015 1350 1456 /	Sample Type (C=Comp, G=grab) 6 6 6 6 6 6 6
Matrix (W=water, S=solid, O=waste/oil, BT=TISSUE, A=Air) Water Water Water Water Water Water Water Water Water		Preservation Code: Water Water Water Water Water Water Water Water Water	
Special Instructions/Note: pH=5.80 pH=5.92 pH=6.58 pH=5.96 pH=5.63 pH=6.36		Total Number of Containers 2 2 2 2 2 2 2	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - Ash/NaO2 P - Na2CO3 Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecathylate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>[Signature]</i>		Date/Time: 3-18-20 / 1620	
Relinquished by: <i>[Signature]</i>		Date/Time: 3-18-20 / 1627	
Relinquished by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	
Received by: <i>[Signature]</i>		Date/Time: 3-18-20 10:20	
Received by: <i>[Signature]</i>		Date/Time: 3/19/20 8:30	
Received by:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks:		Method of Shipment:	
Sample Disposal (A fee may be assessed if sam) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab			
Special Instructions/QC Requirements: 180-103744 Chain of Custody			



Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: SCS10347686 Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill Site: Wansley Landfill		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): ACC 70 TA ATL		COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347686 WO #: Project #: 18019922 SSOW#:		Analysis Requested			
Sample Identification Dup-2 GWC-6 GWC-5 GWC-31 FB-3-3-17-20 FB-3-3-17-20 GWC-18 GWC-17		Sample Date 3-16-20 3-16-20 3-16-20 3-17-20 3-17-20 3-17-20 3-17-20		Sample Time / 1120 1245 1000 1040 1300 1310 1430	
Sample Type (C=Comp, G=grab) G G G G G G G		Matrix (W=water, S=solid, O=wasteloid, BT=tissue, A=Air) Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) Yes Yes Yes Yes Yes Yes Yes Yes	
Perform MS/MSD (Yes or No) Yes Yes Yes Yes Yes Yes Yes Yes		AP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Tl, V, Zn, Hg Cr, Mn, SO ₄ , & TDS (EPA 300.0 & SM 2540C)		Total Number of Containers 2 2 2 2 2 2 2 2	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ S ₂ O ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Special Instructions/Note: pH=5.86 pH=6.35 pH=6.15 pH=5.88 pH=6.09			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: <i>JoJu Abraham</i>		Date: 3-16-20 / 1620		Company: ACC	
Relinquished by: <i>JoJu Abraham</i>		Date: 3-16-20 / 1620		Company: ACC	
Relinquished by: <i>JoJu Abraham</i>		Date: 3-18-20 / 1621		Company: ACC	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					





Environment Testing
TestAmerica

ORIGIN ID: ILIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTAMERICA
 5500 McDONOUGH DRIVE
 SUITE C-10
 NORCROSS, GA 30093
 UNITED STATES US

SHIP DATE: 18MAR20
 ACTWGT: 59.35 LB
 CAD: 859116/CAFE3312

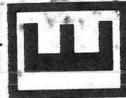
BILL RECIPIENT

10 **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
 REF: ACC



FedEx
Express



THU - 19 MAR 3:00P
 STANDARD OVERNIGHT

1 of 4

TRK# 1516 9323 1962
 # MASTER ##

NA AGCA

Uncorrected temp
 Thermometer ID

5.4
 17

CF Initials

PT-WI-SR-001 effective 11/8/18



1516 9323 1962
 PA-US
 15238
 PIT

Part # 159469-434 RIT EXP 07/20



Environment Testing
TestAmerica

N ID: ILIYA (678) 966-9991
 E TAYLOR
 INS TESTAMERICA
 McDONOUGH DRIVE
 C-10
 OSS, GA 30093
 D STATES US

SHIP DATE: 18MAR20
 ACTWGT: 59.35 LB
 CAD: 859116/CAFE3312

BILL RECIPIENT

SAMPLE RECIEVING
JROFINS TESTAMERICA PITTSBURGH
11 ALPHA DR.
IDC PARK
PITTSBURGH PA 15238

963-7068
 ACC



FedEx
Express



THU - 19 MAR 3:00P
 STANDARD OVERNIGHT

4 of 4

1516 9323 1995
 # 1516 9323 1962

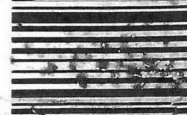
A AGCA

Uncorrected temp

Thermometer ID

CF Initials


PT-WI-SR-001 effective 11/8/18



1516 9323 1995
 PA-US
 15238
 PIT

Chain of Custody Record

681-Atlanta

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley Landfill - Surface Waters Site: Wansley Landfill		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Phone: 770 544 - 5495 Sampler: O. FOUQUEA		Carrier Tracking No(s): COC No.: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #:		Analysis Requested  180-103810 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification GWC-12 GWC-22 GWC-23 EB-4-3-18-20 FB-4-3-18-20 DIP-4 GWC-19 GWC-21 GWC-32 GWC-20		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) AP III and State Permit Metals (EPA 6020 & 7470): As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Ti, V, Zn, Hg Cl, F, SO4 & TDS EPA 300.0 & SM 2540C		Total Number of Containers 2 2 2 2 2 2 2 2 2 2	
Sample Date 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20 3-18-20		Sample Time 1135 1143 1336 1330 1335 1240 1450 1100 1410		Sample Type (C=Comp, G=grab) G G G G G G G G G G	
Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) Water Water Water Water Water Water Water Water Water Water		Preservation Code: N N N N N N N N N N		Special Instructions/Note: pH = 7.55 pH = 6.85 pH = 6.06 pH = 5.71 pH = 5.45 pH = 6.13 pH = 6.16	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: <input type="checkbox"/> 1, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Taylor Goff		Date/Time: 3-19-20/16:10		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 3-19-20/16:20		Received by: [Signature] Company: ACC	
Relinquished by: [Signature]		Date/Time: 3-19-20		Received by: [Signature] Company: EHL	
Relinquished by: [Signature]		Date/Time:		Received by: [Signature] Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: [Redacted] Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill - Surface Waters Site: Wansley Landfill		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Camer Tracking No(s): Phone: (770) 594-5998 PO #: SCS10347656 WO #: [Redacted] Project #: 18019922 SSOW #: [Redacted]				
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SSOW #:		Analysis Requested Perform M/MSD (Yes or No) Field Filtered Sample (Yes or No) AP III and State Permit Metals (EPA 6020 & 7470): As Pb Ba Cd Cr Cu Ni Pb Se Ag TI V Zn Hg Cl F SO ₄ & TDS (EPA 300.0 & SM 2540C)				
Sample Identification SWC-8 SWC-5 SWC-7 SWA-1	Sample Date 3-19-20 3-19-20 3-19-20 3-19-20	Sample Time 1013 1025 1051 1114	Sample Type (C=Comp, G=grab) G G G G	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water	Preservation Code: PH=6.37 PH=6.75 PH=6.59 PH=7.01	Special Instructions/Note: Total Number of containers 2 2 2 2
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by: Relinquished by: Taylor Gold Date/Time: 3-19-20/16:20 Relinquished by: [Signature] Date/Time: 3/19/20 Relinquished by: [Signature] Date/Time: 3/19/20		Method of Shipment: Received by: [Signature] 3/19/20 Date/Time: 3/19/20 Received by: [Signature] 3/23/20 Date/Time: 3/23/20 Received by: [Signature] Date/Time:				
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103501-1

Login Number: 103501

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103501-1

Login Number: 103653

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103501-1

Login Number: 103744

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103501-1

Login Number: 103810

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Wansley Landfill

March 2020

Georgia Power Company – Plant Wansley Landfill

Quality Control Review of Analytical Data – March 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater and surface water samples collected at Plant Wansley Landfill (LF) between March 10, 2020 and March 19, 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.

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 6020/6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), and Solids in Water (Standard Methods 2540C).

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.

Field Precision: Field goals for precision were met, with the exceptions of Fluoride and Sulfate on GWC-6 (180-103744-9), GWC-14 (180-103744-5), and GWC-19 (180-103810-7), Chloride on GWC-6 (180-103744-9) and GWC-14 (180-103744-5), Cobalt on GWC-19 (180-103810-7), Thallium on GWA-2 (180-103501-3), and Vanadium on GWC-19 (180-103810-7) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, with the exception of Fluoride on GWC-11 (180-103744-2) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

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 Total Dissolved Solids (TDS) on GWC-30 (108-103653-3) 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.

- Samples GWA-2 (180-103501-3) and DUP-1 (180-103501-1) were qualified as estimated (J) for Thallium as the field relative percent difference (RPD) exceeded QC criteria (95.65% above limit of 25).
- Samples GWC-6 (180-103744-9) and DUP-2 (180-103744-8) were qualified as estimated (J) for Chloride, Fluoride, and Sulfate as the respective field RPDs exceeded QC criteria (65.75%, 33.60%, and 115.79% above limit of 25).
- Samples GWC-14 (180-103744-5) and DUP-3 (180-103744-7) were qualified as estimated (J) for Chloride, Fluoride, and Sulfate as the respective field RPDs exceeded QC criteria (183.69%, 48.65%, and 37.62% above limit of 25).
- Samples GWC-19 (180-103810-7) and DUP-4 (180-103810-6) were qualified as estimated (J) for Fluoride, Sulfate, Cobalt, and Vanadium as the respective field RPDs exceeded QC criteria (36.52%, 50.00%, 43.90%, and 37.04% above limit of 25).
- Sample GWC-11 (180-103744-2) was qualified as estimated (J) for Fluoride as the associated matrix spike recovery was below the QC criteria (78% below the range of 80-120).
- Thallium results in SDG 103744 were qualified as non-detect (U) due to this analyte being detected at a similar concentration in the associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Sample GWC-30 (180-103653-3) was qualified as estimated (H) for TDS as the analysis was performed outside the method holding time (8th day past holding time of 7 days).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Wansley LF sampled between March 10, 2020 and March 19, 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 – Plant Wansley Landfill

Sample Summary Table – March 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
103501	DUP-1	3/10/2020	180-103501-1	GW	FD (GWA-2)	X	X	X	
103501	GWA-1	3/10/2020	180-103501-2	GW		X	X	X	
103501	GWA-2	3/10/2020	180-103501-3	GW		X	X	X	
103501	GWA-3	3/10/2020	180-103501-4	GW		X	X	X	
103501	GWC-35	3/10/2020	180-103501-5	GW		X	X	X	
103501	GWC-34	3/10/2020	180-103501-6	GW		X	X	X	
103501	GWA-28	3/10/2020	108-103501-7	GW		X	X	X	
103501	FB-1-3-10-20	3/10/2020	180-103501-8	WQ	FB	X	X	X	
103501	GWA-29	3/10/2020	180-103501-9	GW		X	X	X	
103501	EB-1-3-10-20	3/10/2020	180-103501-10	WQ	EB	X	X	X	
103501	GWA-4	3/10/2020	180-103501-11	GW		X	X	X	
103653	FB-2-3-12-20	3/12/2020	180-103653-1	WQ	FB	X	X	X	
103653	EB-2-3-12-20	3/12/2020	180-103653-2	WQ	EB	X	X	X	
103653	GWC-30	3/12/2020	180-103653-3	GW		X	X	X	
103653	GWC-7	3/12/2020	180-103653-4	GW		X	X	X	
103653	GWC-8	3/12/2020	180-103653-5	GW		X	X	X	
103653	GWC-33	3/12/2020	180-103653-6	GW		X	X	X	
103653	GWC-13	3/12/2020	180-103653-7	GW		X	X	X	
103653	GWC-24	3/12/2020	180-103653-8	GW		X	X	X	
103653	GWC-25	3/12/2020	180-103653-9	GW		X	X	X	
103653	GWC-27	3/12/2020	180-103653-10	GW		X	X	X	
103653	GWC-26	3/13/2020	180-103653-11	GW		X	X	X	
103744	GWC-9	3/16/2020	180-103744-1	GW		X	X	X	
103744	GWC-11	3/16/2020	180-103744-2	GW		X	X	X	
103744	GWC-15	3/16/2020	180-103744-3	GW		X	X	X	
103744	GWC-10	3/17/2020	180-103744-4	GW		X	X	X	
103744	GWC-14	3/17/2020	180-103744-5	GW		X	X	X	
103744	GWC-16	3/17/2020	180-103744-6	GW		X	X	X	
103744	DUP-3	3/17/2020	180-103744-7	GW	FD (GWC-14)	X	X	X	
103744	DUP-2	3/16/2020	180-103744-8	GW	FD (GWC-6)	X	X	X	

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

SW – Surface Water

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 1 (continued)

Georgia Power Company – Plant Wansley Landfill

Sample Summary Table – March 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
103744	GWC-6	3/16/2020	180-103744-9	GW		X	X	X	
103744	GWC-5	3/16/2020	180-103744-10	GW		X	X	X	
103744	GWC-31	3/17/2020	180-103744-11	GW		X	X	X	
103744	EB-3-3-17-20	3/17/2020	180-103744-12	WQ	EB	X	X	X	
103744	FB-3-3-17-20	3/17/2020	180-103744-13	WQ	FB	X	X	X	
103744	GWC-18	3/17/2020	180-103744-14	GW		X	X	X	
103744	GWC-17	3/17/2020	180-103744-15	GW		X	X	X	
103810	GWC-12	3/18/2020	180-103810-1	GW		X	X	X	
103810	GWC-22	3/18/2020	180-103810-2	GW		X	X	X	
103810	GWC-23	3/18/2020	180-103810-3	GW		X	X	X	
103810	EB-4-3-18-20	3/18/2020	180-103810-4	WQ	EB	X	X	X	
103810	FB-4-3-18-20	3/18/2020	180-103810-5	WQ	FB	X	X	X	
103810	DUP-4	3/18/2020	180-103810-6	GW	FD (GWC-19)	X	X	X	
103810	GWC-19	3/18/2020	180-103810-7	GW		X	X	X	
103810	GWC-21	3/18/2020	180-103810-8	GW		X	X	X	
103810	GWC-32	3/18/2020	180-103810-9	GW		X	X	X	
103810	GWC-20	3/18/2020	180-103810-10	GQ		X	X	X	
103810	SWC-8	3/19/2020	180-103810-11	SW		X	X	X	
103810	SWC-5	3/19/2020	180-103810-12	SW		X	X	X	
103810	SWC-7	3/19/2020	180-103810-13	SW		X	X	X	
103810	SWA-1	3/19/2020	180-103810-14	SW		X	X	X	

Abbreviations:

EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control

SW – Surface Water
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Wansley Landfill

Qualifier Summary Table – March 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
103653	GWC-30	TDS			H	Holding time exceeded
103744	GWC-9	Thallium		0.00044	U	Blank detection
103744	GWC-11	Thallium		0.00067	U	Blank detection
103744	GWC-15	Thallium		0.00025	U	Blank detection
103744	GWC-14	Thallium		0.00055	U	Blank detection
103744	GWC-6	Thallium		0.00015	U	Blank detection
103744	GWC-31	Thallium		0.00017	U	Blank detection
103744	GWC-11	Fluoride			J	MS recovery below QC criteria
103501	GWA-2	Thallium			J	RPD exceeds field goal
103501	DUP-1	Thallium			J	RPD exceeds field goal
103744	GWC-6	Chloride			J	RPD exceeds field goal
103744	DUP-2	Chloride			J	RPD exceeds field goal
103744	GWC-6	Fluoride			J	RPD exceeds field goal
103744	DUP-2	Fluoride			J	RPD exceeds field goal
103744	GWC-6	Sulfate			J	RPD exceeds field goal
103744	DUP-2	Sulfate			J	RPD exceeds field goal
103744	GWC-14	Chloride			J	RPD exceeds field goal
103744	DUP-3	Chloride			J	RPD exceeds field goal
103744	GWC-14	Fluoride			J	RPD exceeds field goal
103744	DUP-3	Fluoride			J	RPD exceeds field goal
103744	GWC-14	Sulfate			J	RPD exceeds field goal
103744	DUP-3	Sulfate			J	RPD exceeds field goal
103744	GWC-19	Fluoride			J	RPD exceeds field goal
103744	DUP-4	Fluoride			J	RPD exceeds field goal
103744	GWC-19	Sulfate			J	RPD exceeds field goal
103744	DUP-4	Sulfate			J	RPD exceeds field goal
103744	GWC-19	Cobalt			J	RPD exceeds field goal
103744	DUP-4	Cobalt			J	RPD exceeds field goal
103744	GWC-19	Vanadium			J	RPD exceeds field goal
103744	DUP-4	Vanadium			J	RPD exceeds field goal

Abbreviations:

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

Qualifiers:

J – Estimated Result
U – Non-Detect Result
H – Holding Time Exceeded

Low-Flow Test Report:

Test Date / Time: 3/10/2020 11:11:51 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.85 ft Total Depth: 49.85 ft Initial Depth to Water: 12.1 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 44.85 ft Estimated Total Volume Pumped: 8.5 L Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 5.8 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 12.10

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/10/2020 11:11 AM	00:00	5.53 pH	16.20 °C	26.16 µS/cm	7.25 mg/L	2.60 NTU	99.0 mV	17.90 ft	400.00 ml/min
3/10/2020 11:16 AM	05:00	5.46 pH	15.97 °C	24.30 µS/cm	7.02 mg/L	1.99 NTU	131.5 mV	17.90 ft	400.00 ml/min
3/10/2020 11:21 AM	10:00	5.46 pH	15.84 °C	22.53 µS/cm	6.87 mg/L	1.72 NTU	127.0 mV	17.90 ft	400.00 ml/min
3/10/2020 11:26 AM	15:00	5.44 pH	15.93 °C	21.46 µS/cm	6.86 mg/L	1.98 NTU	127.8 mV	17.90 ft	400.00 ml/min
3/10/2020 11:31 AM	20:00	5.43 pH	15.93 °C	21.25 µS/cm	6.76 mg/L	1.54 NTU	83.1 mV	17.90 ft	400.00 ml/min
3/10/2020 11:35 AM	23:40	5.25 pH	15.93 °C	21.33 µS/cm	6.63 mg/L	1.60 NTU	119.7 mV	17.90 ft	400.00 ml/min
3/10/2020 11:40 AM	28:40	5.27 pH	16.01 °C	20.54 µS/cm	6.57 mg/L	1.41 NTU	78.3 mV	17.90 ft	400.00 ml/min
3/10/2020 11:45 AM	33:40	5.44 pH	16.06 °C	20.16 µS/cm	6.51 mg/L	1.04 NTU	85.6 mV	17.90 ft	400.00 ml/min
3/10/2020 11:50 AM	38:40	5.47 pH	16.12 °C	20.15 µS/cm	6.51 mg/L	1.03 NTU	82.4 mV	17.90 ft	400.00 ml/min
3/10/2020 11:55 AM	43:40	5.42 pH	16.19 °C	20.17 µS/cm	6.58 mg/L	1.72 NTU	127.1 mV	17.90 ft	400.00 ml/min

Samples

Sample ID:	Description:
GWA-1	Collected at 1155. 59F rain.

Low-Flow Test Report:

Test Date / Time: 3/10/2020 12:47:27 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.07 ft Total Depth: 60.07 ft Initial Depth to Water: 36.6 ft	Pump Type: QED Bladder Pro Tubing Type: Poly Pump Intake From TOC: 55.07 ft Estimated Total Volume Pumped: 9.5 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 36.60

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/10/2020 12:47 PM	00:00	5.75 pH	17.23 °C	53.71 µS/cm	8.11 mg/L		94.1 mV	36.60 ft	200.00 ml/min
3/10/2020 12:50 PM	02:44	5.74 pH	17.02 °C	49.20 µS/cm	8.07 mg/L		116.4 mV	36.60 ft	200.00 ml/min
3/10/2020 12:55 PM	07:44	5.74 pH	17.00 °C	47.83 µS/cm	8.06 mg/L	13.30 NTU	71.5 mV	36.90 ft	200.00 ml/min
3/10/2020 1:00 PM	12:44	5.73 pH	16.99 °C	48.31 µS/cm	8.03 mg/L	10.20 NTU	105.1 mV	36.90 ft	200.00 ml/min
3/10/2020 1:05 PM	17:44	5.73 pH	16.96 °C	48.87 µS/cm	8.00 mg/L	15.30 NTU	104.5 mV	36.90 ft	200.00 ml/min
3/10/2020 1:10 PM	22:44	5.73 pH	17.02 °C	49.15 µS/cm	8.00 mg/L	8.94 NTU	71.2 mV	36.90 ft	200.00 ml/min
3/10/2020 1:15 PM	27:44	5.73 pH	17.01 °C	49.90 µS/cm	7.95 mg/L	7.39 NTU	68.4 mV	36.90 ft	200.00 ml/min
3/10/2020 1:20 PM	32:44	5.73 pH	17.12 °C	50.71 µS/cm	7.94 mg/L	7.26 NTU	68.0 mV	36.90 ft	200.00 ml/min
3/10/2020 1:25 PM	37:44	5.72 pH	17.29 °C	51.46 µS/cm	7.88 mg/L	6.30 NTU	67.6 mV	36.90 ft	200.00 ml/min
3/10/2020 1:30 PM	42:44	5.72 pH	17.26 °C	52.51 µS/cm	7.84 mg/L	9.03 NTU	101.5 mV	36.90 ft	200.00 ml/min
3/10/2020 1:35 PM	47:44	5.72 pH	17.21 °C	52.74 µS/cm	7.83 mg/L	4.97 NTU	68.1 mV	36.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWA-2	Collected at 1335. 62F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/10/2020 2:12:03 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

<p>Location Name: GWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.16 ft Total Depth: 31.16 ft Initial Depth to Water: 19.26 ft</p>	<p>Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 26.16 ft Estimated Total Volume Pumped: 12636.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.14 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 714344</p>
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Test Notes:

Starting WL 19.26

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/10/2020 2:12 PM	00:00	5.62 pH	17.65 °C	220.48 µS/cm	7.37 mg/L		96.0 mV	19.26 ft	200.00 ml/min
3/10/2020 2:15 PM	03:11	5.62 pH	16.84 °C	220.56 µS/cm	7.26 mg/L		112.7 mV	19.26 ft	200.00 ml/min
3/10/2020 2:20 PM	08:11	5.63 pH	16.72 °C	223.54 µS/cm	7.30 mg/L		69.9 mV	19.26 ft	200.00 ml/min
3/10/2020 2:25 PM	13:11	5.63 pH	16.69 °C	225.88 µS/cm	7.17 mg/L	4.88 NTU	67.7 mV	21.40 ft	200.00 ml/min
3/10/2020 2:30 PM	18:11	5.62 pH	16.69 °C	226.55 µS/cm	7.06 mg/L	3.37 NTU	65.8 mV	21.80 ft	200.00 ml/min
3/10/2020 2:35 PM	23:11	5.62 pH	16.69 °C	231.99 µS/cm	7.02 mg/L	2.22 NTU	65.3 mV	22.10 ft	200.00 ml/min
3/10/2020 2:40 PM	28:11	5.61 pH	16.73 °C	229.73 µS/cm	6.61 mg/L	3.11 NTU	65.0 mV	22.70 ft	200.00 ml/min
3/10/2020 2:45 PM	33:11	5.61 pH	16.72 °C	223.46 µS/cm	6.20 mg/L	2.03 NTU	64.8 mV	23.00 ft	200.00 ml/min
3/10/2020 2:50 PM	38:11	5.60 pH	16.74 °C	212.47 µS/cm	6.09 mg/L	2.65 NTU	94.3 mV	23.10 ft	200.00 ml/min
3/10/2020 2:55 PM	43:11	5.61 pH	16.76 °C	206.62 µS/cm	6.14 mg/L	3.04 NTU	67.3 mV	23.10 ft	200.00 ml/min
3/10/2020 3:00 PM	48:11	5.60 pH	16.73 °C	218.59 µS/cm	5.48 mg/L	3.78 NTU	67.2 mV	23.20 ft	200.00 ml/min
3/10/2020 3:05 PM	53:11	5.59 pH	16.78 °C	222.91 µS/cm	4.59 mg/L	3.43 NTU	65.9 mV	23.30 ft	200.00 ml/min
3/10/2020 3:10 PM	58:11	5.59 pH	16.72 °C	226.42 µS/cm	4.23 mg/L	3.14 NTU	65.3 mV	23.40 ft	200.00 ml/min
3/10/2020 3:15 PM	01:03:11	5.53 pH	16.64 °C	225.46 µS/cm	4.07 mg/L	2.22 NTU	65.6 mV	23.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWA-3	Collected at 1515. 65F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/10/2020 2:15:32 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.61 ft Total Depth: 40.61 ft Initial Depth to Water: 18.8 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 40 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 2.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time-1305

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/10/2020 2:15 PM	00:00	6.21 pH	18.65 °C	175.49 µS/cm	3.72 mg/L		139.6 mV	18.80 ft	180.00 ml/min
3/10/2020 2:20 PM	05:00	6.17 pH	17.49 °C	176.69 µS/cm	2.09 mg/L	10.00 NTU	144.5 mV	19.00 ft	180.00 ml/min
3/10/2020 2:25 PM	10:00	6.14 pH	17.49 °C	175.18 µS/cm	1.42 mg/L	18.00 NTU	127.8 mV	19.00 ft	180.00 ml/min
3/10/2020 2:30 PM	15:00	6.14 pH	17.47 °C	176.26 µS/cm	1.22 mg/L	17.00 NTU	89.1 mV	19.00 ft	180.00 ml/min
3/10/2020 2:35 PM	20:00	6.15 pH	17.61 °C	178.57 µS/cm	1.07 mg/L	16.00 NTU	106.7 mV	19.00 ft	180.00 ml/min
3/10/2020 2:40 PM	25:00	6.15 pH	17.71 °C	185.56 µS/cm	0.79 mg/L	9.49 NTU	101.4 mV	19.00 ft	180.00 ml/min
3/10/2020 2:45 PM	30:00	6.16 pH	17.59 °C	213.73 µS/cm	0.66 mg/L	6.84 NTU	61.9 mV	19.00 ft	180.00 ml/min
3/10/2020 2:50 PM	35:00	6.23 pH	17.62 °C	232.49 µS/cm	0.33 mg/L	3.22 NTU	43.4 mV	19.00 ft	180.00 ml/min
3/10/2020 2:55 PM	40:00	6.23 pH	17.66 °C	227.44 µS/cm	0.28 mg/L	2.95 NTU	37.7 mV	19.00 ft	180.00 ml/min
3/10/2020 3:00 PM	45:00	6.22 pH	17.54 °C	219.48 µS/cm	0.26 mg/L	2.11 NTU	36.9 mV	19.00 ft	180.00 ml/min
3/10/2020 3:05 PM	50:00	6.24 pH	17.54 °C	220.28 µS/cm	0.26 mg/L	2.25 NTU	36.3 mV	19.00 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2020 10:50:13 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWA-28 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.13 ft Total Depth: 57.13 ft Initial Depth to Water: 23.66 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 6.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 40 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Light rain, 55 degrees F, sample time-1130

Weather Conditions:

Light rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/10/2020 10:50 AM	00:00	6.67 pH	17.50 °C	0.00 µS/cm	9.46 mg/L		197.8 mV	23.66 ft	150.00 ml/min
3/10/2020 10:55 AM	05:00	6.09 pH	16.40 °C	60.62 µS/cm	6.56 mg/L	0.77 NTU	130.0 mV	24.80 ft	150.00 ml/min
3/10/2020 11:00 AM	10:00	6.06 pH	16.24 °C	59.82 µS/cm	6.36 mg/L	0.43 NTU	113.9 mV	25.20 ft	150.00 ml/min
3/10/2020 11:05 AM	15:00	6.11 pH	16.10 °C	59.46 µS/cm	6.07 mg/L	0.40 NTU	104.3 mV	25.60 ft	150.00 ml/min
3/10/2020 11:10 AM	20:00	6.07 pH	16.11 °C	59.40 µS/cm	5.96 mg/L	0.82 NTU	96.3 mV	26.00 ft	150.00 ml/min
3/10/2020 11:15 AM	25:00	5.78 pH	16.24 °C	59.29 µS/cm	5.89 mg/L	1.00 NTU	91.2 mV	26.20 ft	150.00 ml/min
3/10/2020 11:20 AM	30:00	6.03 pH	16.24 °C	58.90 µS/cm	5.80 mg/L	0.55 NTU	87.9 mV	26.50 ft	150.00 ml/min
3/10/2020 11:25 AM	35:00	6.12 pH	16.20 °C	58.75 µS/cm	5.78 mg/L	0.73 NTU	86.0 mV	26.80 ft	150.00 ml/min
3/10/2020 11:30 AM	40:00	6.02 pH	15.90 °C	58.35 µS/cm	5.66 mg/L	0.69 NTU	84.1 mV	27.00 ft	150.00 ml/min
3/10/2020 11:32 AM	42:01	6.05 pH	15.88 °C	58.54 µS/cm	5.59 mg/L	0.69 NTU	106.3 mV	27.00 ft	150.00 ml/min

Samples

Low-Flow Test Report:

Test Date / Time: 3/10/2020 12:30:44 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWA-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.13 ft Total Depth: 57.13 ft Initial Depth to Water: 37.2 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s

Weather Conditions:

Cloudy, 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/10/2020 12:30 PM	00:00	5.84 pH	17.43 °C	76.78 µS/cm	7.64 mg/L		118.9 mV	37.20 ft	200.00 ml/min
3/10/2020 12:35 PM	05:00	5.76 pH	16.77 °C	77.56 µS/cm	6.50 mg/L	19.00 NTU	115.3 mV	37.70 ft	200.00 ml/min
3/10/2020 12:40 PM	10:00	5.79 pH	16.76 °C	77.22 µS/cm	7.00 mg/L	22.00 NTU	116.2 mV	37.70 ft	200.00 ml/min
3/10/2020 12:45 PM	15:00	5.79 pH	16.82 °C	77.03 µS/cm	7.37 mg/L	17.00 NTU	118.8 mV	37.70 ft	200.00 ml/min
3/10/2020 12:50 PM	20:00	5.80 pH	16.84 °C	76.71 µS/cm	7.65 mg/L	16.00 NTU	119.9 mV	37.70 ft	200.00 ml/min
3/10/2020 12:55 PM	25:00	5.81 pH	16.90 °C	76.60 µS/cm	7.86 mg/L	14.00 NTU	120.2 mV	37.70 ft	200.00 ml/min
3/10/2020 1:00 PM	30:00	5.81 pH	16.87 °C	76.60 µS/cm	8.07 mg/L	13.00 NTU	151.6 mV	37.70 ft	200.00 ml/min
3/10/2020 1:05 PM	35:00	5.82 pH	16.91 °C	76.32 µS/cm	8.20 mg/L	12.00 NTU	122.9 mV	37.70 ft	200.00 ml/min
3/10/2020 1:10 PM	40:00	5.77 pH	17.11 °C	76.82 µS/cm	7.55 mg/L	11.00 NTU	124.7 mV	37.70 ft	200.00 ml/min
3/10/2020 1:15 PM	45:00	5.75 pH	17.27 °C	76.31 µS/cm	6.83 mg/L	7.50 NTU	122.3 mV	37.70 ft	200.00 ml/min
3/10/2020 1:20 PM	50:00	5.75 pH	17.62 °C	75.72 µS/cm	6.62 mg/L	5.60 NTU	120.6 mV	37.70 ft	200.00 ml/min
3/10/2020 1:25 PM	55:00	5.75 pH	17.81 °C	75.23 µS/cm	6.53 mg/L	4.85 NTU	119.5 mV	37.70 ft	200.00 ml/min

Low-Flow Test Report:

Test Date / Time: 3/16/2020 12:00:16 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.75 ft Total Depth: 36.75 ft Initial Depth to Water: 13.59 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 31 ft Estimated Total Volume Pumped: 5.175 liter Flow Cell Volume: 90 ml Final Flow Rate: 115 ml/min Final Draw Down: 18.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 50s, sample time 1245

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/16/2020 12:00 PM	00:00	6.45 pH	15.61 °C	269.06 µS/cm	7.01 mg/L		84.3 mV	13.59 ft	115.00 ml/min
3/16/2020 12:05 PM	05:00	6.45 pH	16.09 °C	265.47 µS/cm	2.66 mg/L	4.15 NTU	71.6 mV	13.80 ft	115.00 ml/min
3/16/2020 12:10 PM	10:00	6.45 pH	16.13 °C	263.27 µS/cm	2.56 mg/L	4.10 NTU	91.0 mV	14.00 ft	115.00 ml/min
3/16/2020 12:15 PM	15:00	6.45 pH	16.19 °C	263.01 µS/cm	2.44 mg/L	3.97 NTU	66.4 mV	14.20 ft	115.00 ml/min
3/16/2020 12:20 PM	20:00	6.44 pH	16.20 °C	263.58 µS/cm	2.25 mg/L	2.77 NTU	77.7 mV	14.60 ft	115.00 ml/min
3/16/2020 12:25 PM	25:00	6.44 pH	16.22 °C	263.61 µS/cm	2.07 mg/L	3.03 NTU	53.3 mV	15.00 ft	115.00 ml/min
3/16/2020 12:30 PM	30:00	6.44 pH	16.31 °C	265.31 µS/cm	1.90 mg/L	2.98 NTU	45.5 mV	15.10 ft	115.00 ml/min
3/16/2020 12:35 PM	35:00	6.32 pH	16.29 °C	263.85 µS/cm	1.71 mg/L	3.11 NTU	40.8 mV	15.10 ft	115.00 ml/min
3/16/2020 12:40 PM	40:00	6.37 pH	16.28 °C	260.71 µS/cm	1.75 mg/L	2.22 NTU	43.1 mV	15.10 ft	115.00 ml/min
3/16/2020 12:45 PM	45:00	6.35 pH	16.11 °C	259.54 µS/cm	1.77 mg/L	1.72 NTU	42.2 mV	15.10 ft	115.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/16/2020 10:35:05 AM

Project: A

Operator Name: Jordan Berisford

Location Name: GWC-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.63 ft Total Depth: 30.63 ft Initial Depth to Water: 15.44 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 11.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy ,50s, sample time1120, DUP-2 here

Weather Conditions:

Cloudy, 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/16/2020 10:35 AM	00:00	5.64 pH	14.80 °C	194.83 µS/cm	6.18 mg/L		201.3 mV	15.44 ft	259.00 ml/min
3/16/2020 10:40 AM	05:00	5.78 pH	15.95 °C	118.16 µS/cm	1.59 mg/L	2.01 NTU	126.1 mV	15.80 ft	259.00 ml/min
3/16/2020 10:45 AM	10:00	5.78 pH	16.15 °C	117.09 µS/cm	1.32 mg/L	2.22 NTU	115.2 mV	15.80 ft	259.00 ml/min
3/16/2020 10:50 AM	15:00	5.81 pH	16.11 °C	119.20 µS/cm	1.19 mg/L	1.40 NTU	108.1 mV	15.80 ft	259.00 ml/min
3/16/2020 10:55 AM	20:00	5.80 pH	16.15 °C	123.41 µS/cm	1.05 mg/L	1.44 NTU	99.2 mV	15.80 ft	259.00 ml/min
3/16/2020 11:00 AM	25:00	5.83 pH	16.20 °C	126.46 µS/cm	0.92 mg/L	1.62 NTU	89.4 mV	15.80 ft	259.00 ml/min
3/16/2020 11:05 AM	30:00	5.83 pH	16.24 °C	130.65 µS/cm	0.83 mg/L	1.93 NTU	83.8 mV	15.80 ft	259.00 ml/min
3/16/2020 11:10 AM	35:00	5.83 pH	16.24 °C	131.88 µS/cm	0.77 mg/L	1.56 NTU	80.5 mV	15.80 ft	259.00 ml/min
3/16/2020 11:15 AM	40:00	5.85 pH	16.24 °C	134.17 µS/cm	0.69 mg/L	1.50 NTU	76.2 mV	15.80 ft	259.00 ml/min
3/16/2020 11:20 AM	45:00	5.86 pH	16.33 °C	135.44 µS/cm	0.63 mg/L	1.39 NTU	73.6 mV	15.80 ft	259.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2020 10:35:39 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.9 ft Total Depth: 25.9 ft Initial Depth to Water: 7.92 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 20.9 ft Estimated Total Volume Pumped: 2500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting 7.92

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/12/2020 10:35 AM	00:00	6.42 pH	17.54 °C	605.10 µS/cm	2.13 mg/L		179.1 mV	7.92 ft	100.00 ml/min
3/12/2020 10:40 AM	05:00	6.43 pH	17.45 °C	608.17 µS/cm	0.93 mg/L	3.46 NTU	240.9 mV	10.70 ft	100.00 ml/min
3/12/2020 10:45 AM	10:00	6.44 pH	17.37 °C	608.71 µS/cm	0.87 mg/L	4.89 NTU	258.2 mV	10.90 ft	100.00 ml/min
3/12/2020 10:50 AM	15:00	6.45 pH	17.33 °C	604.34 µS/cm	0.84 mg/L	2.61 NTU	259.8 mV	11.00 ft	100.00 ml/min
3/12/2020 10:55 AM	20:00	6.45 pH	17.39 °C	602.44 µS/cm	0.82 mg/L	2.20 NTU	263.5 mV	11.00 ft	100.00 ml/min
3/12/2020 11:00 AM	25:00	6.45 pH	17.48 °C	602.57 µS/cm	0.82 mg/L	2.12 NTU	271.7 mV	11.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
GWC-7	Sampled at 1100. 64F overcast.

Low-Flow Test Report:

Test Date / Time: 3/12/2020 11:30:41 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 10.03 ft Total Depth: 20.03 ft Initial Depth to Water: 8.15 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 15.03 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.35 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 20.03

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/12/2020 11:30 AM	00:00	6.25 pH	17.58 °C	185.57 µS/cm	2.73 mg/L		118.1 mV	8.15 ft	200.00 ml/min
3/12/2020 11:35 AM	05:00	6.23 pH	16.55 °C	181.59 µS/cm	2.49 mg/L	6.38 NTU	84.1 mV	8.50 ft	200.00 ml/min
3/12/2020 11:40 AM	10:00	6.17 pH	16.46 °C	176.57 µS/cm	2.20 mg/L	5.42 NTU	76.3 mV	8.50 ft	200.00 ml/min
3/12/2020 11:45 AM	15:00	6.12 pH	16.44 °C	173.69 µS/cm	1.84 mg/L	4.86 NTU	74.3 mV	8.50 ft	200.00 ml/min
3/12/2020 11:50 AM	20:00	6.03 pH	16.34 °C	170.90 µS/cm	1.45 mg/L	4.04 NTU	73.7 mV	8.50 ft	200.00 ml/min
3/12/2020 11:55 AM	25:00	6.00 pH	16.45 °C	171.55 µS/cm	1.26 mg/L	4.63 NTU	73.1 mV	8.50 ft	200.00 ml/min
3/12/2020 12:00 PM	30:00	5.96 pH	16.50 °C	172.60 µS/cm	1.11 mg/L	4.11 NTU	71.4 mV	8.50 ft	200.00 ml/min
3/12/2020 12:05 PM	35:00	5.91 pH	16.39 °C	173.01 µS/cm	0.95 mg/L	4.20 NTU	70.0 mV	8.50 ft	200.00 ml/min
3/12/2020 12:10 PM	40:00	5.90 pH	16.44 °C	174.53 µS/cm	0.90 mg/L	2.05 NTU	68.5 mV	8.50 ft	200.00 ml/min
3/12/2020 12:15 PM	45:00	5.86 pH	16.40 °C	174.04 µS/cm	0.79 mg/L	2.47 NTU	68.1 mV	8.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWC-8	Collected at 1215. 66F overcast.

Low-Flow Test Report:

Test Date / Time: 3/16/2020 10:28:17 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.41 ft Total Depth: 19.41 ft Initial Depth to Water: 8.14 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 14.41 ft Estimated Total Volume Pumped: 13000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/16/2020 10:28 AM	00:00	5.72 pH	15.03 °C	123.04 µS/cm	0.77 mg/L		84.4 mV	8.14 ft	200.00 ml/min
3/16/2020 10:33 AM	05:00	5.74 pH	15.21 °C	116.77 µS/cm	0.19 mg/L	13.70 NTU	73.7 mV	8.40 ft	200.00 ml/min
3/16/2020 10:38 AM	10:00	5.76 pH	15.18 °C	115.13 µS/cm	0.17 mg/L	11.50 NTU	70.2 mV	8.40 ft	200.00 ml/min
3/16/2020 10:43 AM	15:00	5.77 pH	15.13 °C	115.26 µS/cm	0.16 mg/L	10.70 NTU	67.8 mV	8.40 ft	200.00 ml/min
3/16/2020 10:48 AM	20:00	5.80 pH	15.03 °C	114.74 µS/cm	1.77 mg/L	11.50 NTU	66.7 mV	8.40 ft	200.00 ml/min
3/16/2020 10:53 AM	25:00	5.78 pH	15.06 °C	116.78 µS/cm	0.21 mg/L	15.20 NTU	84.3 mV	8.40 ft	200.00 ml/min
3/16/2020 10:58 AM	30:00	5.78 pH	15.03 °C	117.27 µS/cm	0.17 mg/L	10.30 NTU	82.6 mV	8.40 ft	200.00 ml/min
3/16/2020 11:03 AM	35:00	5.78 pH	14.98 °C	118.53 µS/cm	0.16 mg/L	9.04 NTU	81.5 mV	8.40 ft	200.00 ml/min
3/16/2020 11:08 AM	40:00	5.80 pH	15.03 °C	119.34 µS/cm	0.15 mg/L	8.40 NTU	79.7 mV	8.40 ft	200.00 ml/min
3/16/2020 11:13 AM	45:00	5.80 pH	15.06 °C	120.23 µS/cm	0.14 mg/L	8.41 NTU	78.6 mV	8.40 ft	200.00 ml/min
3/16/2020 11:18 AM	50:00	5.79 pH	15.07 °C	120.24 µS/cm	0.14 mg/L	8.52 NTU	62.0 mV	8.40 ft	200.00 ml/min
3/16/2020 11:23 AM	55:00	5.79 pH	15.12 °C	120.76 µS/cm	0.13 mg/L	6.72 NTU	61.3 mV	8.40 ft	200.00 ml/min
3/16/2020 11:28 AM	01:00:00	5.79 pH	15.12 °C	121.30 µS/cm	0.12 mg/L	5.73 NTU	61.2 mV	8.40 ft	200.00 ml/min
3/16/2020 11:33 AM	01:05:00	5.80 pH	15.09 °C	122.84 µS/cm	0.14 mg/L	4.97 NTU	60.1 mV	8.40 ft	200.00 ml/min

Low-Flow Test Report:

Test Date / Time: 3/17/2020 9:54:47 AM

Project: Plant Wansley - Landfill (4)

Operator Name: O. Fuquea

Location Name: GWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 11.71 ft Total Depth: 21.71 ft Initial Depth to Water: 11.16 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 17 ft Estimated Total Volume Pumped: 2500 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/17/2020 9:54 AM	00:00	5.98 pH	14.85 °C	284.49 µS/cm	7.70 mg/L		159.4 mV	11.16 ft	125.00 ml/min
3/17/2020 9:59 AM	05:00	6.00 pH	15.83 °C	197.67 µS/cm	4.10 mg/L	4.94 NTU	80.8 mV	13.10 ft	125.00 ml/min
3/17/2020 10:04 AM	10:00	5.99 pH	15.98 °C	193.30 µS/cm	4.11 mg/L	5.13 NTU	83.5 mV	13.50 ft	125.00 ml/min
3/17/2020 10:09 AM	15:00	5.98 pH	16.06 °C	190.95 µS/cm	4.14 mg/L	4.83 NTU	87.9 mV	13.70 ft	125.00 ml/min
3/17/2020 10:14 AM	20:00	5.96 pH	16.10 °C	187.09 µS/cm	4.09 mg/L	4.19 NTU	91.0 mV	13.70 ft	125.00 ml/min

Samples

Sample ID:	Description:
GWC-10	Sampled at 1015. 52F overcast.

Low-Flow Test Report:

Test Date / Time: 3/16/2020 1:47:03 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 8.23 ft Total Depth: 18.23 ft Initial Depth to Water: 6.4 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/16/2020 1:47 PM	00:00	5.83 pH	15.66 °C	54.20 µS/cm	0.33 mg/L	92.00 NTU	54.1 mV	6.40 ft	150.00 ml/min
3/16/2020 1:52 PM	05:00	5.80 pH	15.30 °C	52.83 µS/cm	0.18 mg/L	64.00 NTU	53.3 mV	6.40 ft	150.00 ml/min
3/16/2020 1:57 PM	10:00	5.81 pH	15.14 °C	54.12 µS/cm	0.18 mg/L	32.00 NTU	50.6 mV	6.40 ft	150.00 ml/min
3/16/2020 2:02 PM	15:00	5.84 pH	15.11 °C	58.13 µS/cm	0.16 mg/L	8.33 NTU	48.5 mV	6.40 ft	150.00 ml/min
3/16/2020 2:07 PM	20:00	5.86 pH	14.99 °C	61.97 µS/cm	0.14 mg/L	8.57 NTU	47.1 mV	6.40 ft	150.00 ml/min
3/16/2020 2:12 PM	25:00	5.89 pH	14.96 °C	63.88 µS/cm	0.14 mg/L	4.61 NTU	45.9 mV	6.40 ft	150.00 ml/min
3/16/2020 2:17 PM	30:00	5.89 pH	14.89 °C	67.74 µS/cm	0.13 mg/L	4.61 NTU	45.2 mV	6.40 ft	150.00 ml/min
3/16/2020 2:22 PM	35:00	5.91 pH	14.88 °C	69.05 µS/cm	0.13 mg/L	3.77 NTU	44.3 mV	6.40 ft	150.00 ml/min
3/16/2020 2:27 PM	40:00	5.92 pH	14.89 °C	70.36 µS/cm	0.12 mg/L	3.80 NTU	43.3 mV	6.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
GWC-11	Sampled at 1427. 54F overcast.

Low-Flow Test Report:

Test Date / Time: 3/18/2020 10:10:18 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.6 ft Total Depth: 40.63 ft Initial Depth to Water: 26.71 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.59 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/18/2020 10:10 AM	00:00	7.15 pH	17.44 °C	310.76 µS/cm	0.61 mg/L		-9.0 mV	26.71 ft	100.00 ml/min
3/18/2020 10:15 AM	05:00	7.30 pH	17.63 °C	304.25 µS/cm	0.41 mg/L	4.95 NTU	-61.0 mV	29.30 ft	100.00 ml/min
3/18/2020 10:20 AM	10:00	7.39 pH	17.63 °C	305.11 µS/cm	0.37 mg/L	3.37 NTU	-49.2 mV	29.30 ft	100.00 ml/min
3/18/2020 10:25 AM	15:00	7.47 pH	17.80 °C	303.67 µS/cm	0.36 mg/L	2.88 NTU	-62.7 mV	29.30 ft	100.00 ml/min
3/18/2020 10:30 AM	20:00	7.52 pH	17.89 °C	304.40 µS/cm	0.37 mg/L	3.53 NTU	-71.6 mV	29.30 ft	100.00 ml/min
3/18/2020 10:35 AM	25:00	7.55 pH	18.16 °C	305.33 µS/cm	0.41 mg/L	2.94 NTU	-118.1 mV	29.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
GWC-12	Sampled at 1035. 60F overcast.

Low-Flow Test Report:

Test Date / Time: 3/12/2020 2:05:16 PM

Project: Plant Wansley - Landfill (3)

Operator Name: O. Fuquea

Location Name: GWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 80.42 ft Total Depth: 90.42 ft Initial Depth to Water: 5.26 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 15.03 ft Estimated Total Volume Pumped: 6750 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 5.26

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/12/2020 2:05 PM	00:00	6.84 pH	21.25 °C	62.58 µS/cm	4.01 mg/L		90.4 mV	5.26 ft	225.00 ml/min
3/12/2020 2:10 PM	05:00	6.79 pH	18.81 °C	65.24 µS/cm	3.70 mg/L	3.54 NTU	62.8 mV	5.60 ft	225.00 ml/min
3/12/2020 2:15 PM	10:00	6.76 pH	18.78 °C	63.28 µS/cm	3.88 mg/L	3.87 NTU	59.1 mV	5.60 ft	225.00 ml/min
3/12/2020 2:20 PM	15:00	6.74 pH	18.61 °C	61.83 µS/cm	4.03 mg/L	2.28 NTU	57.8 mV	5.60 ft	225.00 ml/min
3/12/2020 2:25 PM	20:00	6.70 pH	18.45 °C	60.50 µS/cm	4.28 mg/L	1.47 NTU	57.8 mV	5.60 ft	225.00 ml/min
3/12/2020 2:30 PM	25:00	6.69 pH	18.47 °C	59.96 µS/cm	4.37 mg/L	1.32 NTU	57.7 mV	5.60 ft	225.00 ml/min
3/12/2020 2:35 PM	30:00	6.68 pH	18.34 °C	59.05 µS/cm	4.50 mg/L	0.96 NTU	57.8 mV	5.60 ft	225.00 ml/min

Samples

Sample ID:	Description:
GWC-13	Collected at 1435. 72F overcast.

Low-Flow Test Report:

Test Date / Time: 3/17/2020 11:35:23 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.55 ft Total Depth: 24.55 ft Initial Depth to Water: 8.61 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 27000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.69 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/17/2020 11:35 AM	00:00	5.84 pH	16.55 °C	426.99 µS/cm	0.34 mg/L		61.0 mV	8.61 ft	200.00 ml/min
3/17/2020 11:40 AM	05:00	5.82 pH	16.33 °C	451.36 µS/cm	0.23 mg/L	21.40 NTU	60.1 mV	8.80 ft	200.00 ml/min
3/17/2020 11:45 AM	10:00	5.79 pH	16.38 °C	473.41 µS/cm	0.20 mg/L	17.10 NTU	61.5 mV	9.00 ft	200.00 ml/min
3/17/2020 11:50 AM	15:00	5.78 pH	16.40 °C	476.28 µS/cm	0.18 mg/L	14.50 NTU	61.9 mV	9.30 ft	200.00 ml/min
3/17/2020 11:55 AM	20:00	5.78 pH	16.46 °C	470.29 µS/cm	0.16 mg/L	10.30 NTU	61.5 mV	9.30 ft	200.00 ml/min
3/17/2020 12:00 PM	25:00	5.75 pH	16.46 °C	491.79 µS/cm	0.16 mg/L	10.90 NTU	63.5 mV	9.30 ft	200.00 ml/min
3/17/2020 12:05 PM	30:00	5.73 pH	16.55 °C	487.21 µS/cm	0.15 mg/L	10.10 NTU	63.5 mV	9.30 ft	200.00 ml/min
3/17/2020 12:10 PM	35:00	5.72 pH	16.60 °C	502.76 µS/cm	0.15 mg/L	13.40 NTU	63.6 mV	9.30 ft	200.00 ml/min
3/17/2020 12:15 PM	40:00	5.72 pH	16.60 °C	487.81 µS/cm	0.14 mg/L	13.20 NTU	63.4 mV	9.30 ft	200.00 ml/min
3/17/2020 12:20 PM	45:00	5.70 pH	16.57 °C	494.19 µS/cm	0.14 mg/L	9.72 NTU	64.2 mV	9.30 ft	200.00 ml/min
3/17/2020 12:25 PM	50:00	5.71 pH	16.55 °C	487.47 µS/cm	0.13 mg/L	12.10 NTU	63.5 mV	9.30 ft	200.00 ml/min
3/17/2020 12:30 PM	55:00	5.69 pH	16.56 °C	505.91 µS/cm	0.13 mg/L	10.20 NTU	64.4 mV	9.30 ft	200.00 ml/min
3/17/2020 12:35 PM	01:00:00	5.68 pH	16.60 °C	508.74 µS/cm	0.13 mg/L	10.00 NTU	64.5 mV	9.30 ft	200.00 ml/min
3/17/2020 12:40 PM	01:05:00	5.68 pH	16.64 °C	501.72 µS/cm	0.13 mg/L	10.70 NTU	64.4 mV	9.30 ft	200.00 ml/min
3/17/2020 12:45 PM	01:10:00	5.68 pH	16.64 °C	507.30 µS/cm	0.13 mg/L	9.50 NTU	64.6 mV	9.30 ft	200.00 ml/min

3/17/2020 12:50 PM	01:15:00	5.68 pH	16.73 °C	488.62 µS/cm	0.14 mg/L	10.50 NTU	63.9 mV	9.30 ft	200.00 ml/min
3/17/2020 12:55 PM	01:20:00	5.65 pH	16.79 °C	501.65 µS/cm	0.13 mg/L	9.80 NTU	64.6 mV	9.30 ft	200.00 ml/min
3/17/2020 1:00 PM	01:25:00	5.64 pH	16.83 °C	515.18 µS/cm	0.13 mg/L	9.56 NTU	65.0 mV	9.30 ft	200.00 ml/min
3/17/2020 1:05 PM	01:30:00	5.63 pH	16.87 °C	517.11 µS/cm	0.12 mg/L	9.34 NTU	64.9 mV	9.30 ft	200.00 ml/min
3/17/2020 1:10 PM	01:35:00	5.69 pH	16.82 °C	477.45 µS/cm	0.12 mg/L	10.60 NTU	62.8 mV	9.30 ft	200.00 ml/min
3/17/2020 1:15 PM	01:40:00	5.63 pH	16.77 °C	521.13 µS/cm	0.11 mg/L	8.86 NTU	64.3 mV	9.30 ft	200.00 ml/min
3/17/2020 1:20 PM	01:45:00	5.65 pH	16.78 °C	508.65 µS/cm	0.11 mg/L	7.73 NTU	63.6 mV	9.30 ft	200.00 ml/min
3/17/2020 1:25 PM	01:50:00	5.66 pH	16.91 °C	487.37 µS/cm	0.10 mg/L	9.71 NTU	63.0 mV	9.30 ft	200.00 ml/min
3/17/2020 1:30 PM	01:55:00	5.62 pH	16.91 °C	517.27 µS/cm	0.10 mg/L	8.60 NTU	63.9 mV	9.30 ft	200.00 ml/min
3/17/2020 1:35 PM	02:00:00	5.64 pH	16.87 °C	486.35 µS/cm	0.10 mg/L	7.52 NTU	62.8 mV	9.30 ft	200.00 ml/min
3/17/2020 1:40 PM	02:05:00	5.64 pH	16.93 °C	503.90 µS/cm	0.10 mg/L	7.10 NTU	62.7 mV	9.30 ft	200.00 ml/min
3/17/2020 1:45 PM	02:10:00	5.62 pH	16.96 °C	512.91 µS/cm	0.10 mg/L	6.80 NTU	63.0 mV	9.30 ft	200.00 ml/min
3/17/2020 1:50 PM	02:15:00	5.63 pH	17.04 °C	493.98 µS/cm	0.11 mg/L	4.39 NTU	62.5 mV	9.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWC-14	Sampled at 1350. 60F overcast.

Low-Flow Test Report:

Test Date / Time: 3/16/2020 2:50:27 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.06 ft Total Depth: 51.06 ft Initial Depth to Water: 5.15 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 46.07 ft Estimated Total Volume Pumped: 9078.75 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/16/2020 2:50 PM	00:00	7.12 pH	16.82 °C	91.84 µS/cm	8.63 mg/L		41.7 mV	5.15 ft	225.00 ml/min
3/16/2020 2:55 PM	05:00	7.50 pH	16.91 °C	92.57 µS/cm	8.48 mg/L	1.68 NTU	37.8 mV	5.70 ft	225.00 ml/min
3/16/2020 3:00 PM	10:00	7.40 pH	16.96 °C	96.72 µS/cm	7.74 mg/L	0.64 NTU	38.2 mV	5.90 ft	225.00 ml/min
3/16/2020 3:05 PM	15:00	7.09 pH	16.96 °C	101.86 µS/cm	4.43 mg/L	0.60 NTU	39.5 mV	5.90 ft	225.00 ml/min
3/16/2020 3:10 PM	20:00	7.08 pH	16.96 °C	102.98 µS/cm	4.22 mg/L	0.47 NTU	40.9 mV	5.90 ft	225.00 ml/min
3/16/2020 3:15 PM	25:00	7.02 pH	16.96 °C	104.62 µS/cm	3.99 mg/L	0.43 NTU	42.8 mV	5.90 ft	225.00 ml/min
3/16/2020 3:20 PM	30:00	6.70 pH	17.03 °C	128.54 µS/cm	4.12 mg/L	0.45 NTU	47.9 mV	5.90 ft	225.00 ml/min
3/16/2020 3:25 PM	35:00	6.59 pH	17.04 °C	140.30 µS/cm	3.64 mg/L	0.46 NTU	49.9 mV	5.90 ft	225.00 ml/min
3/16/2020 3:30 PM	40:00	6.58 pH	17.08 °C	142.27 µS/cm	3.49 mg/L	0.47 NTU	51.1 mV	5.90 ft	225.00 ml/min
3/16/2020 3:30 PM	40:21	6.58 pH	17.07 °C	141.35 µS/cm	3.49 mg/L	0.43 NTU	58.7 mV	5.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
GWC-15	Sampled at 1531. 55F overcast.

Low-Flow Test Report:

Test Date / Time: 3/17/2020 2:25:17 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.97 ft Total Depth: 26.97 ft Initial Depth to Water: 9.28 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 21.97 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/17/2020 2:25 PM	00:00	6.66 pH	18.61 °C	118.19 µS/cm	4.20 mg/L		42.7 mV	9.28 ft	200.00 ml/min
3/17/2020 2:30 PM	05:00	6.64 pH	17.71 °C	116.91 µS/cm	3.79 mg/L	2.16 NTU	46.4 mV	9.80 ft	200.00 ml/min
3/17/2020 2:35 PM	10:00	6.55 pH	17.59 °C	106.99 µS/cm	3.75 mg/L	1.65 NTU	63.0 mV	9.80 ft	200.00 ml/min
3/17/2020 2:40 PM	15:00	6.40 pH	17.62 °C	96.07 µS/cm	3.70 mg/L	1.01 NTU	69.4 mV	9.80 ft	200.00 ml/min
3/17/2020 2:45 PM	20:00	6.37 pH	17.62 °C	93.99 µS/cm	3.67 mg/L	0.95 NTU	73.7 mV	9.80 ft	200.00 ml/min
3/17/2020 2:50 PM	25:00	6.35 pH	17.59 °C	92.90 µS/cm	3.65 mg/L	0.84 NTU	76.6 mV	9.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWC-16	Sampled at 1450. 60F overcast.

Low-Flow Test Report:

Test Date / Time: 3/17/2020 1:40:21 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.34 ft Total Depth: 53.34 ft Initial Depth to Water: 19 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 16.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time-1430

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/17/2020 1:40 PM	00:00	6.07 pH	18.47 °C	85.42 µS/cm	5.12 mg/L		105.2 mV	19.00 ft	150.00 ml/min
3/17/2020 1:45 PM	05:00	6.08 pH	18.30 °C	85.75 µS/cm	1.57 mg/L	4.11 NTU	73.0 mV	19.50 ft	150.00 ml/min
3/17/2020 1:50 PM	10:00	6.08 pH	18.37 °C	87.45 µS/cm	1.54 mg/L	3.93 NTU	66.9 mV	19.70 ft	150.00 ml/min
3/17/2020 1:55 PM	15:00	6.09 pH	18.32 °C	88.54 µS/cm	2.34 mg/L	3.80 NTU	89.2 mV	20.00 ft	150.00 ml/min
3/17/2020 2:00 PM	20:00	6.09 pH	18.29 °C	89.42 µS/cm	2.71 mg/L	2.93 NTU	66.4 mV	20.30 ft	150.00 ml/min
3/17/2020 2:05 PM	25:00	6.08 pH	18.31 °C	88.16 µS/cm	2.44 mg/L	1.22 NTU	65.1 mV	20.40 ft	150.00 ml/min
3/17/2020 2:10 PM	30:00	6.08 pH	18.21 °C	89.07 µS/cm	2.55 mg/L	1.55 NTU	64.8 mV	20.40 ft	150.00 ml/min
3/17/2020 2:15 PM	35:00	6.09 pH	18.25 °C	89.51 µS/cm	2.85 mg/L	1.89 NTU	65.3 mV	20.40 ft	150.00 ml/min
3/17/2020 2:20 PM	40:00	6.09 pH	18.15 °C	87.81 µS/cm	2.46 mg/L	2.05 NTU	64.3 mV	20.40 ft	150.00 ml/min
3/17/2020 2:25 PM	45:00	6.09 pH	18.05 °C	88.30 µS/cm	2.54 mg/L	1.11 NTU	64.4 mV	20.40 ft	150.00 ml/min
3/17/2020 2:30 PM	50:00	6.09 pH	17.99 °C	88.63 µS/cm	2.67 mg/L	0.74 NTU	64.5 mV	20.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/17/2020 12:45:12 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.77 ft Total Depth: 29.77 ft Initial Depth to Water: 12.62 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time 1310, FB-3-3-17-20 @ 1300

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/17/2020 12:45 PM	00:00	5.90 pH	16.83 °C	80.09 µS/cm	2.63 mg/L		102.6 mV	12.62 ft	150.00 ml/min
3/17/2020 12:50 PM	05:00	5.89 pH	16.42 °C	80.61 µS/cm	0.75 mg/L	4.26 NTU	74.6 mV	12.70 ft	150.00 ml/min
3/17/2020 12:55 PM	10:00	5.89 pH	16.42 °C	80.59 µS/cm	0.51 mg/L	1.59 NTU	67.7 mV	12.70 ft	150.00 ml/min
3/17/2020 1:00 PM	15:00	5.88 pH	16.50 °C	80.50 µS/cm	0.46 mg/L	1.82 NTU	64.7 mV	12.70 ft	150.00 ml/min
3/17/2020 1:05 PM	20:00	5.88 pH	16.51 °C	80.47 µS/cm	0.48 mg/L	0.99 NTU	62.5 mV	12.70 ft	150.00 ml/min
3/17/2020 1:10 PM	25:00	5.88 pH	16.55 °C	80.31 µS/cm	0.38 mg/L	1.01 NTU	62.8 mV	12.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/18/2020 11:40:25 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.5 ft Total Depth: 37.5 ft Initial Depth to Water: 6.46 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 10.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 16.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time 1240

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/18/2020 11:40 AM	00:00	6.85 pH	19.56 °C	0.00 µS/cm	8.99 mg/L		48.4 mV	6.46 ft	180.00 ml/min
3/18/2020 11:45 AM	05:00	5.75 pH	16.52 °C	82.21 µS/cm	0.84 mg/L	13.00 NTU	83.1 mV	7.00 ft	180.00 ml/min
3/18/2020 11:50 AM	10:00	5.73 pH	16.39 °C	82.15 µS/cm	0.60 mg/L	7.05 NTU	105.1 mV	7.40 ft	180.00 ml/min
3/18/2020 11:55 AM	15:00	5.72 pH	16.33 °C	80.47 µS/cm	0.52 mg/L	5.42 NTU	94.9 mV	7.50 ft	180.00 ml/min
3/18/2020 12:00 PM	20:00	5.70 pH	16.33 °C	80.41 µS/cm	0.51 mg/L	8.21 NTU	89.5 mV	7.60 ft	180.00 ml/min
3/18/2020 12:05 PM	25:00	5.75 pH	16.22 °C	83.88 µS/cm	0.63 mg/L	13.00 NTU	65.0 mV	7.80 ft	180.00 ml/min
3/18/2020 12:10 PM	30:00	5.75 pH	16.33 °C	83.61 µS/cm	0.60 mg/L	6.22 NTU	84.5 mV	7.80 ft	180.00 ml/min
3/18/2020 12:15 PM	35:00	5.73 pH	16.20 °C	80.31 µS/cm	0.83 mg/L	13.00 NTU	62.3 mV	7.80 ft	180.00 ml/min
3/18/2020 12:20 PM	40:00	5.71 pH	16.51 °C	78.93 µS/cm	0.36 mg/L	4.91 NTU	54.9 mV	7.80 ft	180.00 ml/min
3/18/2020 12:22 PM	41:44	5.72 pH	16.51 °C	79.25 µS/cm	0.34 mg/L	4.50 NTU	65.6 mV	7.80 ft	180.00 ml/min
3/18/2020 12:25 PM	44:41	5.71 pH	16.55 °C	78.74 µS/cm	0.35 mg/L	4.44 NTU	66.9 mV	7.80 ft	180.00 ml/min
3/18/2020 12:25 PM	45:10	5.71 pH	16.55 °C	78.83 µS/cm	0.35 mg/L	4.09 NTU	66.9 mV	7.80 ft	180.00 ml/min
3/18/2020 12:30 PM	50:10	5.71 pH	16.67 °C	79.26 µS/cm	0.33 mg/L	2.82 NTU	51.6 mV	7.80 ft	180.00 ml/min
3/18/2020 12:35 PM	55:10	5.71 pH	16.69 °C	78.65 µS/cm	0.33 mg/L	2.55 NTU	51.3 mV	7.80 ft	180.00 ml/min
3/18/2020 12:40 PM	01:00:10	5.71 pH	16.78 °C	78.56 µS/cm	0.32 mg/L	3.15 NTU	50.6 mV	7.80 ft	180.00 ml/min

Low-Flow Test Report:

Test Date / Time: 3/18/2020 1:20:17 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61 ft Total Depth: 71 ft Initial Depth to Water: 3.55 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, 70s, sample time 1410

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/18/2020 1:20 PM	00:00	6.90 pH	18.72 °C	91.56 µS/cm	8.52 mg/L		94.1 mV	3.55 ft	200.00 ml/min
3/18/2020 1:25 PM	05:00	6.87 pH	18.31 °C	92.36 µS/cm	8.47 mg/L	1.22 NTU	65.2 mV	3.80 ft	200.00 ml/min
3/18/2020 1:30 PM	10:00	6.28 pH	18.11 °C	90.79 µS/cm	3.26 mg/L	0.51 NTU	66.1 mV	3.90 ft	200.00 ml/min
3/18/2020 1:35 PM	15:00	6.23 pH	18.11 °C	90.35 µS/cm	2.18 mg/L	0.66 NTU	85.1 mV	3.90 ft	200.00 ml/min
3/18/2020 1:40 PM	20:00	6.19 pH	18.20 °C	90.31 µS/cm	1.37 mg/L	0.25 NTU	60.3 mV	3.90 ft	200.00 ml/min
3/18/2020 1:45 PM	25:00	6.18 pH	18.41 °C	90.62 µS/cm	1.09 mg/L	0.22 NTU	56.7 mV	3.90 ft	200.00 ml/min
3/18/2020 1:50 PM	30:00	6.18 pH	18.56 °C	89.76 µS/cm	1.11 mg/L	0.20 NTU	55.6 mV	3.90 ft	200.00 ml/min
3/18/2020 1:55 PM	35:00	6.18 pH	18.47 °C	90.31 µS/cm	0.96 mg/L	0.23 NTU	54.4 mV	3.90 ft	200.00 ml/min
3/18/2020 2:00 PM	40:00	6.17 pH	18.36 °C	90.36 µS/cm	0.79 mg/L	0.18 NTU	53.0 mV	3.90 ft	200.00 ml/min
3/18/2020 2:05 PM	45:00	6.17 pH	18.65 °C	89.56 µS/cm	0.70 mg/L	0.28 NTU	52.3 mV	3.90 ft	200.00 ml/min
3/18/2020 2:10 PM	50:00	6.16 pH	18.71 °C	89.99 µS/cm	0.70 mg/L	0.24 NTU	64.5 mV	3.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/18/2020 2:30:51 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.3 ft Total Depth: 38.3 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 8.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, 70s, sample time-1450

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/18/2020 2:30 PM	00:00	6.83 pH	24.96 °C	0.00 µS/cm	8.10 mg/L		60.5 mV	10.10 ft	150.00 ml/min
3/18/2020 2:35 PM	04:28	5.46 pH	19.59 °C	59.09 µS/cm	2.70 mg/L	1.28 NTU	358.1 mV	10.90 ft	150.00 ml/min
3/18/2020 2:40 PM	09:28	5.46 pH	18.87 °C	59.62 µS/cm	2.54 mg/L	1.22 NTU	280.5 mV	10.90 ft	150.00 ml/min
3/18/2020 2:45 PM	14:28	5.46 pH	18.78 °C	59.59 µS/cm	2.50 mg/L	1.04 NTU	305.9 mV	10.90 ft	150.00 ml/min
3/18/2020 2:50 PM	19:28	5.45 pH	18.56 °C	59.93 µS/cm	2.44 mg/L	1.68 NTU	315.9 mV	10.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/18/2020 11:16:01 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-22 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 67.15 ft Total Depth: 77.15 ft Initial Depth to Water: 20.19 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 72 ft Estimated Total Volume Pumped: 3.7 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Correct starting WL 20.19

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/18/2020 11:16 AM	00:00	6.99 pH	17.47 °C	116.43 µS/cm	4.67 mg/L		24.7 mV	20.19 ft	115.00 ml/min
3/18/2020 11:21 AM	05:00	6.94 pH	17.01 °C	117.54 µS/cm	4.02 mg/L		26.8 mV	20.50 ft	115.00 ml/min
3/18/2020 11:22 AM	06:25	6.93 pH	17.00 °C	117.25 µS/cm	3.99 mg/L	1.00 NTU	25.9 mV	20.80 ft	115.00 ml/min
3/18/2020 11:27 AM	11:25	6.92 pH	16.92 °C	117.26 µS/cm	3.95 mg/L	1.36 NTU	29.1 mV	20.80 ft	115.00 ml/min
3/18/2020 11:32 AM	16:25	6.90 pH	16.91 °C	117.08 µS/cm	3.92 mg/L	0.83 NTU	31.2 mV	20.80 ft	115.00 ml/min
3/18/2020 11:37 AM	21:25	6.89 pH	16.92 °C	117.34 µS/cm	3.88 mg/L	0.98 NTU	33.1 mV	20.80 ft	115.00 ml/min
3/18/2020 11:42 AM	26:25	6.85 pH	16.93 °C	116.53 µS/cm	3.80 mg/L	0.75 NTU	35.2 mV	20.80 ft	115.00 ml/min

Samples

Sample ID:	Description:
GWC-22	Collected at 1143. 62F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/18/2020 1:01:13 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.05 ft Total Depth: 68.05 ft Initial Depth to Water: 31.75 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 63.05 ft Estimated Total Volume Pumped: 4900 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 1.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 31.75,

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/18/2020 1:01 PM	00:00	6.09 pH	17.76 °C	45.49 µS/cm	5.16 mg/L		76.1 mV	31.75 ft	140.00 ml/min
3/18/2020 1:06 PM	05:00	6.09 pH	17.81 °C	45.52 µS/cm	5.13 mg/L		71.8 mV	32.30 ft	140.00 ml/min
3/18/2020 1:11 PM	10:00	6.08 pH	17.85 °C	46.01 µS/cm	5.09 mg/L	9.38 NTU	72.4 mV	32.80 ft	140.00 ml/min
3/18/2020 1:16 PM	15:00	6.07 pH	18.01 °C	45.38 µS/cm	5.07 mg/L	6.92 NTU	73.5 mV	33.10 ft	140.00 ml/min
3/18/2020 1:21 PM	20:00	6.06 pH	17.94 °C	45.27 µS/cm	5.06 mg/L	8.58 NTU	74.3 mV	33.10 ft	140.00 ml/min
3/18/2020 1:26 PM	25:00	6.06 pH	17.98 °C	45.08 µS/cm	5.04 mg/L	7.41 NTU	74.7 mV	33.10 ft	140.00 ml/min
3/18/2020 1:31 PM	30:00	6.06 pH	17.92 °C	45.32 µS/cm	5.04 mg/L	6.56 NTU	75.1 mV	33.10 ft	140.00 ml/min
3/18/2020 1:36 PM	35:00	6.06 pH	17.84 °C	45.31 µS/cm	5.03 mg/L	4.62 NTU	75.7 mV	33.10 ft	140.00 ml/min

Samples

Sample ID:	Description:
GWC-23	Collected at 1336. 67F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/12/2020 10:56:00 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.1 ft Total Depth: 51.1 ft Initial Depth to Water: 35.34 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 45 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 7.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time 1135

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/12/2020 10:56 AM	00:00	7.33 pH	19.63 °C	0.00 µS/cm	9.02 mg/L		66.8 mV	35.34 ft	75.00 ml/min
3/12/2020 11:01 AM	05:00	5.38 pH	18.36 °C	36.61 µS/cm	7.90 mg/L	5.71 NTU	129.7 mV	35.10 ft	75.00 ml/min
3/12/2020 11:06 AM	10:00	5.32 pH	18.12 °C	30.66 µS/cm	7.54 mg/L	4.95 NTU	117.8 mV	35.40 ft	75.00 ml/min
3/12/2020 11:11 AM	15:00	5.30 pH	18.23 °C	29.96 µS/cm	7.48 mg/L	3.27 NTU	111.6 mV	36.80 ft	75.00 ml/min
3/12/2020 11:16 AM	20:00	5.31 pH	18.47 °C	29.42 µS/cm	7.40 mg/L	3.66 NTU	108.0 mV	36.00 ft	75.00 ml/min
3/12/2020 11:21 AM	25:00	5.31 pH	18.61 °C	29.12 µS/cm	7.40 mg/L	3.98 NTU	106.2 mV	36.00 ft	75.00 ml/min
3/12/2020 11:26 AM	30:00	5.32 pH	18.78 °C	28.83 µS/cm	7.32 mg/L	3.51 NTU	104.4 mV	36.00 ft	75.00 ml/min
3/12/2020 11:31 AM	35:00	5.32 pH	18.77 °C	28.67 µS/cm	7.36 mg/L	3.28 NTU	104.0 mV	36.00 ft	75.00 ml/min
3/12/2020 11:36 AM	40:00	5.33 pH	18.79 °C	28.53 µS/cm	7.32 mg/L	4.11 NTU	103.4 mV	36.00 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2020 12:30:28 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.23 ft Total Depth: 61.23 ft Initial Depth to Water: 46.1 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 4.125 L Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 3.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy , sample time 1325, 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/12/2020 12:30 PM	00:00	6.51 pH	20.84 °C	90.95 µS/cm	5.58 mg/L	13.00 NTU	121.5 mV	46.10 ft	60.00 ml/min
3/12/2020 12:35 PM	05:00	6.70 pH	20.65 °C	105.52 µS/cm	3.59 mg/L	9.45 NTU	83.0 mV	46.20 ft	60.00 ml/min
3/12/2020 12:40 PM	10:00	6.69 pH	21.46 °C	106.18 µS/cm	2.87 mg/L	11.00 NTU	73.4 mV	46.40 ft	60.00 ml/min
3/12/2020 12:45 PM	15:00	6.66 pH	21.66 °C	105.22 µS/cm	2.45 mg/L	10.00 NTU	69.1 mV	46.40 ft	60.00 ml/min
3/12/2020 12:50 PM	20:00	6.55 pH	20.01 °C	103.31 µS/cm	2.23 mg/L	8.61 NTU	66.7 mV	46.40 ft	60.00 ml/min
3/12/2020 12:55 PM	25:00	6.54 pH	19.55 °C	102.22 µS/cm	2.09 mg/L	8.13 NTU	67.4 mV	46.40 ft	60.00 ml/min
3/12/2020 1:00 PM	30:00	6.47 pH	19.50 °C	101.05 µS/cm	2.07 mg/L	5.62 NTU	66.9 mV	46.40 ft	60.00 ml/min
3/12/2020 1:05 PM	35:00	6.44 pH	19.63 °C	100.50 µS/cm	2.07 mg/L	7.53 NTU	66.3 mV	46.40 ft	60.00 ml/min
3/12/2020 1:10 PM	40:00	6.42 pH	19.67 °C	99.72 µS/cm	2.10 mg/L	7.29 NTU	66.5 mV	46.40 ft	60.00 ml/min
3/12/2020 1:15 PM	45:00	6.41 pH	19.72 °C	99.21 µS/cm	2.21 mg/L	5.31 NTU	66.7 mV	46.40 ft	60.00 ml/min
3/12/2020 1:20 PM	50:00	6.40 pH	19.85 °C	99.07 µS/cm	2.23 mg/L	5.83 NTU	66.3 mV	46.40 ft	60.00 ml/min
3/12/2020 1:25 PM	55:00	6.40 pH	20.17 °C	98.87 µS/cm	2.20 mg/L	4.91 NTU	67.0 mV	46.40 ft	60.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/13/2020 8:40:10 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-26 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.43 ft Total Depth: 59.43 ft Initial Depth to Water: 21.62 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time 0910

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/13/2020 8:40 AM	00:00	6.35 pH	18.96 °C	187.92 µS/cm	9.06 mg/L		194.4 mV	21.62 ft	80.00 ml/min
3/13/2020 8:45 AM	05:00	5.62 pH	17.02 °C	67.91 µS/cm	7.13 mg/L	3.29 NTU	143.9 mV	22.00 ft	80.00 ml/min
3/13/2020 8:50 AM	10:00	5.53 pH	16.82 °C	53.03 µS/cm	7.41 mg/L	3.82 NTU	129.0 mV	22.00 ft	80.00 ml/min
3/13/2020 8:55 AM	15:00	5.53 pH	16.78 °C	51.21 µS/cm	7.39 mg/L	3.38 NTU	117.7 mV	22.00 ft	80.00 ml/min
3/13/2020 9:00 AM	20:00	5.53 pH	16.82 °C	50.45 µS/cm	7.39 mg/L	3.56 NTU	111.4 mV	22.00 ft	80.00 ml/min
3/13/2020 9:05 AM	25:00	5.52 pH	16.85 °C	50.19 µS/cm	7.38 mg/L	2.11 NTU	153.9 mV	22.00 ft	80.00 ml/min
3/13/2020 9:10 AM	30:00	5.52 pH	16.85 °C	49.85 µS/cm	7.41 mg/L	2.16 NTU	151.9 mV	22.00 ft	80.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2020 2:15:28 PM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-27 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60.83 ft Total Depth: 70.83 ft Initial Depth to Water: 35.05 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 11.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy,60s,sample time 1455

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/12/2020 2:15 PM	00:00	5.44 pH	21.17 °C	29.21 µS/cm	3.62 mg/L		139.8 mV	35.05 ft	75.00 ml/min
3/12/2020 2:20 PM	05:00	5.42 pH	19.76 °C	28.96 µS/cm	3.12 mg/L	4.92 NTU	108.3 mV	35.60 ft	75.00 ml/min
3/12/2020 2:25 PM	10:00	5.42 pH	19.50 °C	28.99 µS/cm	2.98 mg/L	3.65 NTU	101.1 mV	36.00 ft	75.00 ml/min
3/12/2020 2:30 PM	15:00	5.41 pH	19.48 °C	28.87 µS/cm	2.91 mg/L	2.72 NTU	98.6 mV	36.00 ft	75.00 ml/min
3/12/2020 2:35 PM	20:00	5.41 pH	19.45 °C	28.86 µS/cm	2.86 mg/L	1.69 NTU	96.9 mV	36.00 ft	75.00 ml/min
3/12/2020 2:40 PM	25:00	5.41 pH	19.41 °C	28.55 µS/cm	2.80 mg/L	1.59 NTU	96.1 mV	36.00 ft	75.00 ml/min
3/12/2020 2:45 PM	30:00	5.39 pH	19.33 °C	28.12 µS/cm	2.83 mg/L	1.43 NTU	96.2 mV	36.00 ft	75.00 ml/min
3/12/2020 2:50 PM	35:00	5.37 pH	19.32 °C	27.54 µS/cm	2.89 mg/L	1.02 NTU	95.9 mV	36.00 ft	75.00 ml/min
3/12/2020 2:55 PM	40:00	5.36 pH	19.32 °C	27.02 µS/cm	2.98 mg/L	0.96 NTU	96.3 mV	36.00 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2020 2:05:11 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-30 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.58 ft Total Depth: 49.58 ft Initial Depth to Water: 21.07 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 44.58 ft Estimated Total Volume Pumped: 4900 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 2.73 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/11/2020 2:05 PM	00:00	6.10 pH	19.90 °C	56.93 µS/cm	5.77 mg/L		76.7 mV	21.07 ft	140.00 ml/min
3/11/2020 2:10 PM	05:00	6.07 pH	18.27 °C	59.46 µS/cm	5.83 mg/L	0.54 NTU	89.3 mV	22.70 ft	140.00 ml/min
3/11/2020 2:15 PM	10:00	6.07 pH	18.18 °C	59.65 µS/cm	5.84 mg/L	0.39 NTU	83.7 mV	22.70 ft	140.00 ml/min
3/11/2020 2:20 PM	15:00	6.06 pH	18.03 °C	59.36 µS/cm	5.87 mg/L	1.12 NTU	81.7 mV	23.50 ft	140.00 ml/min
3/11/2020 2:25 PM	20:00	6.05 pH	17.87 °C	59.28 µS/cm	5.88 mg/L	0.86 NTU	80.7 mV	23.80 ft	140.00 ml/min
3/11/2020 2:30 PM	25:00	6.05 pH	17.80 °C	58.55 µS/cm	5.88 mg/L	0.80 NTU	56.5 mV	23.80 ft	140.00 ml/min
3/11/2020 2:35 PM	30:00	6.04 pH	17.76 °C	58.52 µS/cm	5.89 mg/L	0.42 NTU	55.9 mV	23.80 ft	140.00 ml/min
3/11/2020 2:40 PM	35:00	6.04 pH	17.71 °C	58.47 µS/cm	5.88 mg/L	0.80 NTU	55.6 mV	23.80 ft	140.00 ml/min

Samples

Sample ID:	Description:
GWC-30	Collected at 1440. 67F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/17/2020 9:40:07 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-31 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.86 ft Total Depth: 36.86 ft Initial Depth to Water: 28.61 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 2 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy, 60s, sample time 1000

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/17/2020 9:40 AM	00:00	8.92 pH	15.03 °C	0.33 µS/cm	9.93 mg/L		215.3 mV	28.61 ft	100.00 ml/min
3/17/2020 9:45 AM	05:00	6.84 pH	14.08 °C	88.06 µS/cm	9.87 mg/L	11.00 NTU	151.9 mV	28.80 ft	100.00 ml/min
3/17/2020 9:50 AM	10:00	6.11 pH	15.12 °C	96.49 µS/cm	9.08 mg/L	10.00 NTU	159.7 mV	29.00 ft	100.00 ml/min
3/17/2020 9:55 AM	15:00	6.14 pH	15.08 °C	95.64 µS/cm	8.82 mg/L	9.59 NTU	133.7 mV	29.30 ft	100.00 ml/min
3/17/2020 10:00 AM	20:00	6.15 pH	14.85 °C	94.45 µS/cm	8.74 mg/L	9.86 NTU	121.2 mV	29.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/18/2020 10:00:30 AM

Project: Plant Wansley - Landfill

Operator Name: Jordan Berisford

Location Name: GWC-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.05 ft Total Depth: 31.05 ft Initial Depth to Water: 25.02 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 22.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Cloudy,60s, sample time-1100

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
3/18/2020 10:00 AM	00:00	7.50 pH	17.88 °C	7.03 µS/cm	9.31 mg/L		270.0 mV	25.02 ft	125.00 ml/min
3/18/2020 10:05 AM	05:00	6.02 pH	16.47 °C	121.32 µS/cm	9.18 mg/L	22.00 NTU	153.6 mV	25.20 ft	125.00 ml/min
3/18/2020 10:10 AM	10:00	6.07 pH	16.48 °C	109.33 µS/cm	6.01 mg/L	11.00 NTU	119.9 mV	25.30 ft	125.00 ml/min
3/18/2020 10:15 AM	15:00	6.07 pH	16.64 °C	106.70 µS/cm	6.70 mg/L	7.05 NTU	103.1 mV	25.50 ft	125.00 ml/min
3/18/2020 10:20 AM	20:00	6.08 pH	16.79 °C	106.43 µS/cm	6.76 mg/L	6.21 NTU	138.4 mV	25.60 ft	125.00 ml/min
3/18/2020 10:25 AM	25:00	6.23 pH	16.64 °C	124.29 µS/cm	3.48 mg/L	4.82 NTU	58.3 mV	25.70 ft	125.00 ml/min
3/18/2020 10:30 AM	30:00	6.19 pH	16.87 °C	119.94 µS/cm	3.27 mg/L	2.30 NTU	60.7 mV	26.90 ft	125.00 ml/min
3/18/2020 10:35 AM	35:00	6.18 pH	17.00 °C	117.45 µS/cm	3.53 mg/L	1.99 NTU	62.8 mV	26.10 ft	125.00 ml/min
3/18/2020 10:40 AM	40:00	6.17 pH	16.98 °C	115.72 µS/cm	3.79 mg/L	2.66 NTU	85.1 mV	26.30 ft	125.00 ml/min
3/18/2020 10:45 AM	45:00	6.16 pH	17.00 °C	113.67 µS/cm	4.21 mg/L	2.36 NTU	89.3 mV	26.50 ft	125.00 ml/min
3/18/2020 10:50 AM	50:00	6.14 pH	17.00 °C	110.20 µS/cm	5.07 mg/L	1.55 NTU	71.1 mV	26.70 ft	125.00 ml/min
3/18/2020 10:55 AM	55:00	6.13 pH	17.04 °C	108.99 µS/cm	5.39 mg/L	2.10 NTU	72.9 mV	26.80 ft	125.00 ml/min
3/18/2020 11:00 AM	01:00:00	6.13 pH	17.05 °C	108.89 µS/cm	5.47 mg/L	2.54 NTU	96.3 mV	26.90 ft	125.00 ml/min

Low-Flow Test Report:

Test Date / Time: 3/12/2020 12:49:27 PM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.99 ft Total Depth: 23.99 ft Initial Depth to Water: 19.7 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 3455 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.6 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/12/2020 12:49 PM	00:00	7.21 pH	28.56 °C	0.00 µS/cm	7.50 mg/L		60.2 mV	19.70 ft	100.00 ml/min
3/12/2020 12:54 PM	05:00	6.45 pH	19.31 °C	159.94 µS/cm	7.05 mg/L	2.92 NTU	75.0 mV	21.20 ft	100.00 ml/min
3/12/2020 12:59 PM	10:00	6.46 pH	18.49 °C	152.42 µS/cm	7.34 mg/L	1.29 NTU	104.6 mV	21.30 ft	100.00 ml/min
3/12/2020 1:04 PM	15:00	6.46 pH	18.43 °C	141.52 µS/cm	8.18 mg/L	1.81 NTU	104.3 mV	21.30 ft	100.00 ml/min
3/12/2020 1:09 PM	20:00	6.37 pH	18.38 °C	148.19 µS/cm	7.68 mg/L	1.10 NTU	103.8 mV	21.30 ft	100.00 ml/min
3/12/2020 1:14 PM	25:00	6.38 pH	18.34 °C	156.54 µS/cm	6.93 mg/L	0.59 NTU	67.7 mV	21.30 ft	100.00 ml/min
3/12/2020 1:19 PM	30:00	6.40 pH	18.34 °C	159.68 µS/cm	6.76 mg/L	0.88 NTU	97.5 mV	21.30 ft	100.00 ml/min
3/12/2020 1:24 PM	34:33	6.37 pH	18.50 °C	161.89 µS/cm	6.90 mg/L	0.74 NTU	98.5 mV	21.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
GWC-33	Collected at 1324. 70F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/11/2020 11:04:05 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-34 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.25 ft Total Depth: 51.25 ft Initial Depth to Water: 13.25 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 46.25 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

63F overcast. Starting WL 13.25

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/11/2020 11:04 AM	00:00	5.88 pH	17.18 °C	50.56 µS/cm	3.16 mg/L		100.3 mV	3.90 ft	200.00 ml/min
3/11/2020 11:09 AM	05:00	5.86 pH	17.11 °C	50.79 µS/cm	3.21 mg/L	3.23 NTU	68.7 mV	4.20 ft	200.00 ml/min
3/11/2020 11:14 AM	10:00	5.92 pH	17.09 °C	51.01 µS/cm	3.55 mg/L	1.10 NTU	65.7 mV	4.20 ft	200.00 ml/min
3/11/2020 11:19 AM	15:00	5.85 pH	17.18 °C	51.88 µS/cm	3.87 mg/L	1.11 NTU	65.6 mV	4.20 ft	200.00 ml/min
3/11/2020 11:24 AM	20:00	5.91 pH	17.18 °C	52.01 µS/cm	3.92 mg/L	1.38 NTU	65.2 mV	4.20 ft	200.00 ml/min
3/11/2020 11:29 AM	25:00	5.88 pH	17.18 °C	52.20 µS/cm	3.95 mg/L	0.76 NTU	94.6 mV	4.20 ft	200.00 ml/min
3/11/2020 11:34 AM	30:00	5.96 pH	17.27 °C	52.06 µS/cm	3.97 mg/L	0.71 NTU	94.5 mV	4.20 ft	200.00 ml/min
3/11/2020 11:39 AM	35:00	5.84 pH	17.36 °C	51.78 µS/cm	3.98 mg/L	1.28 NTU	93.6 mV	4.20 ft	200.00 ml/min
3/11/2020 11:44 AM	40:00	5.86 pH	17.30 °C	51.70 µS/cm	4.00 mg/L	0.54 NTU	93.2 mV	4.20 ft	200.00 ml/min
3/11/2020 11:49 AM	45:00	5.93 pH	17.38 °C	51.61 µS/cm	4.00 mg/L	0.50 NTU	92.7 mV	4.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWC-34	

Low-Flow Test Report:

Test Date / Time: 3/11/2020 10:10:23 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: GWC-35 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.78 ft Total Depth: 40.78 ft Initial Depth to Water: 7.69 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 35.78 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL: 7.69

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/11/2020 10:10 AM	00:00	5.58 pH	16.82 °C	78.09 µS/cm	2.66 mg/L		121.2 mV	7.69 ft	200.00 ml/min
3/11/2020 10:15 AM	05:00	5.60 pH	17.11 °C	54.23 µS/cm	2.57 mg/L	0.72 NTU	84.4 mV	7.70 ft	200.00 ml/min
3/11/2020 10:20 AM	10:00	5.60 pH	17.14 °C	51.33 µS/cm	2.58 mg/L	0.65 NTU	123.2 mV	7.70 ft	200.00 ml/min
3/11/2020 10:25 AM	15:00	5.60 pH	17.23 °C	50.23 µS/cm	2.58 mg/L	0.63 NTU	121.8 mV	7.70 ft	200.00 ml/min
3/11/2020 10:30 AM	20:00	5.61 pH	17.27 °C	50.22 µS/cm	2.58 mg/L	0.58 NTU	122.2 mV	7.70 ft	200.00 ml/min
3/11/2020 10:35 AM	25:00	5.62 pH	17.27 °C	50.03 µS/cm	2.58 mg/L	0.53 NTU	122.1 mV	7.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
GWC-35	Collected at 1035.

Low-Flow Test Report:

Test Date / Time: 3/19/2020 11:13:36 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: SWA-1	Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 0 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/19/2020 11:13 AM	00:00	7.01 pH	20.23 °C	29.50 µS/cm	9.28 mg/L		60.3 mV		0.00 ml/min
3/19/2020 11:14 AM	00:30	7.01 pH	20.16 °C	29.44 µS/cm	9.37 mg/L	6.87 NTU	55.8 mV		0.00 ml/min

Samples

Sample ID:	Description:
SWA-1	Collected at 1114. 64F overcast

Low-Flow Test Report:

Test Date / Time: 3/19/2020 10:24:48 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: SWC-5	Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 0 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/19/2020 10:24 AM	00:00	6.83 pH	20.24 °C	0.42 µS/cm	8.98 mg/L		150.3 mV		0.00 ml/min
3/19/2020 10:25 AM	00:30	6.76 pH	20.12 °C	198.94 µS/cm	8.59 mg/L	8.42 NTU	75.1 mV		0.00 ml/min

Samples

Sample ID:	Description:
SWC-5	Collected at 1025 62F overcast.

Low-Flow Test Report:

Test Date / Time: 3/19/2020 10:50:26 AM

Project: Plant Wansley - Landfill (5)

Operator Name: O. Fuquea

Location Name: SWC-7	Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 0 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/19/2020 10:50 AM	00:00	6.59 pH	19.07 °C	60.94 µS/cm	8.73 mg/L		53.1 mV		0.00 ml/min
3/19/2020 10:50 AM	00:30	6.59 pH	19.10 °C	60.84 µS/cm	8.75 mg/L	33.60 NTU	51.3 mV		0.00 ml/min

Samples

Sample ID:	Description:
SWC-7	Collected at 1051. 64F overcast.

Low-Flow Test Report:

Test Date / Time: 3/19/2020 10:11:48 AM

Project: Plant Wansley - Landfill

Operator Name: O. Fuquea

Location Name: SWC-8 Initial Depth to Water: 0 m	Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 0 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/19/2020 10:11 AM	00:00	6.37 pH	17.72 °C	267.61 µS/cm	4.87 mg/L		204.4 mV	0.00 ft	0.00 ml/min
3/19/2020 10:12 AM	01:00	6.37 pH	18.04 °C	263.94 µS/cm	4.77 mg/L		204.7 mV	0.00 ft	0.00 ml/min

Samples

Sample ID:	Description:
SWC-8	Sampled at 1013. 63F overcast.

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-105385-1
Client Project/Site: CCR - Plant Wansley Landfill

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
5/22/2020 12:35:40 PM
Debra Bowen, Project Manager I
(412)963-2445
debra.bowen@testamericainc.com

Designee for
Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Job ID: 180-105385-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-105385-1**

Receipt

The sample was received on 5/6/2020 9:20 AM; the sample arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 2.6°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20 *
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-105385-1	GWC-15	Ground Water	05/04/20 12:35	05/06/20 09:20	

1

2

3

4

5

6

7

8

9

10

11

12

13

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Client Sample ID: GWC-15

Lab Sample ID: 180-105385-1

Date Collected: 05/04/20 12:35

Matrix: Ground Water

Date Received: 05/06/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	314947	05/08/20 15:14	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			316036	05/20/20 00:29	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	Field Sampling		1			315129	05/04/20 12:35	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

JL = James Lyu

Batch Type: Analysis

FDS = Sampler Field

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Client Sample ID: GWC-15

Date Collected: 05/04/20 12:35

Date Received: 05/06/20 09:20

Lab Sample ID: 180-105385-1

Matrix: Ground Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.049	J	0.080	0.039	mg/L		05/08/20 15:14	05/20/20 00:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.90				SU			05/04/20 12:35	1

- 1
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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-314947/1-A
Matrix: Water
Analysis Batch: 316036

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		05/08/20 15:14	05/19/20 22:50	1

Lab Sample ID: LCS 180-314947/2-A
Matrix: Water
Analysis Batch: 316036

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.24		mg/L		99	80 - 120

- 1
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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill

Job ID: 180-105385-1

Metals

Prep Batch: 314947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105385-1	GWC-15	Total Recoverable	Ground Water	3005A	
MB 180-314947/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-314947/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 316036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105385-1	GWC-15	Total Recoverable	Ground Water	EPA 6020B	314947
MB 180-314947/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	314947
LCS 180-314947/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	314947

Field Service / Mobile Lab

Analysis Batch: 315129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105385-1	GWC-15	Total/NA	Ground Water	Field Sampling	

Sampler: Owens Fuquea
 Lab PM: Bortol, Veronica
 Client Contact: JoJu Abraham
 Phone: 770-594-5998
 E-Mail: veronica.bortol@testamericainc.com
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: JAbraham@southerco.com
 Project # 18019922
 SOW#: Wansley Landfill
 Site: Wansley Landfill

Carrier Tracking No(s):

Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteloid, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Boron	Special Instructions/Note:
GWC-15	5/4/20	12:35	G	Water	N	N	X	1 pH: 6.90
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				

Due Date Requested:

TAT Requested (days): *Standard*

PO #: SCS10347656

WO #:

Project #: 18019922

SOW#: Wansley Landfill

Special Instructions/Note:
pH: 6.90
180-105385 Chain of Custody

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: *5/5/2020 1040* Company: *ACC*

Relinquished by: _____ Date/Time: *5/5/20 16:00* Company: *TA*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No

Custody Seal No.:

Method of Shipment:
 Received by: _____ Date/Time: *5/5/20 1040* Company: *TA*
 Received by: _____ Date/Time: *5/6/20 920* Company: *EMON*
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105385-1

Login Number: 105385

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Low-Flow Test Report:

Test Date / Time: 5/4/2020 12:10:06 PM

Project: Plant Wansley Landfill

Operator Name: O. Fuquea

Location Name: GWC-15 Well Diameter: 2 in Casing Type: pvc Screen Length: 10 ft Top of Screen: 41.06 ft Total Depth: 51.06 ft Initial Depth to Water: 6.19 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 5625 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714302
--	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/4/2020 12:10 PM	00:00	6.96 pH	20.12 °C	113.15 µS/cm	5.59 mg/L		94.0 mV	6.19 ft	225.00 ml/min
5/4/2020 12:15 PM	05:00	6.91 pH	19.72 °C	114.71 µS/cm	5.67 mg/L	0.72 NTU	90.8 mV	6.20 ft	225.00 ml/min
5/4/2020 12:20 PM	10:00	6.90 pH	19.81 °C	114.44 µS/cm	5.62 mg/L	0.75 NTU	90.2 mV	6.20 ft	225.00 ml/min
5/4/2020 12:25 PM	15:00	6.89 pH	19.89 °C	114.92 µS/cm	5.66 mg/L	0.92 NTU	89.9 mV	6.20 ft	225.00 ml/min
5/4/2020 12:30 PM	20:00	6.90 pH	19.80 °C	114.77 µS/cm	5.64 mg/L	1.15 NTU	89.2 mV	6.20 ft	225.00 ml/min
5/4/2020 12:35 PM	25:00	6.90 pH	19.69 °C	114.92 µS/cm	5.63 mg/L	0.65 NTU	89.1 mV	6.20 ft	225.00 ml/min

Samples

Sample ID:	Description:
GWC-15	Collected at 1235 @1235. Clear 78F.

Well Inspection Criteria

Facility Name: Wansley Landfill

Date: 3-9-20

Staff: O. Fuguea / J. Beris Ford

1 - Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Does the well require protection from traffic?
- d Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)

2 - Protective Outer Casing

- a Is the protective casing free from apparent damage?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings filled with pea gravel or sand?
- e Is the well locked, and is the lock in good working condition?

3 - Surface Pad

- a Is the well pad in good condition? (Not cracked or broken)
- b Does the well pad provide adequate surface seal and stability to the well?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean? (Not covered by soil or debris)

4 - Internal Well Casing

- a Does the well cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstruction from foreign objects ?
- c Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?

5 - Based on your professional judgment, is the well construction / location appropriate to:

- a Achieve the objectives of the facility Ground Water Monitoring Program?
- b Comply with the applicable regulatory requirements?

Well Condition Log

Date: 3-9-20

Initials: OF/JB

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
GWA-1	✓			
GWA-2	✓			
GWA-3	✓			
GWA-4	✓			
GWA-28	✓			
GWA-29	✓			
GWC-5	✓			
GWC-6	✓			
GWC-7	✓			
GWC-8	✓			
GWC-9	✓			
GWC-10	✓			
GWC-11	✓			
GWC-12	✓			
GWC-13	✓			
GWC-14	✓			
GWC-15	✓	✓ (Fixed)	✓	
GWC-16	✓			
GWC-17	✓	✓ (Fixed)	✓	
GWC-18	✓			
GWC-19	✓			
GWC-20	✓			
GWC-21	✓			
GWC-22	✓			
GWC-23	✓			
GWC-24	✓			
GWC-25	✓			
GWC-26	✓			
GWC-27	✓			
GWC-30	✓			
GWC-31	✓			
GWC-32	✓			
GWC-33	✓			
GWC-34	✓			
GWC-35	✓			

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

**Criteria is based on EPD well condition guidelines .

Facility Name: Wansley Landfill

Corrective Actions

Well ID

GWC-15	Deficiency Noted: <i>Cracked Pad</i>
	Action Taken: <i>Fixed - Filled with concrete repair + sealant</i>
GWC-17	Deficiency Noted: <i>Pea gravel low</i>
	Action Taken: <i>Filled with pea gravel</i>
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
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	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:

Well ID

Corrective Action Still Needed - *NA*

	Deficiency Noted:
	Deficiency Noted:
	Deficiency Noted: <i>NA</i>
	Deficiency Noted:
	Deficiency Noted:

Summary

Initials: *OF/JB* *All monitoring wells are in good condition and any needed repairs have been made*

Initials: Further corrective action is still needed - see list above

Staff: *O. Fuguea / J. Berisford*

Signature: *[Handwritten Signature]*

Date: *3-9-20*

**Criteria is based on EPD well condition guidelines .

APPENDIX B

ALTERNATE SOURCE DEMONSTRATIONS

Georgia Power Company
Plant Wansley CCR Landfill
EPD Permit No. 074-005D(LI)
Heard County

Alternate Source Demonstration
August 2020



Certification Statement

I hereby certify that this alternate source demonstration for the Georgia Power Company's Plant Wansley Coal Combustion Residual (CCR) Landfill, located in Carrollton, Georgia, was completed in accordance with 40 CFR §257.94(e)(2) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management, Rule 391-3-4-.14(23)(c).



Evan B. Perry, P.G.
Georgia Registered Professional
Geologist No. 1744
Originator
August 31, 2020



Richard T. Deason, P.E.
Georgia Registered Professional
Engineer No. 27467
Reviewer
August 31, 2020

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Tables

Table 1 – Summary of March 2020 SSIs

Table 2 – Summary of Metals Detections in Lithological Samples

Figures

Figure 1 – Site Map

Figure 2 – March 2020 Potentiometric Surface Map

Figure 3A – Tri-Linear Diagram

Figure 3B – Stiff Diagrams

Figure 4 – Geologic Map

Appendices

Appendix A – Summary of Previous ASDs

Appendix B – Previous ASDs

Appendix C – In-Situ Operators Manual

Appendix D – Interwell Statistics

1.0 Introduction

This alternate source demonstration (ASD) has been prepared pursuant to 40 CFR § 257.94(e)(2) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.14(23)(c), which allow the owner/operator to demonstrate that a source other than the unit caused the statistically significant increase (SSI). The objective of the ASD is to show that the SSIs identified by statistical analysis of the March 2020 data set resulted from an error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

SSIs were identified following statistical analysis of data collected during the March 2020 semiannual monitoring event (Groundwater Stats Consulting, LLC, 2020). The reported SSIs are for similar levels of constituents that have been previously addressed in other Plant Wansley Landfill ASDs. SSIs reported for the March 2020 data set are presented in Table 1, Summary of March 2020 SSIs.

Table 1. Summary of March 2020 SSIs

Constituent	Location	Concentration	Intrawell Prediction Limit
Appendix III Analytes			
pH	GWC-26	5.52	5.58 – 6.04
Sulfate	GWC-6	30	19
Sulfate	GWC-13	4.5	3.2
Sulfate	GWC-17	1.2	1.1
Sulfate	GWC-24	2.3	1.0
Sulfate	GWC-26	1.8	1.0
Sulfate	GWC-30	3.3	1.7
Sulfate	GWC-34	3.8	2.1
Sulfate	GWC-35	4.7	3.1
Appendix I Analytes			
Barium	GWC-19	0.13	0.11
Barium	GWC-21	0.056	0.035
Zinc	GWC-7	0.038	0.010
Zinc	GWC-8	0.044	0.0072
Zinc	GWC-9	0.0094	0.0085
Zinc	GWC-30	0.022	0.0090

Notes:

1. Appendix III refers to 40 CFR 257 and Appendix I refers to 40 CFR 258.
2. Units are milligrams per liter (mg/L), except Standard Units for pH.

As detailed in the following sections the newly reported March 2020 SSIs are for low levels of constituents based on intrawell statistical analysis. GPC is currently in the process of preparing a permit minor modification to allow for the use of interwell statistics and trend tests to identify if an initial intrawell exceedance is the result of natural variation rather than facility impacts to groundwater.

1.1 Background

Plant Wansley encompasses approximately 5,100 acres in northeast Heard County and southeast Carroll County on Liberty Church Road, approximately 12 miles southeast of the City of Carrollton. Georgia Power Company (GPC) Plant Wansley CCR Landfill (Site) comprises three cells within an approximate 73-acre disposal footprint. The facility is permitted to operate by the EPD [Permit No. 074-005D(LI)]. Figure 1, Site Map, depicts the location of Plant Wansley referenced to regional landmarks. A recent potentiometric surface map is provided for reference as Figure 2, March 2020 Potentiometric Surface Map.

All three cells (Cell 1 through 3) are lined with a 60-mil thick high-density polyethylene (HPDE) liner underlain by a geosynthetic clay liner (GCL), a 6-inch layer of compacted clay [maximum permeability of 1×10^{-5} centimeters per second (cm/sec)], and structural fill. A leachate collection and removal system overlies the liner system to remove liquids and reduce head pressure on the liner. Waste placement began in 2012 with most waste placement to date occurring in Cell 1 and a lesser amount in Cell 2. Cell 3 had no waste placement until 2019.

1.2 Previous ASDs

The natural occurrence and variability of pH, sulfate, barium, and zinc in Site earth materials and/or groundwater has been documented in previous ASDs. A complete list of previous ASDs is provided in Appendix A, Summary of Previous ASDs. This ASD builds on the previous submittals to address the additional SSIs. The following sections provide specific demonstrations to support that the waste unit is not the source of the SSIs. Information presented in the following sections was included in previous ASDs for barium, zinc, sulfate, and pH, but is included again below for reference (ACC, 2018, 2019, and 2020).

As documented in the April 2020 ASD, a suite of cations and anions were sampled from the entire Wansley Landfill groundwater monitoring network during the March 2020 monitoring event to identify any apparent geochemical differences between upgradient and downgradient monitoring wells (ACC, 2020). Geochemical fingerprinting of groundwater quality data demonstrates little difference between upgradient and downgradient water quality and the absence of a coal combustion residual (CCR) signature in downgradient Site groundwater. The lack of CCR impact to groundwater is consistent with construction of the unit (i.e., lined with a leachate collection system).

2.0 Alternate Source Demonstration

Based on the review of Site information and evaluation of data, the SSIs identified in Table 1 are not the result of a release from the CCR unit and are primarily due to natural occurrence and variability of the constituents in groundwater. Sampling or analytical-induced variability is also a factor in some cases. The following lines of evidence presented in previous ASDs, demonstrate that a release from the CCR Landfill is not the source of the SSIs and explain the likely cause:

- Reported intrawell SSIs are frequently the result of low variability during background resulting in conservatively low statistical limits. The low statistical limits are exceeded by even slight variability in groundwater quality. The intrawell SSIs presented in Table 1 would not be SSIs if compared to interwell statistical limits that allow for the inclusion of the full range of site background concentrations (i.e. the observed SSIs are within concentration ranges observed in upgradient wells).
- SSIs of primary CCR indicator parameters listed in Appendix III such as boron and chloride do not exhibit SSIs in these wells. A release from the CCR Landfill would result in multiple Appendix III constituent SSIs at elevated concentrations, and this has not occurred. Groundwater samples from these wells do not exhibit geochemical characteristics of groundwater that has been impacted by CCR materials.
- Prior ASDs have documented the natural occurrence and variability of these metals in Site earth materials and groundwater.
- Review of equipment and field blank data has identified low-level detections of sulfate, indicating that sampling or analytical variability has contributed to the low-level concentrations of the SSIs.
- Review of field data has identified the pH SSI was due to an instrumental accuracy error.

The following sections present further details regarding the evidence supporting the conclusion that the reported SSIs are not the result of a release from the CCR Landfill. Copies of the previous ASDs documenting the natural occurrence and variability of metals at the Site are provided for reference in Appendix B, Previous ASDs.

2.1 Review of Field Data

The 2018 ASD for pH determined that smarTROLL pH sensor accuracy is +/- 0.1 pH units within a range of 0 to 12 pH units. During the March 2020 monitoring event, the Atlantic Coast Consulting, Inc. (ACC) field team utilized a similar multiparameter sonde, the Aqua Troll 400 also manufactured by In-Situ, Inc. Based on a review of the Aqua Troll 400 operator's manual, the pH sensor accuracy is the same as the SmarTroll. As shown in Table 1, the pH reading at GWC-6 was 0.06 standard units below the intrawell prediction limit and therefore within the margin of instrumental error. Therefore, the alternative source for this pH SSI is an error in analysis. The user manual for the Aqua Troll 400 is included in Appendix C, In-Situ Operators Manual.

2.2 Absence of Appendix III SSIs

A release from the CCR Landfill would result in multiple Appendix III constituent SSIs at elevated concentrations and this has not occurred. Similar to the data discussed in the April 2020 ASD, no SSIs for CCR indicator Appendix III parameters occurred in the wells GWC-7, GWC-8, GWC-9, GWC-19, or GWC-21.

The locations of the sulfate SSIs do not have SSIs for other Appendix I or Appendix III parameters, except for the GWC-26 pH level discussed in Section 2.1 and zinc at GWC-30. Elevated concentrations of other parameters would be anticipated in the event of a unit related release.

Most notably, the mobile and sensitive CCR indicator boron was not detected above the reporting limit in wells with barium, zinc, and sulfate SSIs. An estimated concentration below the reporting limit “J” value for boron was reported for GWC-9. The occurrence of trace levels of boron at GWC-9 was addressed in the April 2018 ASD (ACC, 2018), indicating no release from the unit based on the March 2020 data set.

As shown in the April 2020 ASD, in addition to the absence of Appendix III SSIs, geochemical fingerprinting of groundwater quality data demonstrates little difference between upgradient and downgradient water quality and the absence of a CCR liquid signature in groundwater. A suite of cations and anions were sampled from the entire Wansley Landfill groundwater monitoring network to identify any apparent geochemical differences between upgradient and downgradient monitoring wells during the March 2020 semiannual groundwater monitoring event. Constituents released from coal ash will shift the relative and absolute abundances of cations and anions away from background conditions. These shifts become apparent when plotted on a tri-linear (Piper) or Stiff diagrams. The site-wide data set is depicted on Figure 3A and 3B, Tri-Linear Diagram and Stiff Diagrams.

As shown in Figure 3A, upgradient and downgradient groundwater data are generally comingled on the plot, indicating little discernable difference and that an outside influence such as a CCR release has not altered groundwater chemistry causing downgradient to be different from upgradient geochemistry. The data on Figure 3A reflect predominantly a calcium-bicarbonate type water and to a lesser extent, a sodium-bicarbonate type water. Thus, most samples indicate a natural groundwater composition (chemistry), reflecting background conditions.

Figure 3B presents a Stiff diagram for each Site groundwater monitoring well. The size of each diagram corresponds to overall ionic strength and the shape reflects ratios of cations and anions. A CCR impact would characteristically increase the ionic strength and shift ratios away from background. Based on a review of each diagram set, only GWC-14 shows some potential change from background conditions (i.e., pattern distinct from background ionic ratios and strength) which has been addressed in previous ASDs (GPC, 2017; ACC, April 2018).

Based on Appendix III statistical analysis results and geochemical comparison of groundwater quality, a release from the CCR Landfill has not occurred. Absent a release from the CCR Landfill, the SSIs listed in Table 1 cannot be the result of a release from the CCR Landfill and are the result of an alternate source.

2.3 Interwell Statistical Comparisons

The SSIs listed in Table 1 are based in intrawell prediction limits. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. Reported intrawell SSIs are frequently the result of low variability during background resulting in conservatively low statistical limits. The conservatively low intrawell statistical limits are exceeded by slight variability in groundwater quality.

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. When the barium, zinc, and sulfate SSIs are evaluated by interwell statistics, the concentrations no longer result in SSIs. Therefore, the intrawell SSIs are the apparent result of low background variability during the background monitoring period. Interwell statistics for barium, sulfate, and zinc are attached in Appendix D, Interwell Statistics.

In the case of sulfate, intrawell statistics may be particularly limited in accounting for the site-wide background range. GWA-3, an upgradient well, historically has the highest concentrations of sulfate of any site location (mean of 92 milligrams per liter - mg/L). This well is hydraulically upgradient from Cell 2 and minimal waste placement has occurred in Cell 2. The wells immediately adjacent to GWC-6 (GWC-5 and GWC-7), have produced average sulfate concentrations of 28 and 73 mg/L, respectively. The average for GWC-6 is 13 mg/L, and the current concentration of 30 mg/L is above that average. However, the concentration is within the range detected in nearby upgradient and sidegradient locations. It appears that there is a localized occurrence of sulfate above the site-wide average in this area of the site.

2.4 Low Background Variability and Lack of Trends

Based on a review of trend tests completed as part of the routine statistical analysis, there are no increasing trends identified for the sulfate and zinc SSIs. There are very slight increasing trends for the barium SSIs. However, a similar increasing barium trend is observed in an upgradient well (GWA-4), which is an indication of natural variability in groundwater unrelated to practices at the Site.

In addition, the lack of significant trends in the case of sulfate and zinc and gradual long-term variability for barium observed in these wells supports the conclusion that the SSIs are not the result of a release from the site. As reported in the *2020 Semiannual Groundwater Monitoring and Corrective Action Report*, the groundwater flow velocity at the Site is approximately 179 feet/year. With groundwater flow moving that rapidly, a release from the unit would manifest as a sudden and significant increase in groundwater concentrations. The absence of a sudden and significant increases in concentrations supports the conclusion that SSIs are the result of

gradual natural variability not accommodated by the background data set and are not the result of a release from the CCR unit.

2.5 Lack of Migration Pathway

Based on a review of the facility's Design and Operation Plans and recent aerial photographs (Figures 1 and 2), direct leakage from the cell areas is highly improbable. The landfill is a fully lined unit including a 60-mil thick high-density polyethylene (HDPE) liner underlain by a geosynthetic clay liner (GCL), a 6-inch layer of compacted clay (maximum permeability of 1×10^{-5} cm/sec), and structural fill. Two sedimentation basins and a return water pond capture all leachate, sluice water and storm water run-off generated in the lined cell areas. Additionally, very limited waste has been directed into Cells 2 and 3 and network wells in the vicinity of those cells should be particularly unimpacted by the unit. Based on a review of the SSIs shown in Table 1, the majority (9 of 15) of the locations are for monitoring wells downgradient from Cells 2 and 3. The SSIs appear to occur throughout the site regardless of any relationship to waste placement. The wide-spread occurrence of the SSIs confirms the lack of a defined migration pathway.

2.6 Review of Quality Control Sample Data

Review of equipment and field blank data identified low-level detections of sulfate, indicating that sampling or analytical variability has contributed to the low-level concentrations of the SSIs (ACC, 2020). Four equipment blanks and four field blanks were collected during the March 2020 monitoring event. Field and equipment blanks were prepared using prepackaged ASTM Type I reagent grade water. Therefore, any detections in sample blanks are a function of handling in the field or are introduced by the laboratory either during sample preparation or as an error in analysis. Laboratory analytical results and data validation of equipment and field blanks collected in March 2020 are presented in the 2020 Semiannual Groundwater Monitoring and Corrective Action Report (ACC, 2020).

Sulfate was detected in half of the equipment and field blank samples. A maximum sulfate concentration of 2.0 mg/L was detected in a field blank sample. Except for the GWC-6 result, the maximum field blank concentration is sufficient to entirely account for the sulfate SSIs. The occurrence of sulfate in blank samples indicate that laboratory or sampling procedures may be a contributing factor to the SSI concentrations.

2.7 Previous ASDs Documenting the Occurrence of Metals in Site Lithologies

As documented in April 2020 ASD, previously completed ASDs have extensively documented the natural occurrence of metals at the site. Seven rock samples were submitted for laboratory analysis as part of the Wansley Ash Pond ASD (ACC, 2019). The samples were collected from a variety of site lithologies including amphibolite, gneiss, schist, and quartzite and analyzed for compositional characteristics including trace metal concentrations. A summary of the frequency of detection and concentration range of relevant metals in rock samples is provided in Table 2, Summary of Metals Detections in Lithologic Samples. The 2017 ASD included in

Appendix B provides detailed descriptions of the Site lithologies. The lithologies present at Wansley Landfill are depicted in Figure 4, Geologic Map.

Based on a review of the Wansley Ash Pond ASD data, barium was present in all seven rock samples and zinc in six of seven samples. The Wansley Ash Pond ASD also included data showing that, although the trace metals are largely incorporated in silicate minerals, there is a degree of silicate mineral solubility that provides a mechanism to mobilize trace metals to groundwater. The wide-spread occurrence of trace metals in background samples (upgradient at Plant Wansley Ash Pond and Plant Wansley Landfill and pre-waste placement at Plant Wansley Landfill) collected at the Site further confirms a degree of mineral solubility under background conditions. The metals with one or more SSIs represent only a small percentage of silicate mineral composition by weight, however given that detected concentrations are at levels in the low micrograms per liter ($\mu\text{g}/\text{L}$) range native mineral solubility is a viable mechanism for the metals to occur in groundwater.

Table 2. Summary of Metals Detections in Lithologic Samples

Constituent	Detection Frequency in Rock Samples
Barium	Detected in 7 of 7 site rock samples with a compositional range of 0.007 to 0.127 %
Zinc	Detected in 6 of 7 site rock samples with a compositional range of 0.003 to 0.0121 %

Notes:

1. Rock samples collected for Wansley Ash Pond ASD (ACC, 2019)

As demonstrated in previous ASDs, natural earth materials at the site are a viable source for the metals detected in upgradient and downgradient wells at the site.

3.0 Summary and Recommendations

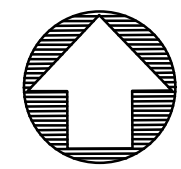
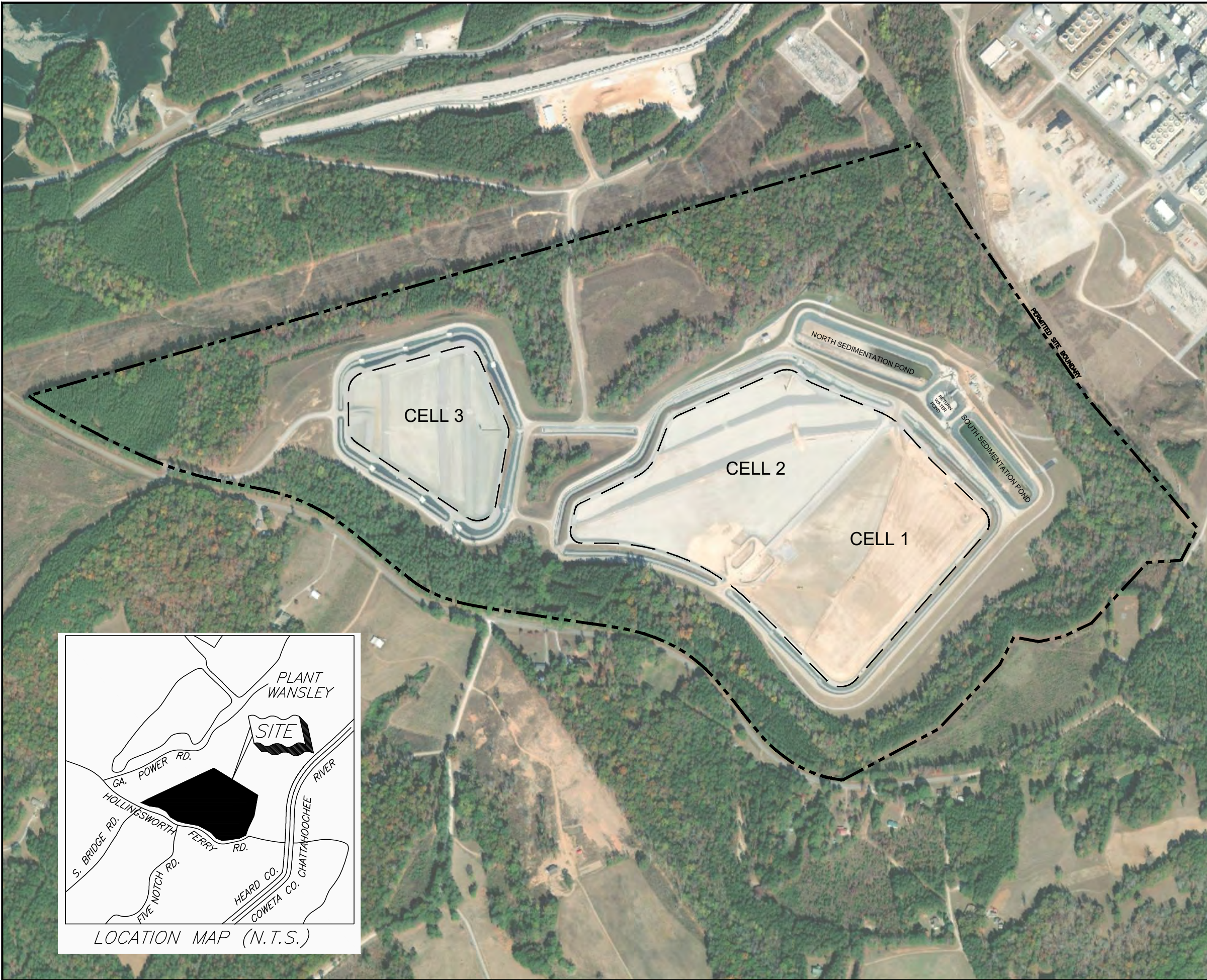
Based on the information presented in this ASD, the low-level SSIs presented in the 2020 Semiannual Groundwater Monitoring and Corrective Action Report are not attributed to a release from the CCR Landfill. The SSIs are for low levels of the same constituents addressed in previous ASDs and likely primarily the result of natural variation in groundwater quality not fully accommodated by the intrawell statistical analysis methods. Additional SSI sources include field instrumentation accuracy in the case of pH and laboratory and sampling procedures for sulfate. Therefore, Plant Wansley CCR Landfill will remain in detection monitoring. Detection monitoring results will continue to be presented in Annual and Semiannual Groundwater Monitoring and Corrective Action Reports.

4.0 References

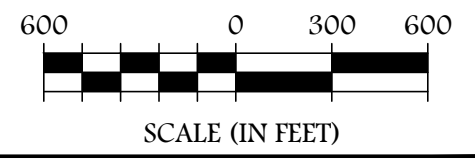
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FIGURES

F:\Industrial\04-Southern Company\10-Grainier Consulting Services\Plant Wansley\3-Semiannual O&M\2020 Landfill\2020 Landfill\2020 1st O&M\Figure\Plant Wansley LF - 1st 2020 Pot Imp.dwg 6/22/20 RYAN WALKER

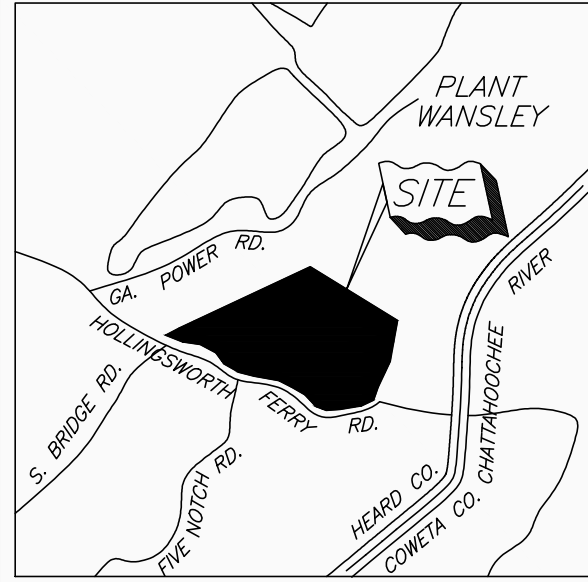


ACC
ATLANTIC COAST
CONSULTING, INC.



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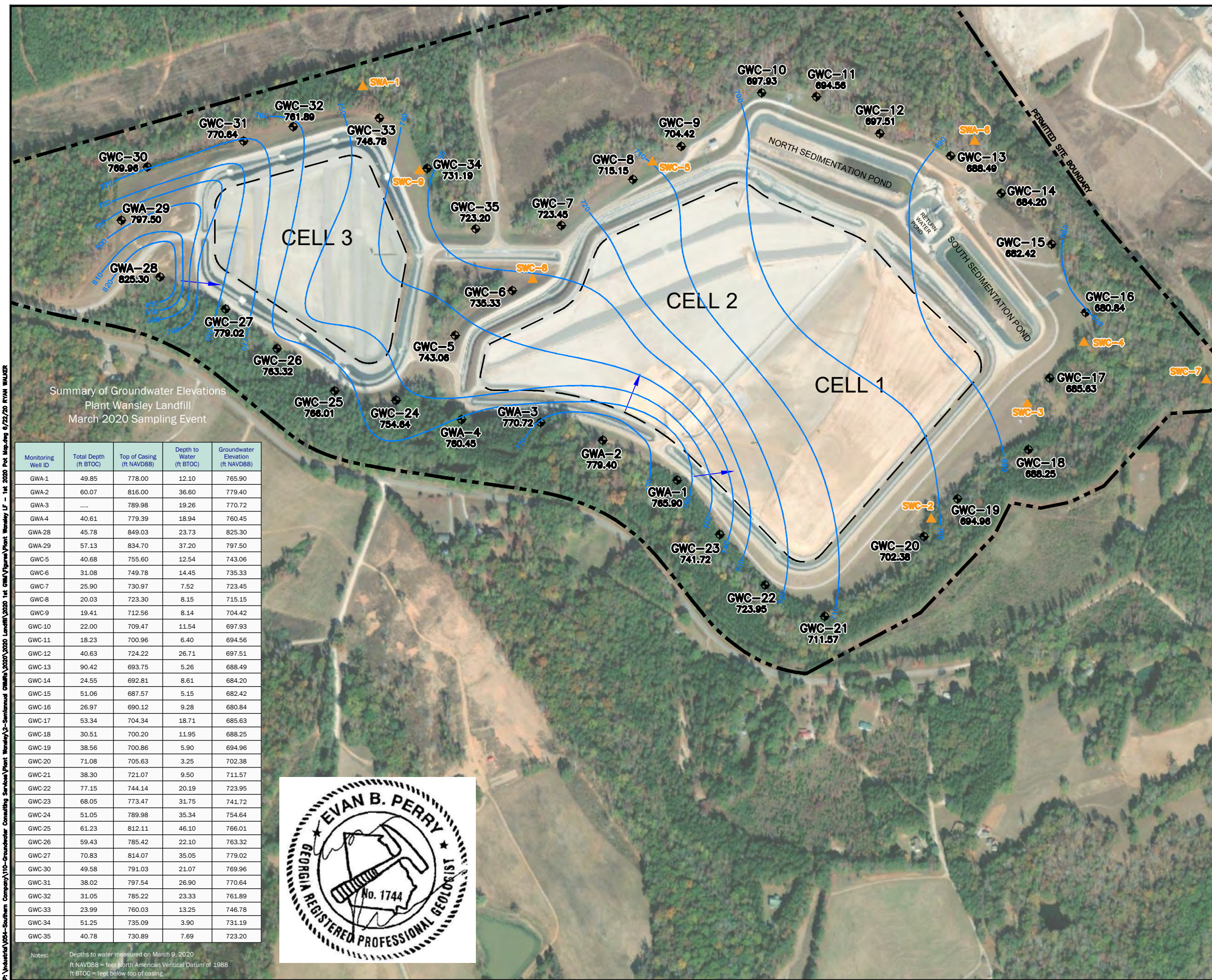
EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	APPROXIMATE LIMITS OF WASTE



LOCATION MAP (N.T.S.)

<u>PROJECT</u>	
Georgia Power	
GEORGIA POWER COMPANY PLANT WANSLEY LANDFILL	
SITE MAP	
PROJECT NO. I054-110	DATE: JUNE 2020
<u>DRAWN BY:</u> MM	<u>FIGURE:</u> 1
<u>CHECKED BY:</u> EP	

F:\Industrial\049-Southern Company\110-Grainwater Consulting Services\2020\2020 Landfill\2020 1st GWA\Figure\Plant Wansley LF - 1st 2020 Pot. Map.dwg 6/22/20 RYAN WALKER

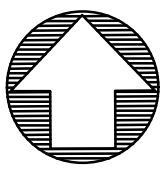



Summary of Groundwater Elevations
Plant Wansley Landfill
March 2020 Sampling Event

Monitoring Well ID	Total Depth (ft. BTOC)	Top of Casing (ft. NAVD88)	Depth to Water (ft. BTOC)	Groundwater Elevation (ft. NAVD88)
GWA-1	49.85	778.00	12.10	765.90
GWA-2	60.07	816.00	36.60	779.40
GWA-3	789.98	19.26	770.72
GWA-4	40.61	779.39	18.94	760.45
GWA-28	45.78	849.03	23.73	825.30
GWA-29	57.13	834.70	37.20	797.50
GWC-5	40.68	755.60	12.54	743.06
GWC-6	31.08	749.78	14.45	735.33
GWC-7	25.90	730.97	7.52	723.45
GWC-8	20.03	723.30	8.15	715.15
GWC-9	19.41	712.56	8.14	704.42
GWC-10	22.00	709.47	11.54	697.93
GWC-11	18.23	700.96	6.40	694.56
GWC-12	40.63	724.22	26.71	697.51
GWC-13	90.42	693.75	5.26	688.49
GWC-14	24.55	692.81	8.61	684.20
GWC-15	51.06	687.57	5.15	682.42
GWC-16	26.97	690.12	9.28	680.84
GWC-17	53.34	704.34	18.71	685.63
GWC-18	30.51	700.20	11.95	688.25
GWC-19	38.56	700.86	5.90	694.96
GWC-20	71.08	705.63	3.25	702.38
GWC-21	38.30	721.07	9.50	711.57
GWC-22	77.15	744.14	20.19	723.95
GWC-23	68.05	773.47	31.75	741.72
GWC-24	51.05	789.98	35.34	754.64
GWC-25	61.23	812.11	46.10	766.01
GWC-26	59.43	785.42	22.10	763.32
GWC-27	70.83	814.07	35.05	779.02
GWC-30	49.58	791.03	21.07	769.96
GWC-31	38.02	797.54	26.90	770.64
GWC-32	31.05	785.22	23.33	761.89
GWC-33	23.99	760.03	13.25	746.78
GWC-34	51.25	735.09	3.90	731.19
GWC-35	40.78	730.89	7.69	723.20

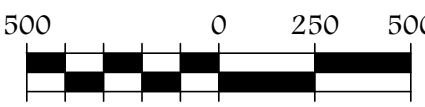
Notes:
 Depths to water measured on March 9, 2020
 ft NAVD88 = feet North American Vertical Datum of 1988
 ft BTOC = feet below top of casing







ATLANTIC COAST
CONSULTING, INC.




SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
- - - - -	APPROXIMATE PROPERTY BOUNDARY
- - - - -	APPROXIMATE LIMITS OF WASTE
◆ GWC-10 697.93	MONITORING WELL GROUNDWATER ELEVATION
▲ SWA-1	SURFACE WATER MONITORING POINT
700 — 700	GROUNDWATER ELEVATION CONTOUR
→	GROUNDWATER FLOW DIRECTION

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY LANDFILL

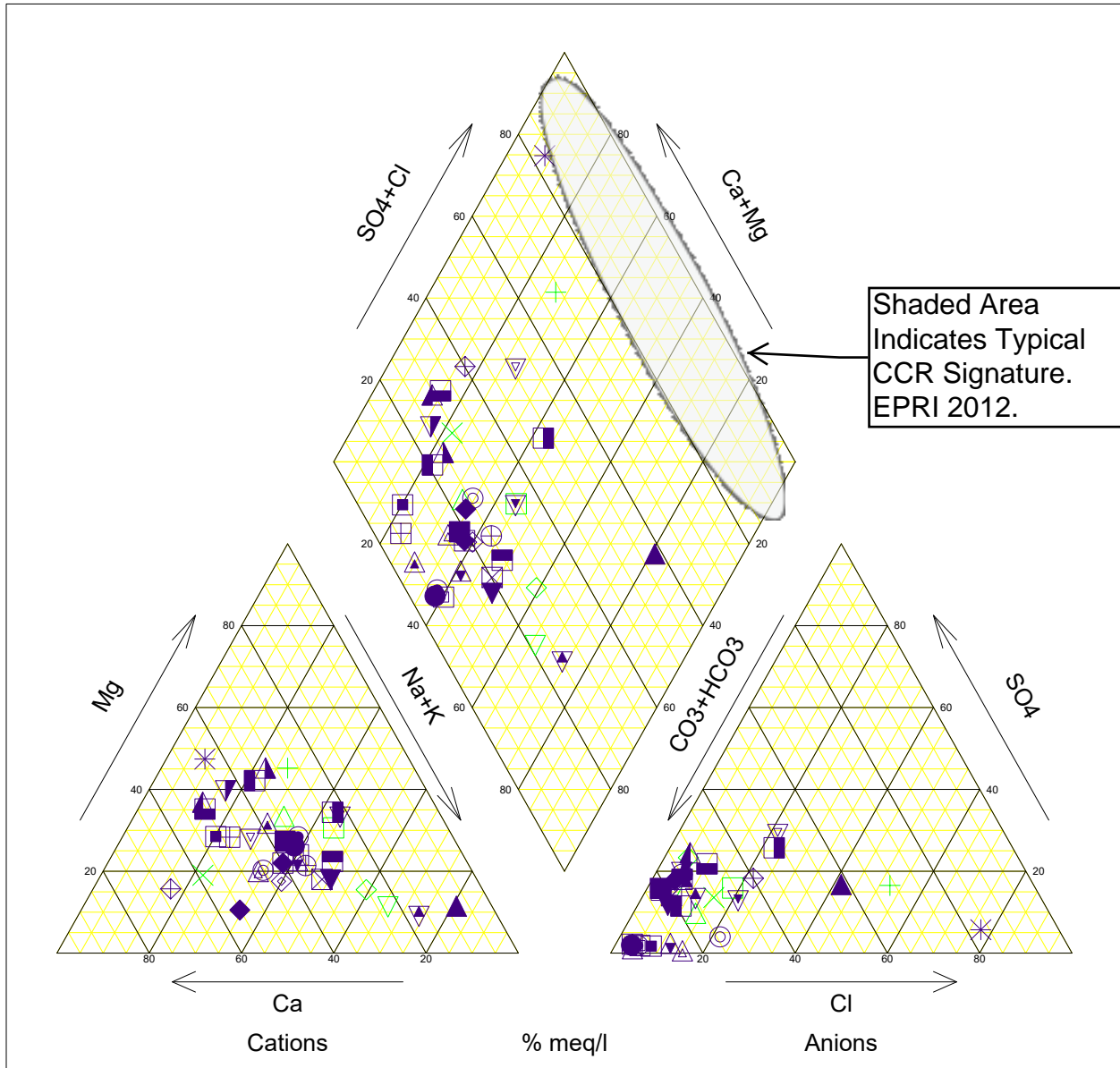
MARCH 2020 POTENTIOMETRIC SURFACE MAP

PROJECT NO. I054-110

DATE: MARCH 2020

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RW	2
<u>CHECKED BY:</u>	
MM	

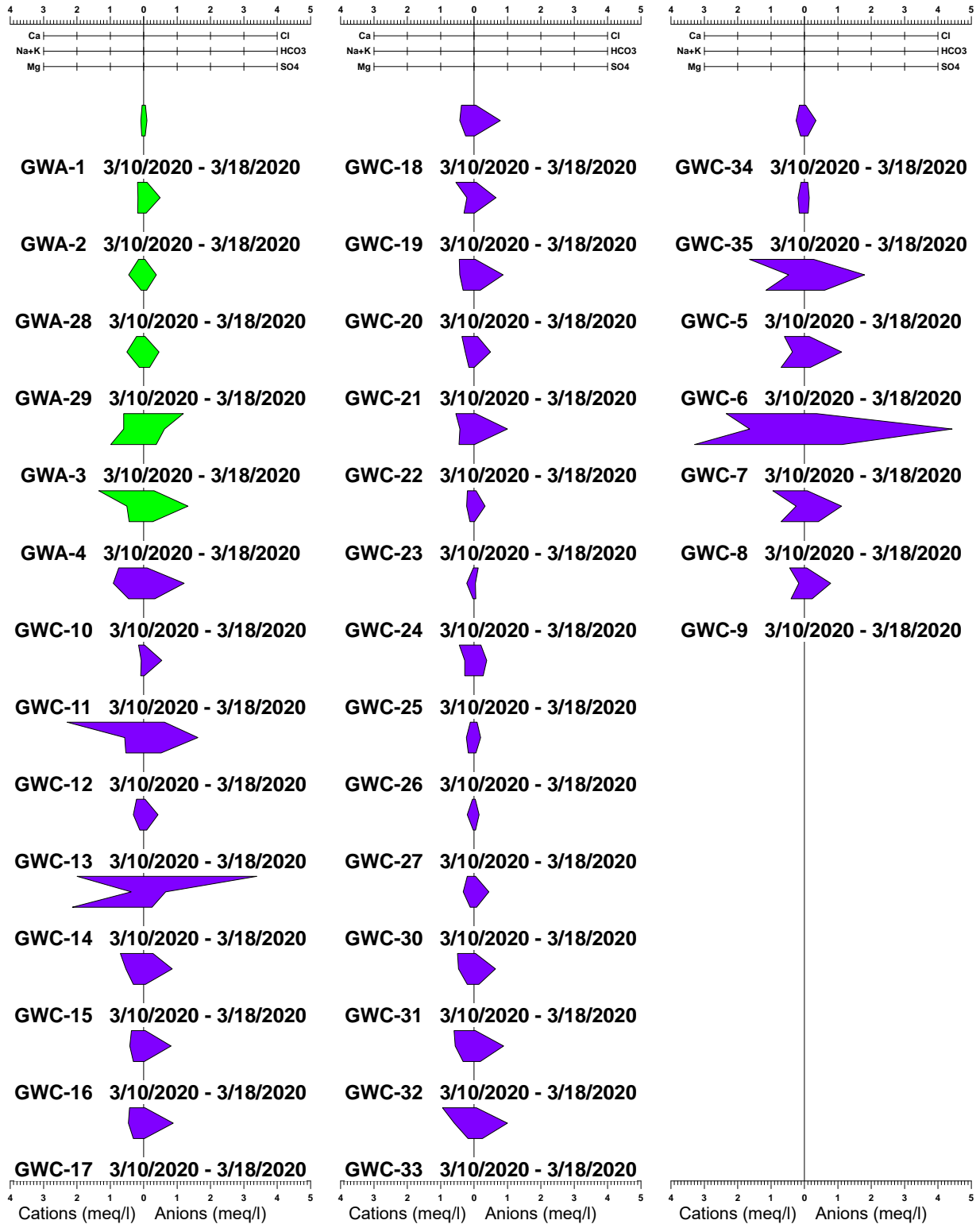
Figure 3A - Tri-Linear Diagram



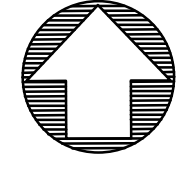
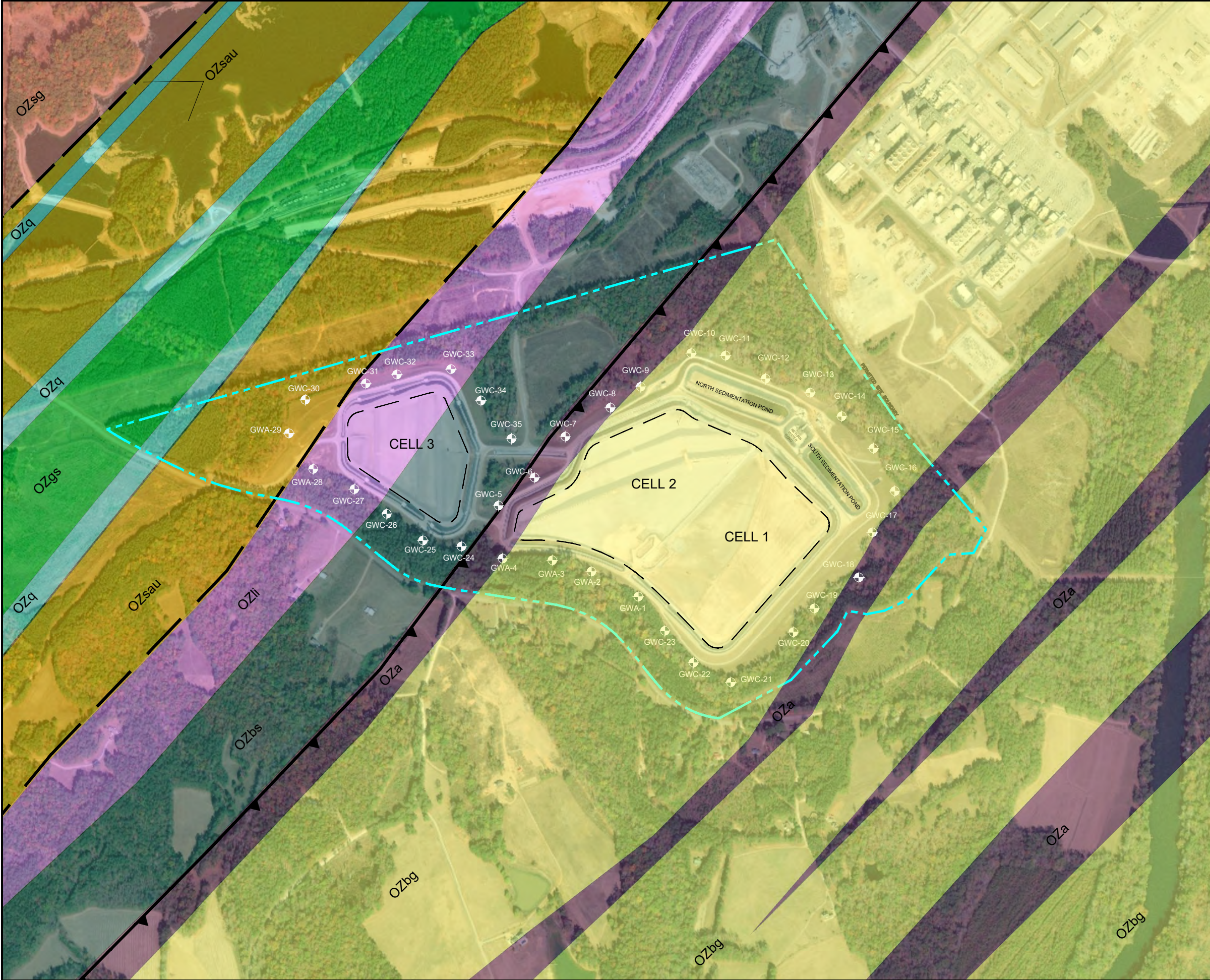
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△ GWA-2	3/10/2020 - 3/18/2020	● GWC-17	3/10/2020 - 3/18/2020	◇ GWC-31	3/10/2020 - 3/18/2020
▽ GWA-28	3/10/2020 - 3/18/2020	□ GWC-18	3/10/2020 - 3/18/2020	◆ GWC-32	3/10/2020 - 3/18/2020
◇ GWA-29	3/10/2020 - 3/18/2020	□ GWC-19	3/10/2020 - 3/18/2020	◆ GWC-33	3/10/2020 - 3/18/2020
+ GWA-3	3/10/2020 - 3/18/2020	■ GWC-20	3/10/2020 - 3/18/2020	■ GWC-34	3/10/2020 - 3/18/2020
× GWA-4	3/10/2020 - 3/18/2020	△ GWC-21	3/10/2020 - 3/18/2020	■ GWC-35	3/10/2020 - 3/18/2020
⊕ GWC-10	3/10/2020 - 3/18/2020	△ GWC-22	3/10/2020 - 3/18/2020	■ GWC-5	3/10/2020 - 3/18/2020
⊞ GWC-11	3/10/2020 - 3/18/2020	△ GWC-23	3/10/2020 - 3/18/2020	■ GWC-6	3/10/2020 - 3/18/2020
⊚ GWC-12	3/10/2020 - 3/18/2020	▲ GWC-24	3/10/2020 - 3/18/2020	▲ GWC-7	3/10/2020 - 3/18/2020
⊛ GWC-13	3/10/2020 - 3/18/2020	▽ GWC-25	3/10/2020 - 3/18/2020	▲ GWC-8	3/10/2020 - 3/18/2020
✱ GWC-14	3/10/2020 - 3/18/2020	▽ GWC-26	3/10/2020 - 3/18/2020	▼ GWC-9	3/10/2020 - 3/18/2020
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Prepared by: Atlantic Coast Consulting, Inc.

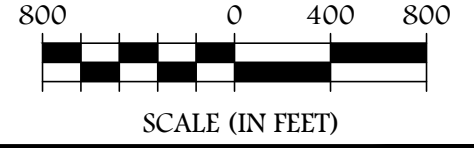
Figure 3B - Stiff Diagrams



F:\Projects\085-Southern Company\10-Groundwater Consulting Services\Plant Wansley\ASD\Landfill 2020 Landfill State Maps ASP\Plant Wansley LF - Site Geologic Map.dwg 3/16/20 RYAN WALGER



ATLANTIC COAST CONSULTING, INC.



LEGEND:

EXISTING	DESCRIPTION
	AMPHIBOLITE (OZa)
	BIOTITE GNEISS (OZbg)
	GARNET SCHIST (OZgs)
	LONG ISLAND CREEK GNEISS (OZli)
	QUARTZITE (OZq)
	SCHIST AMPHIBOLITE (OZsai)
	SHEARED BUTTON SCHIST (OZbs)
	MUSCOVITE SCHIST (OZsg)
	STRIKE-SLIP FAULT
	THRUST FAULT
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	GROUNDWATER MONITORING WELL

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY CCR LANDFILL

GEOLOGIC MAP

PROJECT NO. I054-110

APRIL 2020

DRAWN BY: RW

FIGURE:

CHECKED BY: EP

APPENDIX A
Summary of Previous ASDs

Summary of Previous ASDs

Date	Constituent	Well
Mar-17	Barium	GWC-9, GWC-11
	Chromium	GWC-10, GWC-11, GWC-16, GWC-31
	Cobalt	GWC-8, GWC-9, GWC-14
	Nickel	GWC-5, GWC-7, GWC-9, GWC-14, GWC-25
	Vanadium	GWC-10, GWC-22
	Zinc	GWC-32
Dec-18	pH	GWC-10 and GWC-18
	Total Dissolved Solids	GWC-23
Nov-19	Sulfate	GWC-5 and GWC-12
Apr-20	Barium	GWC-6, GWC-14, GWC-16, GWC-18, GWC-25, GWC-34
	Chromium	GWC-5, GWC-6, GWC-13, GWC-20, GWC-26, GWC-34, GWC-35
	Coper	GWC-31
	Nickel	GWC-6
	Zinc	GWC-6, GWC-14, GWC-25, GWC-31

APPENDIX B
Previous ASDs

**GEORGIA POWER COMPANY
PLANT WANSLEY
DISPOSAL FACILITY
PERMIT NO. 074-005D (LI)**

**ALTERNATE SOURCE DEMONSTRATION FOR PLANT
WANSLEY DISPOSAL FACILITY GROUNDWATER
MONITORING NETWORK**

Prepared for

Georgia Power Company
Atlanta, Georgia

By

Southern Company Services, Inc.
Earth Science and Groundwater

March 2017

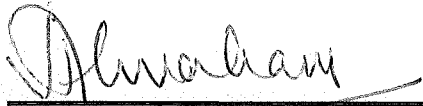


GEORGIA POWER COMPANY
PLANT WANSLEY
DISPOSAL FACILITY
PERMIT NO. 074-005D (LI)

ALTERNATE SOURCE DEMONSTRATION FOR PLANT
WANSLEY DISPOSAL FACILITY GROUNDWATER
MONITORING NETWORK

CERTIFICATION STATEMENT

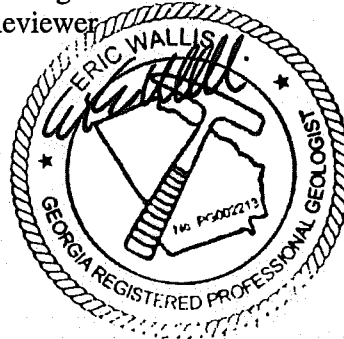
Southern Company Services (SCS) certifies that this alternate source demonstration is prepared in accordance with §391-3-4-.14.23.c of the Georgia Solid Waste Management Rules.



Joju Abraham
Originator



Eric E. Wallis, J.D., P.G.
Georgia Registered Professional
Geologist No. 2213
Reviewer



DISCLAIMER:

SOUTHERN COMPANY SERVICES, INC. (AND ITS PARENT AND AFFILIATES) MAKES NO REPRESENTATIONS OR WARRANTIES AS TO THE USE OF THE INFORMATION OTHER THAN FOR ITS INTENDED USE, INCLUDING NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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 2.1 Natural Variability of Metals Concentrations..... 2
3.0 CONCLUSIONS AND RECOMMENDATIONS 10
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FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Geologic Map
- Figure 3 Historic Cobalt Concentrations
- Figure 4 Historic Nickel Concentrations

APPENDICES

- Appendix A Time-Concentration Plots

1.0 INTRODUCTION

Statistical analysis of the analytical data from the 2016 2nd semi-annual groundwater sampling event at Georgia Power Company’s (GPC) Plant Wansley identified statistically significant increases (SSIs) of target constituents in monitoring wells at the disposal facility’s monitoring network as follows:

GWC-5	Nickel
GWC-7	Nickel
GWC-8	Cobalt
GWC-9	Barium, Cobalt, Nickel
GWC-10	Chromium, Vanadium
GWC-11	Barium, Chromium
GWC-14	Cobalt, Nickel
GWC-16	Chromium
GWC-22	Vanadium
GWC-25	Nickel
GWC-31	Chromium
GWC-32	Zinc

Groundwater monitoring data from Plant Wansley disposal facility were evaluated using statistical methods described in the 2016 Second Semi-Annual Groundwater Monitoring Report (SCS, 2016). Pursuant to Rule 391-3-4-.14(23)(c), this report provides an alternate source demonstration for the SSIs noted in wells at landfill Cell 1. All of the SSIs are attributed to variation in naturally-occurring constituents not properly accommodated by the current statistical method.

Plant Wansley is located in northeast Heard County and southeast Carroll County, Georgia, off Liberty Church Road, approximately 12 miles southeast of the city of Carrollton, see Figure 1, Site Location Map. The physical address of the plant is 1371 Liberty Church Road, Carrollton, Georgia. The plant property encompasses approximately 5100 acres and is bounded on the east by the Chattahoochee River.

Plant Wansley Coal Combustion By-Product (CCB) facility consists of 3 disposal cells and maintains an approximate 83-acre disposal footprint. A monitoring well network of 35 wells bordering the disposal facility is used to periodically collect chemical and physical data from groundwater at the site. This well network consists of 29 downgradient wells and 6 upgradient wells. Semi-annual detection monitoring is routinely performed in compliance with the permit conditions for groundwater monitoring at the site.

2.0 ALTERNATE SOURCE DEMONSTRATION

2.1 Natural Variability of Metals Concentrations

The SSIs of target metals at the site are attributed to the natural occurrence of metals in the underlying geologic formation and variability in those concentrations. The natural occurrence and spatial variability is not properly accommodated by the current interwell statistical method, resulting in SSIs. An intrawell statistical approach may be more suited for these constituents.

The following discussion presents information that pertains to the SSIs listed above and demonstrates that:

- 1) the geologic materials in the area are a viable natural source for the metals in groundwater;
- 2) these metals occur across the site – including upgradient;
- 3) overall there are no statistically significant increasing trends with the exception of nickel in downgradient wells GWC-5 and GWC-14 as well as cobalt in upgradient well GWA-4; and
- 4) intrawell statistical analysis maybe a more suitable alternative for these constituents.

2.1.1 Geology

Mafic rocks in the area are a viable source of barium, cobalt, chromium, nickel, vanadium, zinc, and several other metals in groundwater (Hem, 1985). Plant Wansley lies in the Southern Piedmont physiographic province, between the Blue Ridge Mountains and the Upper Coastal Plain (Clark and Zisa, 1976). The Southern Piedmont is characterized by predominantly metamorphic bedrock that includes biotite gneiss, hornblende gneiss, granitic gneiss, and amphibolite.

A complex suite of lithologies and two faults characterize the subsurface beneath the disposal facility. Geologic mapping on the plant property identified the following nine lithologic units. Brief descriptions of the lithologic units are as follows.

1. Mixed Unit: Interlayered graphitic mica schist with ilmenite, feldspathic gneiss, and metagraywacke with numerous metamorphic pegmatites. The Chattahoochee Fault divides the Mixed Unit from the muscovite schist located adjacent and to the southeast.
2. Muscovite Schist: Poorly jointed muscovite schist with small disseminated garnets, locally with quartzose schist and well-jointed metagraqwacke. This unit occurs upgradient of the ash pond.
3. Schist-Amphibolite unit: Quartzose schist and feldspathic gneiss interlayered with amphibolite/hornblende gneiss and localized ultramafic bodies. Mainly occurs beneath the ash pond.
4. Quartzite: Well-jointed and well-sheared feldspathic, micaceous quartzite that extends beneath the ash pond. This is the most transmissive unit on the plant property.

5. Garnet Schist: Mica schist with porphyroblastic garnet with abundant pegmatite pods and lenses.
6. Long Island Creek Gneiss: Weakly foliated, massive, granitic gneiss that is separate from the schist-amphibolite unit by the Long Island Creek Fault. This is possibly the least transmissive unit on the plant property due to its poorly weathered nature.
7. Sheared Button Schist: Muscovite-rich button schist, phyllonite, and greywacke unit containing sparse garnet and lacking mafic interlayers. The Katy Creek Fault marks the southeastern boundary of this unit and the Brevard Zone.
8. Biotite Gneiss: Biotite-quartz-feldspar gneiss interlayered with thin, discreet amphibolite layers. Differential weathering has occurred in this unit due to deeper weathering in the mafic bodies compared to the felsic gneiss.
9. Amphibolite: Regionally continuous, thinly-laminated, fine-grained amphibolite that occurs within the surrounding Biotite Gneiss.

Of these lithologic units, Schist-Amphibolite, Long Island Creek Gneiss, Sheared Button Schist, Biotite Gneiss and Amphibolite are the major units near the landfill cells. These lithological units are broadly comparable to the regional geologic map of Lawton (1976).

The Long Island Creek Fault separates the Long Island Creek Gneiss and Schist-Amphibolite unit. The Katy Creek Fault separating the Button Schist and Amphibolite units, marks the southeastern boundary of the Brevard Fault Zone – a major fault zone extending across several states in the Southern Appalachian Mountain. These geologic structures provide preferential flow paths and differential weathering resulting in enhanced dissolution and transport of metals in groundwater flow.

The occurrence of saprolite at the site indicates that intense chemical weathering has occurred and that there has been no physical removal of the materials from their original location. Chemical weathering of the metamorphic rocks can release metals associated with the minerals (barium, chromium, vanadium, zinc, and several other metals) into solution (i.e. groundwater). Since elemental concentrations in metamorphic rocks vary, the dissolution rates by chemical weathering and the resultant concentrations in solution can also show notable variations by natural processes. Chemical weathering of the rock materials present at the site has likely released naturally-occurring metals in the groundwater and facilitates the statistical excursions noted at the site.

2.1.2 Geologic Source

Downgradient wells that show cobalt and nickel concentrations above the prediction limits, namely, GWC-5, GWC-7, GWC-8, and GWC-9, are located near the Katy Creek Fault. These downgradient wells are screened in the upper bedrock, and are confined to a fault zone, paralleling the northeast-southwest trend of regional Appalachian rocks and near the contact of underlying mica schist and amphibolite units. Groundwater flow along the thrust fault or through fractures across these lithologies apparently allowed fluid circulation of naturally-enriched trace elements in the earth's crust to the shallow groundwater system. Garnets that are abundant in the local mica schists are a likely source of cobalt and nickel to the local groundwater.

The sheared button schist and the amphibolite gneiss are potential sources of trace metals for groundwater at the site. Garnets in the mica schists are the likely source of elevated cobalt and nickel in groundwater. The amphibolite gneiss can facilitate enhanced levels of chromium, nickel, vanadium, and other trace metals to groundwater. It appears that groundwater flow through the fault zone and bedrock fractures facilitates enriched concentrations of target metals, to the downgradient wells. Pre-disposal background data showed elevated concentrations of cobalt and nickel in several downgradient wells, indicating that a natural source of trace metals exists beneath the site. The natural source is attributed to the geologic formations containing cobalt, nickel, chromium, and vanadium near the fault zone.

Although downgradient well GWC-14 is offset from the Katy Creek Fault, in terms of its location, it is likely that the underlying biotite gneiss with amphibolite layers are potential sources for enriched concentrations of cobalt and nickel. Thus, the SSIs for cobalt and nickel in well GWC-14 can be strongly related to the lithological framework in the subsurface and its effect on groundwater composition.

2.1.3 Bedrock and Stream Geochemistry

Table 1, Summary of Sediment and Rock Chemistry Data, summarizes stream sediment and rock chemistry data for constituents of interest identified in U.S. Geological Survey (USGS) geochemistry database in the vicinity of Plant Wansley (<http://tin.er.usgs.gov/geochem/>). These data are interpreted to represent natural concentrations (conditions) in stream sediments and rocks found in the Piedmont region. Metals naturally occur over a wide range of concentrations, as indicated in the table below. Natural sources of chromium, copper, cobalt, nickel, and vanadium are reported in regional stream sediments that likely reflect ultramafic and mafic rocks in the region (Cocker, 1996). Amphibolite and Biotite Gneiss lithologic units are reported to contain notable concentrations of chromium and vanadium along with several other base metals (Cocker, 1991).

Table 1
Summary of Sediment and Rock Chemistry Data

Parameters			
Aluminum (1) 1.1 - 6.6 wt.% (2) 2.2 - 7.58 wt.%	Antimony (1) <0.6 - 0.4 mg/kg (2) <0.6 - 2.2 mg/kg	Arsenic (1) <0.6 - 18 mg/kg (2) <4 - 9.2 mg/kg	Barium (1) <5 - 1,480 mg/kg (2) <20 - >5,000 mg/kg
Beryllium (1) <0.5 - 1.5 mg/kg (2) <1 - 10 mg/kg	Boron (2) <10 - 100 mg/kg	Cadmium (1) <0.05 - <2.0 mg/kg (2) <2 - <20 mg/kg	Cobalt (1) 1.9 - 19.5 mg/kg (2) <5 - 200 mg/kg (3) 37 mg/kg
Chromium (1) <5 - 71.4 mg/kg (2) <5 - 4,100 mg/kg (3) 248 mg/kg	Copper (1) <2 - 16 mg/kg (2) <5 - 500 mg/kg (3) 49 mg/kg	Iron (1) 0.63 - 13.1 wt.% (2) 0.2 - 10 wt.%	Lead (1) <4 - 34 mg/kg (2) <5 - 200 mg/kg
Manganese (1) 20 - 2,960 mg/kg (2) 20 - 5,000 mg/kg	Mercury (1) <0.02 - 0.05 mg/kg	Molybdenum (1) <2.0 - 5.0 mg/kg (2) <2 - 30.1 mg/kg	Nickel (1) <3 - 31 mg/kg (2) 1.4 - 890 mg/kg (3) 77 mg/kg
Selenium	Silver	Vanadium	Zinc

(1) <0.2 - 0.5 mg/kg	(1) <1 - 0.5 mg/kg (2) <0.5 - <2 mg/kg	(1) 10 - 210 mg/kg (2) 10 - 1,500 mg/kg (3) 288 mg/kg	(1) 5 - 284 mg/kg (2) <5 - 700 mg/kg (3) 83 mg/kg
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wt.% - percent by weight, % - percent, mg/kg - milligrams per kilogram, mS/cm - millisiemens per centimeter, -- data unavailable

(1) Stream sediment data from USGS National Geochemical Survey Database

(2) Rock sample data from USGS National Geochemical Database

(3) Stow (1984)

2.1.4 Groundwater conditions

Review of time-concentration plots in Appendix A, Time-Concentration Plots, demonstrates that metals occur at variable concentrations in groundwater across the site. Groundwater conditions in the Piedmont region vary over short distances (LeGrand, 2004). The first zone of saturation may occur in the soil-regolith zone or at the saprolite-bedrock interface (transition-zone). In general, the majority of wells screened closer to the saprolite-bedrock interface show relatively higher turbidity levels, and show SSIs. In contrast, the majority of wells screened in the silt and sandy soils, above the saprolite zone, are less turbid and do not show any SSIs.

SSIs of target metals in groundwater screened near the saprolite-bedrock interface are attributed to leaching metals from the saprolite and variability of groundwater flow and redox conditions in the weathered zone. Evidence supporting this can be seen on time-concentration plots in Appendix A. Review of the time-concentration plots demonstrates that metals occur across a range of concentrations at the site, but that there is not a pattern to the distribution across the site that would suggest low concentrations upgradient or elevated concentrations downgradient. This supports the conclusion that the distribution is random and naturally-occurring, and that the concentration variations and statistical excursions at the site simply reflect natural spatial variations in groundwater chemistry.

2.1.5 Pre-disposal Groundwater Quality

Concentrations of target metals currently detected in groundwater are comparable to concentration data from four pre-disposal background monitoring events. Various metals were detected in many wells at varying concentrations across the site during the background sampling events, indicating that chemical weathering of underlying rocks has created high spatial variability that is typically noted in Piedmont settings. The high spatial variability is reflected in the significant differences in spatial chemistry for constituents outside the prediction interval by the inter-well statistical analyses.

Figure 3, Historic Cobalt Concentrations, shows the historic cobalt concentrations in detection wells GWC-5, GWC-6, GWC-7, GWC-8, and GWC-9. The first four points on Figure 3 represent the background sampling events conducted before waste was placed in the facility. Cobalt exceeded the interwell prediction interval (currently 0.015 mg/L) in the pre-disposal background events in wells GWC-8, GWC-9, and GWC-14. Nickel was also detected above the prediction interval in wells GWC-5, GWC-7, GWC-9, and GWC-14. Figure 4, Historic Nickel Concentrations, shows nickel concentrations in selected wells that exceeded the prediction interval. Nickel is closely associated with cobalt because of its similarity in geochemical properties and thus, nickel and cobalt frequently occur together in groundwater.

2.1.6 Site-Specific Groundwater Quality and Statistics

Groundwater quality exhibits a fairly high degree of spatial variability at the site. As such, the current SSIs may be categorized as “error in statistical analysis” within the framework of the rules because that spatial variability is not properly accommodated by the current statistical method. Interwell prediction limits are currently used to perform the statistical analysis of site data (and are specified within the current permit). With this method, upgradient data is pooled and used to develop a statistical limit that downgradient data are compared to. As explained by USEPA (2009), interwell comparisons assume that the concentration distribution is not spatially variable. At many sites, like Plant Wansley, this is not the case for many naturally occurring constituents. Where spatial variation occurs, the EPA recommends using an intrawell statistical approach as the most powerful method for detecting changes within a given well.

Figure 3
Historic Cobalt Concentrations

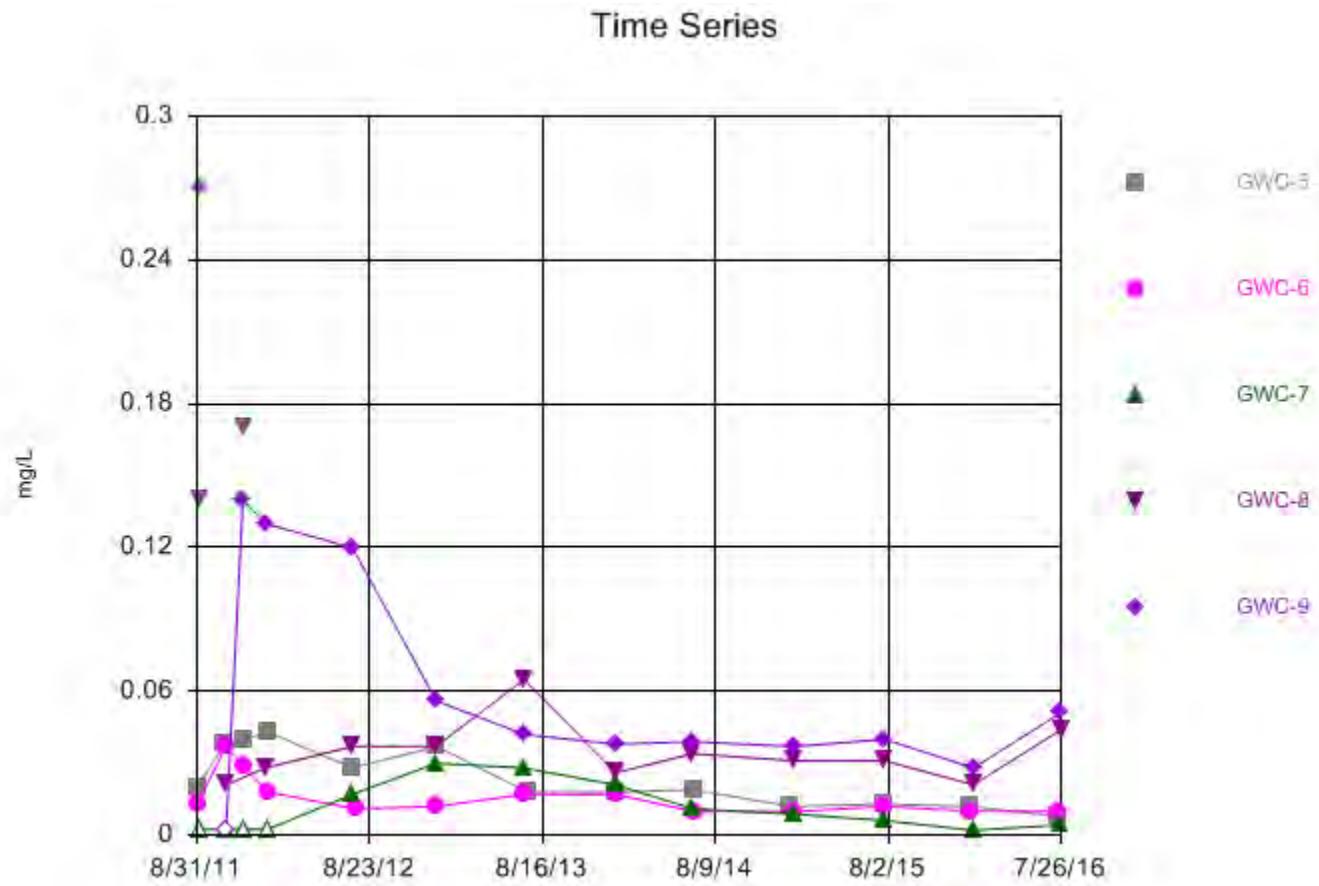


Figure 3 Continued
Historic Cobalt Concentrations

Saritas™ v.9.5.25 Saritas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

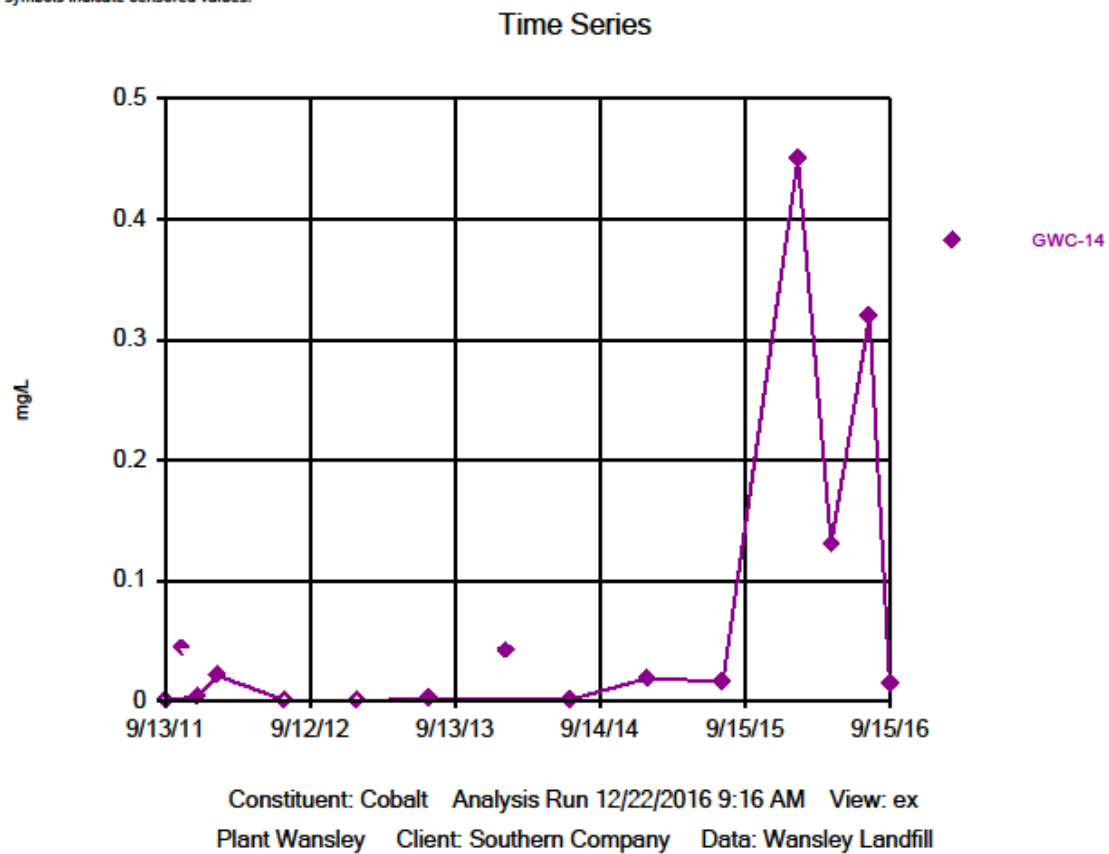
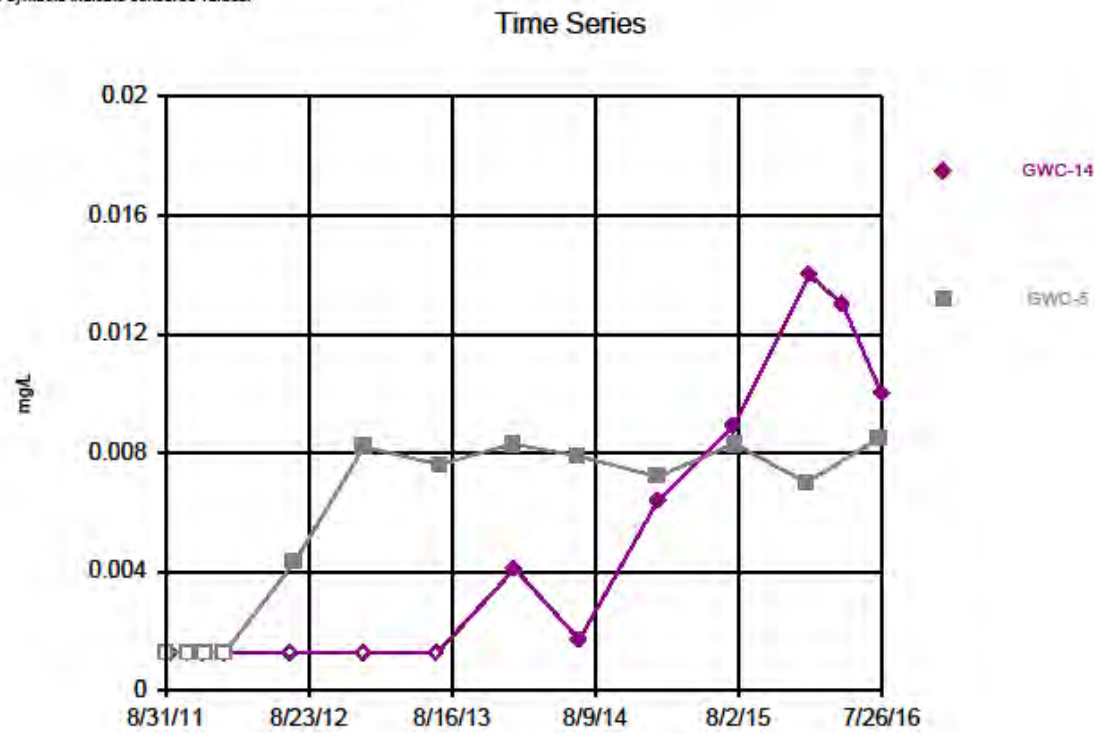


Figure 4
Historic Nickel Concentrations

Saritas™ v.9.5.25 Saritas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Nickel Analysis Run 12/22/2016 9:18 AM View: ex
Plant Wansley Client: Southern Company Data: Wansley Landfill

3.0 CONCLUSIONS AND RECOMMENDATIONS

The preceding provides an alternate source demonstration for the SSIs noted in wells at landfill Cell 1 pursuant to Rule 391-3-4-.14(23)(c). Specifically, this report demonstrates that the SSIs are the result of natural variability not properly accommodated by the current statistical methods and that the SSIs are not the result of an impact by the disposal unit.

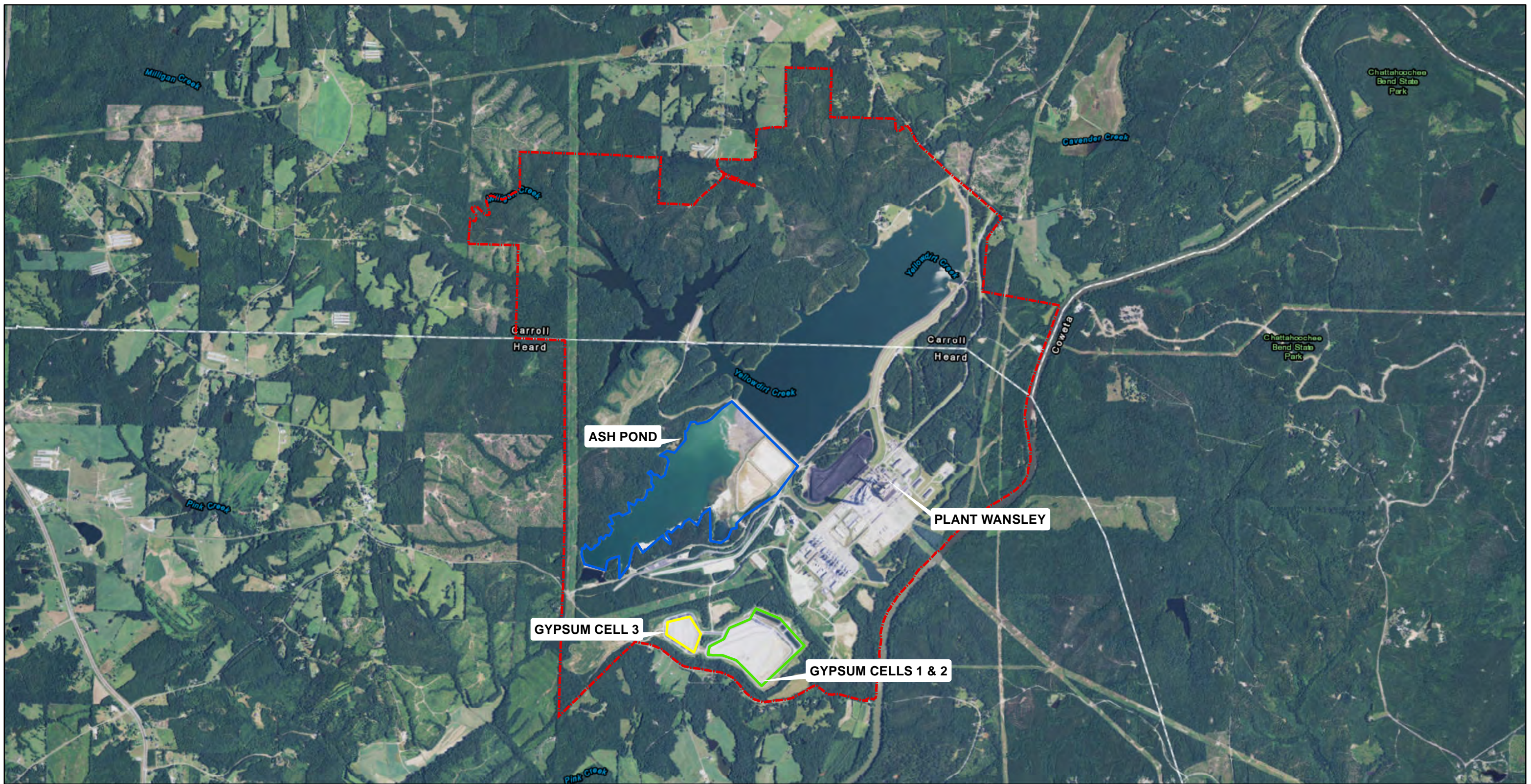
Pre-disposal background data showed elevated concentrations of several target metals in several downgradient wells, indicating that a natural source of trace metals exists beneath the site. Additionally, upgradient wells exhibit variability of target metal concentrations indicating intrawell methods may be more powerful for detecting changes in metal concentrations in downgradient wells. Evidence suggests the statistical exceedances of target constituents are due to naturally-occurring target metal concentrations in groundwater. Post-disposal compliance data continues to validate that trace metals occur naturally in groundwater at the site and are likely genetically-linked to weathering of underlying gneiss and schist.

Georgia Power Company recommends the following:

- Remain in detection monitoring.
- Continue to monitor the target constituents for natural variability in the groundwater system across the site.
- Develop a statistical analysis plan that accounts for spatially-variable data.

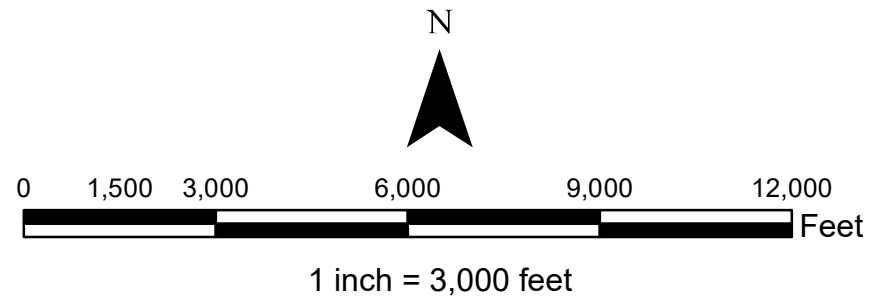
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- Stow, S.H., Neilson, M.H. and Neathery, T.L., 1984, Petrography, Geochemistry, and Tectonic Significance of the Amphiboles of the Alabama Piedmont: American Journal of Science, v. 284, p. 416-436.
- U.S. Geological Survey, National Database, <http://tin.er.usgs.gov/geochem>.



Legend

- - - Approximate Property Boundary
- Ash Pond
- Gypsum Cell 1 & 2
- Gypsum Cell 3



Southern Company Services
Earth Science and Environmental Engineering

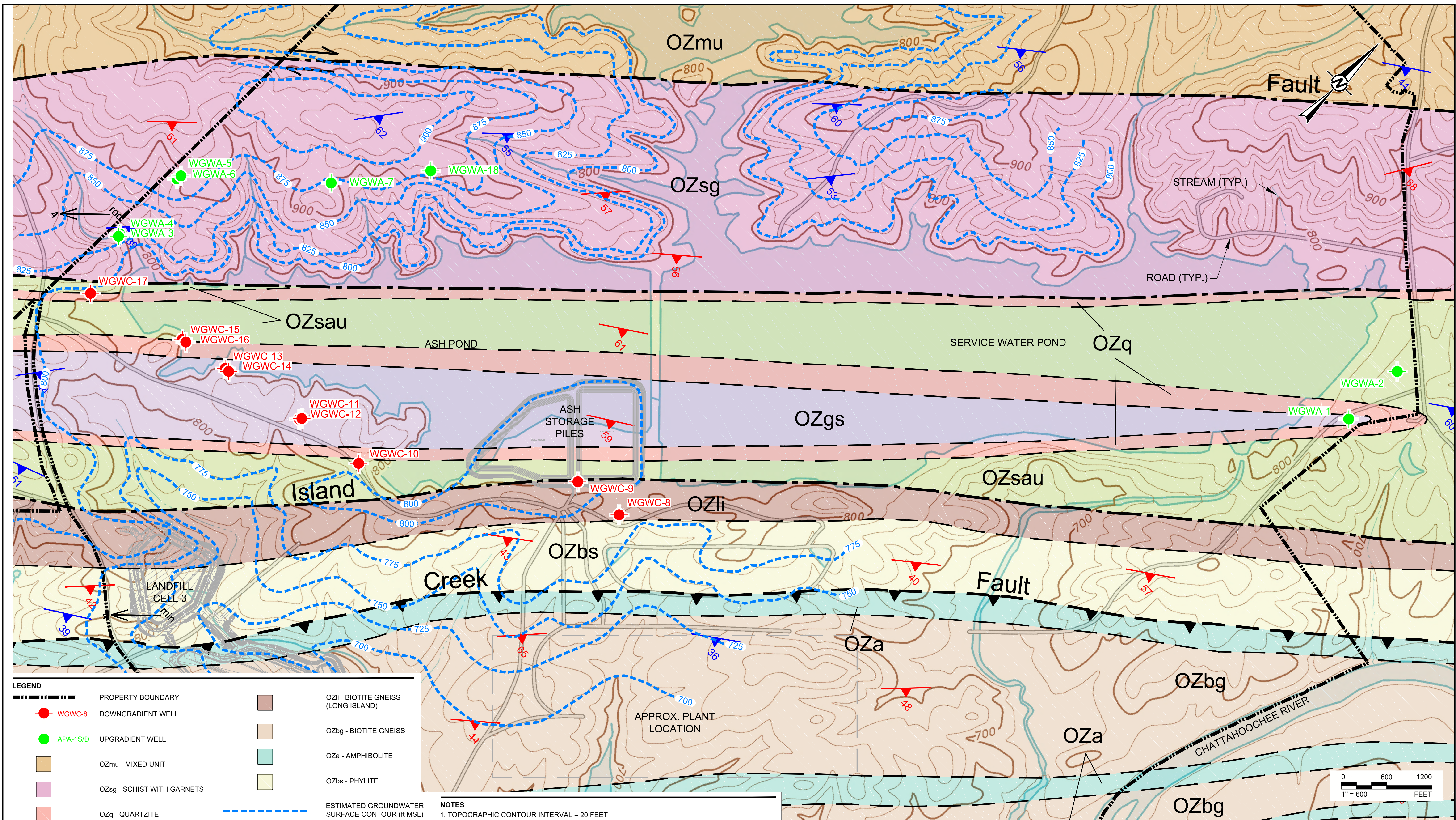
FOR

Georgia Power Company

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
As Shown	SITE MAP	1	As Shown	0

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FIGURE 1
 SITE MAP
 PLANT WANSLEY
 CARROLLTON, HEARD COUNTY, GEORGIA



LEGEND	
	PROPERTY BOUNDARY
	WGWC-8 DOWNGRADIENT WELL
	APA-1S/D UPGRADIENT WELL
	OZmu - MIXED UNIT
	OZsg - SCHIST WITH GARNETS
	OZq - QUARTZITE
	OZsau - SCHIST MAFICS ULTRAMAFICS
	OZgs - GARNET SCHIST
	OZli - BIOTITE GNEISS (LONG ISLAND)
	OZbg - BIOTITE GNEISS
	OZa - AMPHIBOLITE
	OZbs - PHYLITE
	ESTIMATED GROUNDWATER SURFACE CONTOUR (ft MSL)
	INTERPRETED GEOLOGIC CONTACT
	FOLIATION

REFERENCES

- USGS 7.5 MINUTE QUADRANGLE; LOWELL, 2011.
- TOPOGRAPHIC CONTOURS FOR LANDFILL AND ASH PILES PROVIDED BY SOUTHERN COMPANY SERVICES, INC.

NOTES

- TOPOGRAPHIC CONTOUR INTERVAL = 20 FEET
- GROUNDWATER SURFACE CONTOUR INTERVAL = 25 FEET
- GROUNDWATER ELEVATIONS MEASURED ON 02/13/2015.
- GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
- MONITORING WELLS (APA-1, APA-2D, APC-1, APC-2, APC-3D, APC-4D, APC-5S, APC-5D, APC-6S, APC-6D, APC-7), WERE INSTALLED BY GOLDER ASSOCIATES. LOCATIONS SURVEYED BY E&CS CIVIL FIELD SERVICES ON JANUARY 20, 2016.
- REMAINING MONITORING WELLS (APA-3S, APA-3D, APA-4S, APA-4D, APA-5) WERE INSTALLED BY SCS. LOCATIONS PROVIDED BY SCS.

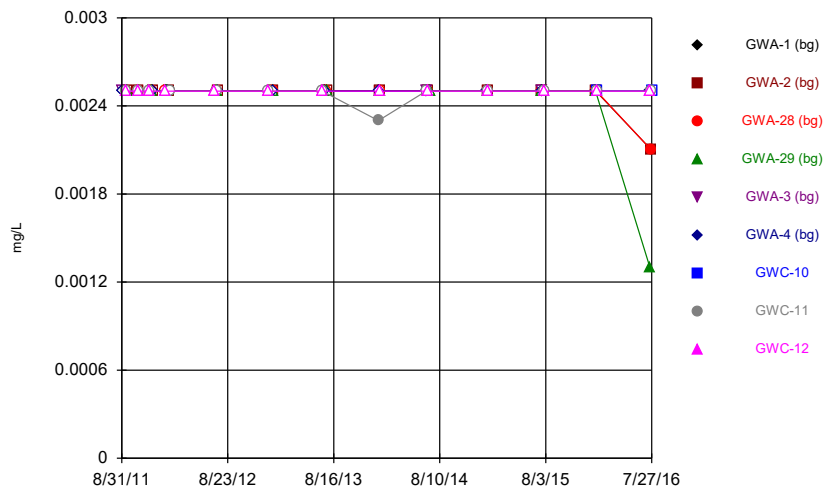
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CONSULTANT	GOLDER ASSOCIATES INC.	DATE
DESIGNED	YYYY-MM-DD	2016/08/17
PREPARED	SEP	
REVIEWED	TIR	
APPROVED	DSS	

PROJECT PLANT WANSLEY WELL INSTALLATION		
SITE GEOLOGIC MAP		
PROJECT NO.	REV.	FIGURE
1661736.002	-	2

Path: \\atlanta\cadd\Southern Company\Plant Wansley\1530076\Production\Well Location\Plan\Revised August 2016\1 File Name: 1661736.002-002-Monitoring Well Location Plan.dwg

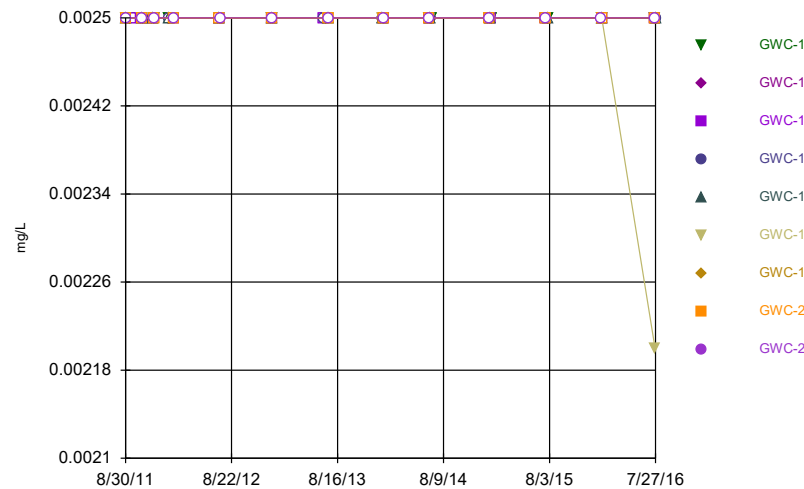
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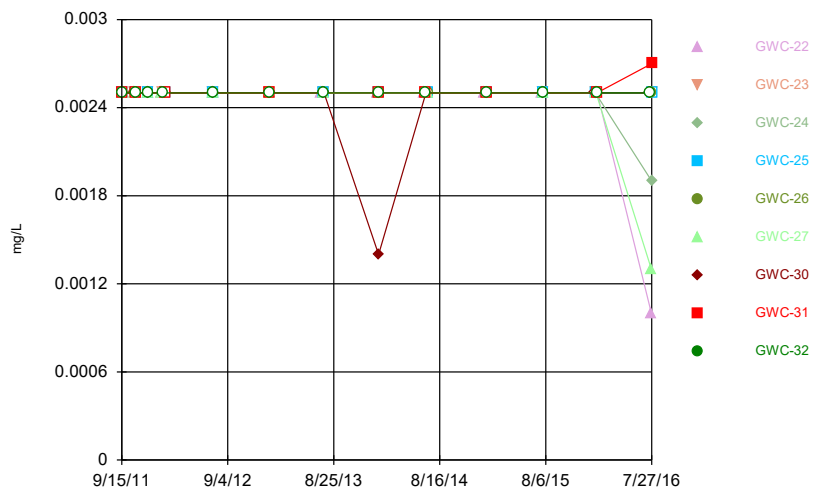
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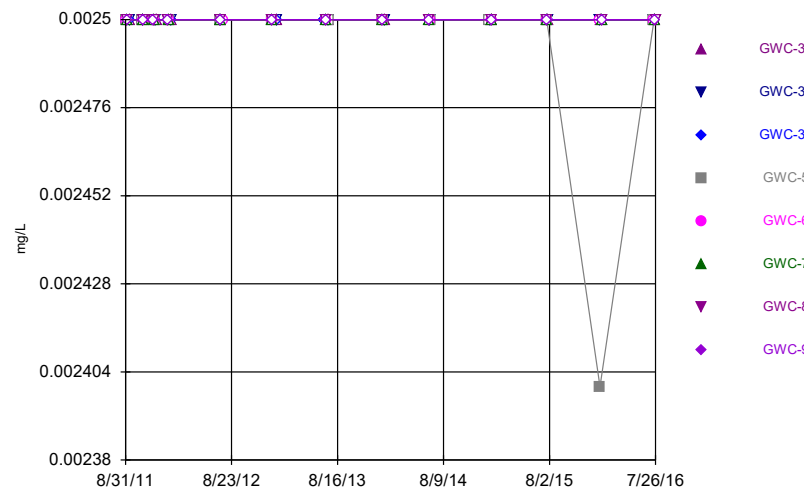
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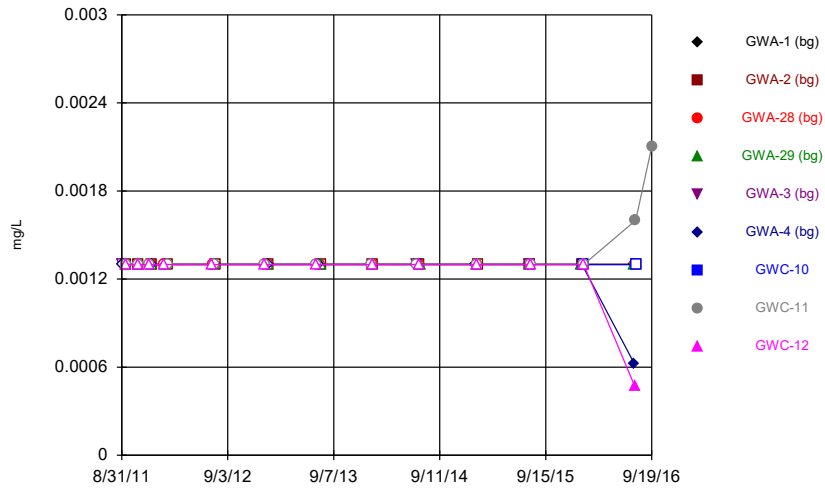
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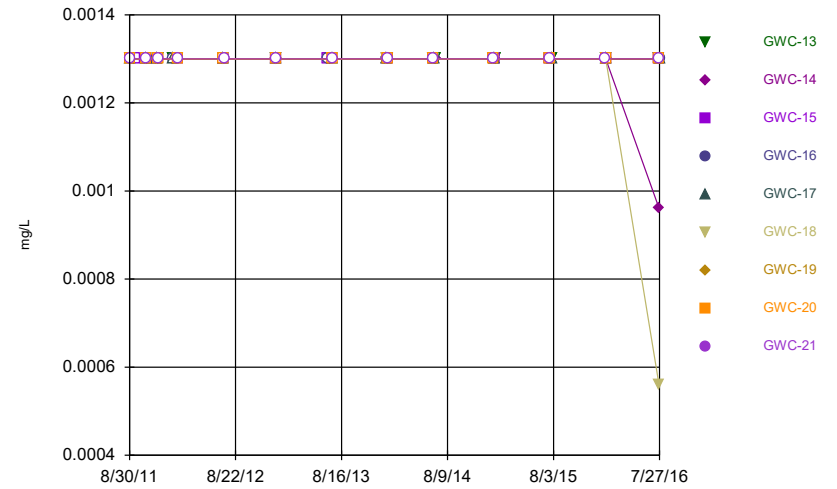
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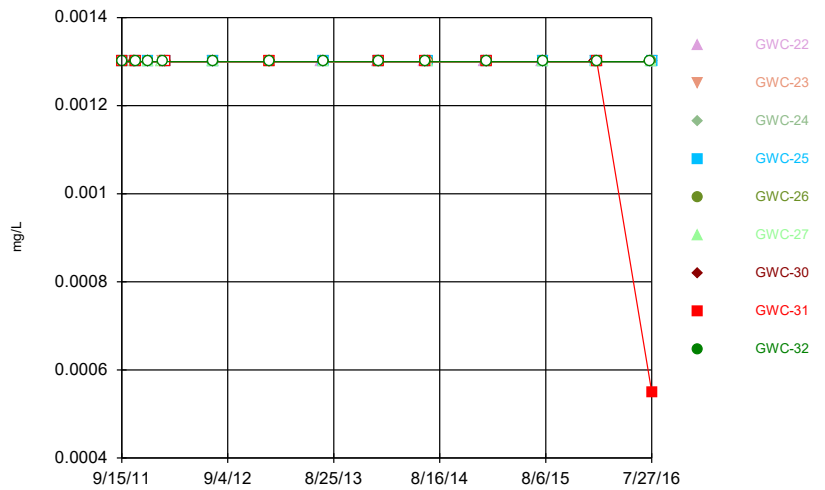
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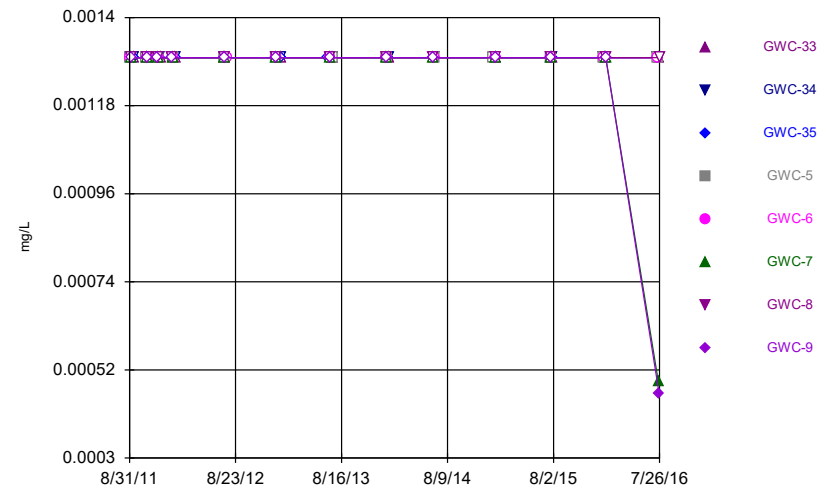
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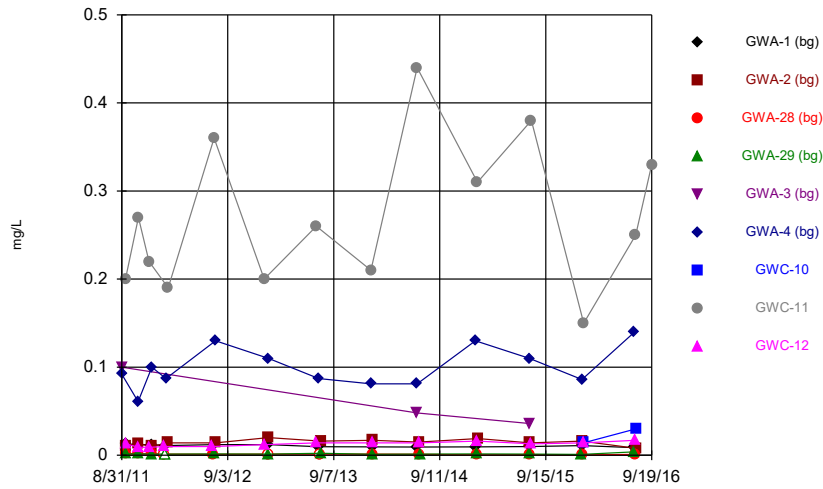
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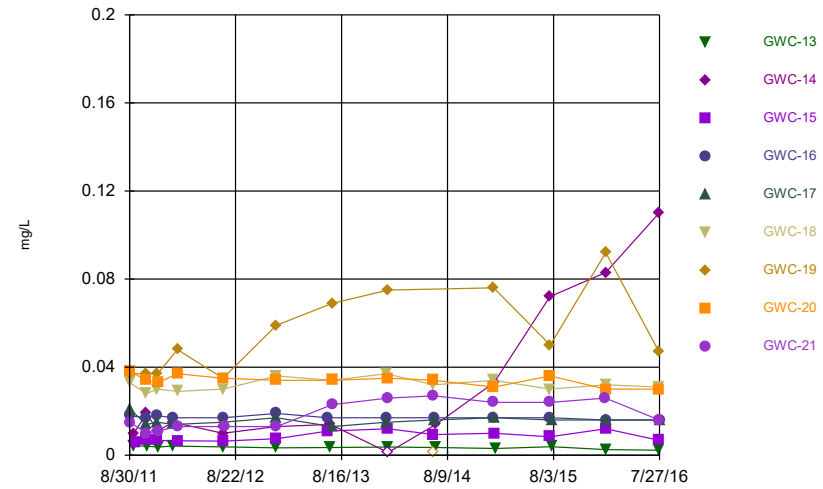
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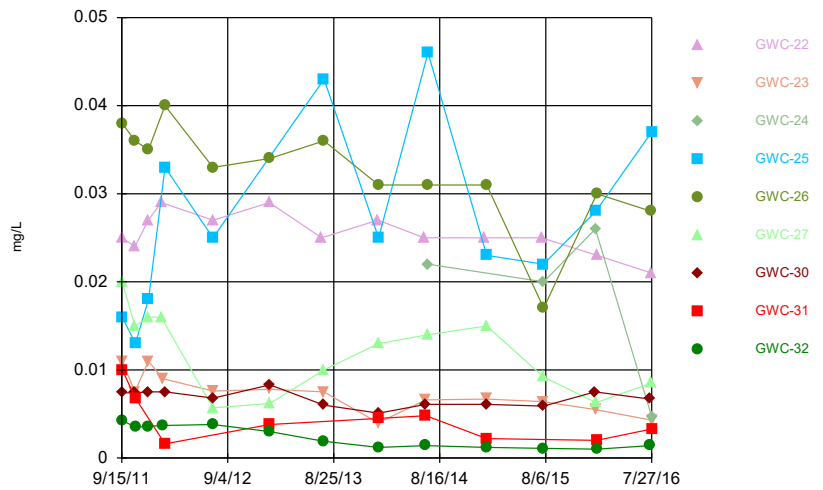
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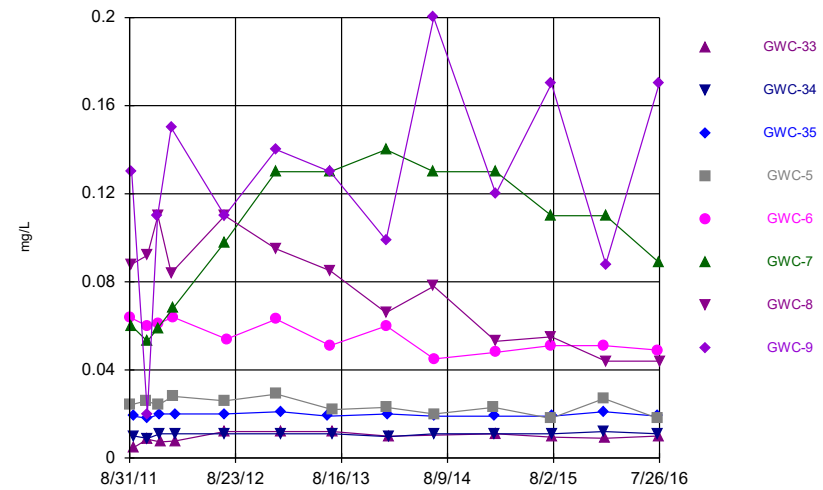
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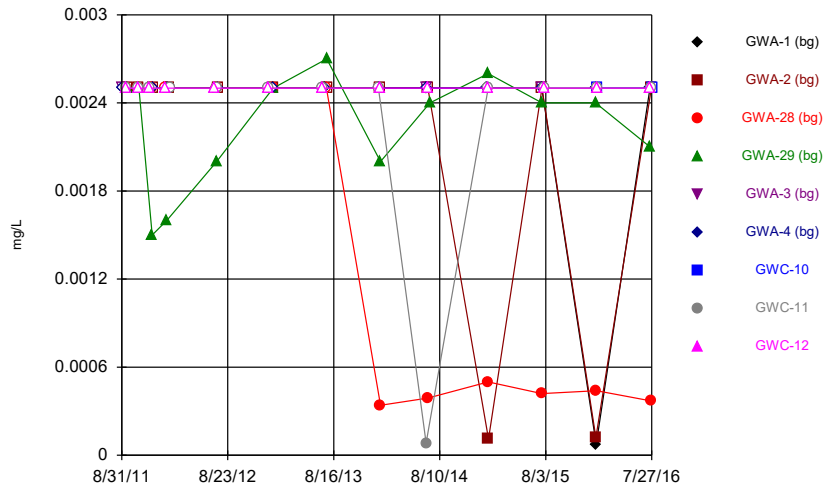
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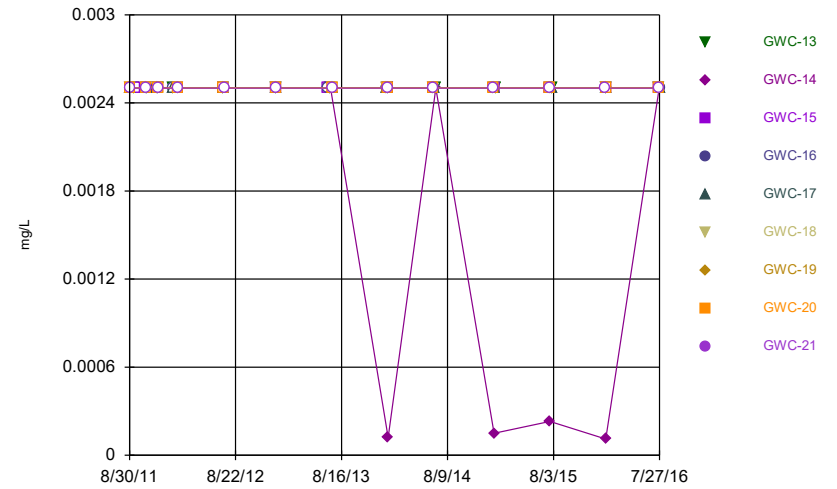
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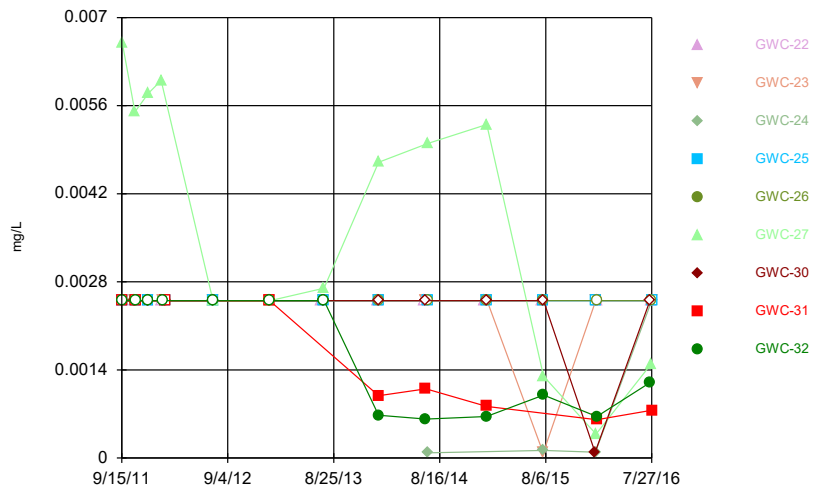
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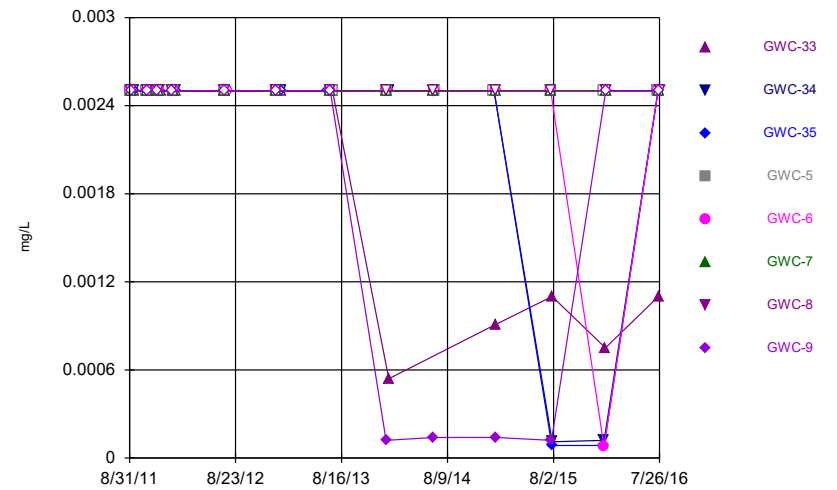
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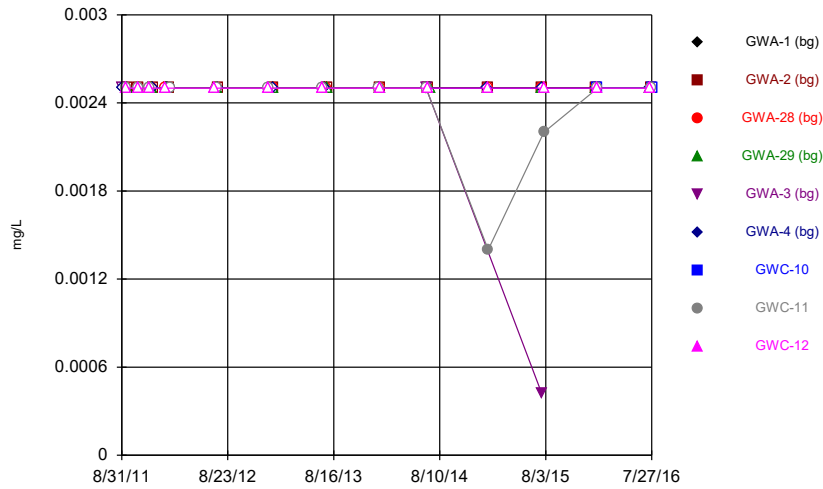
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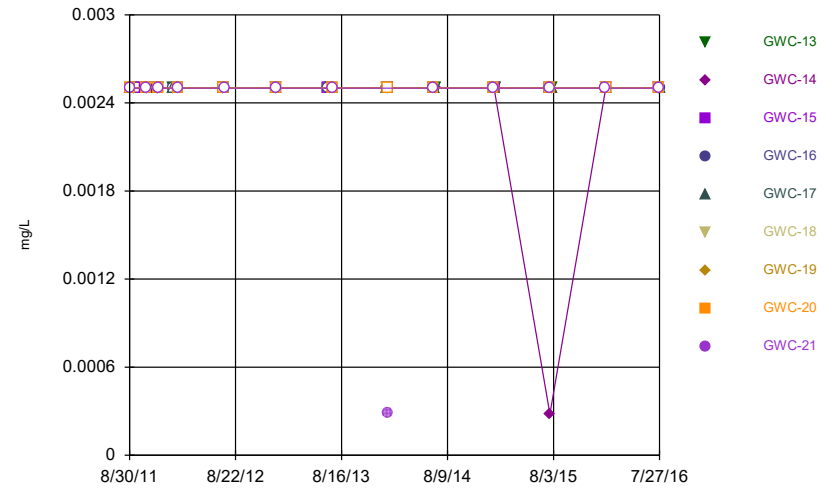
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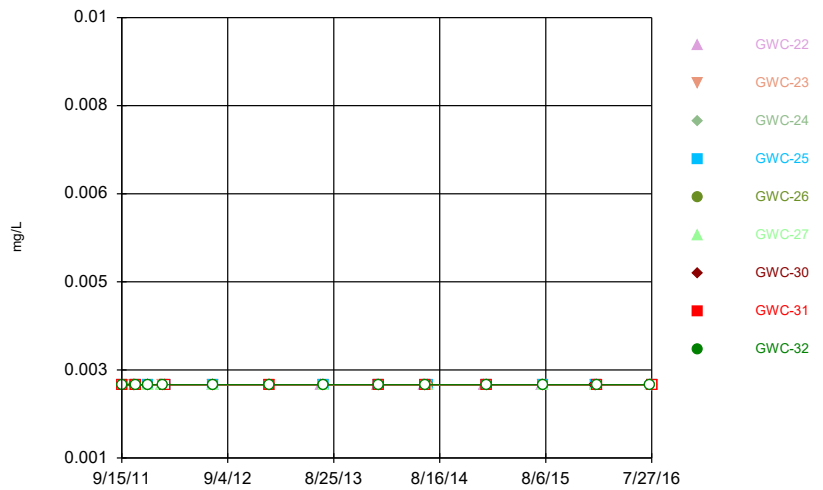
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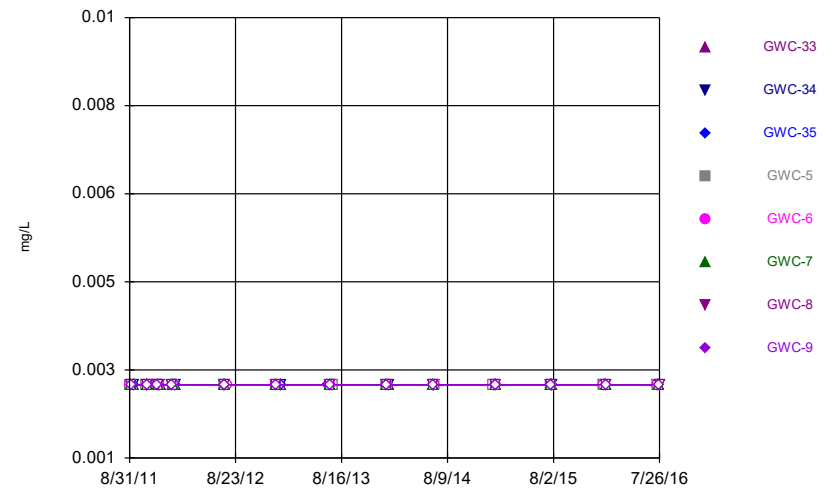
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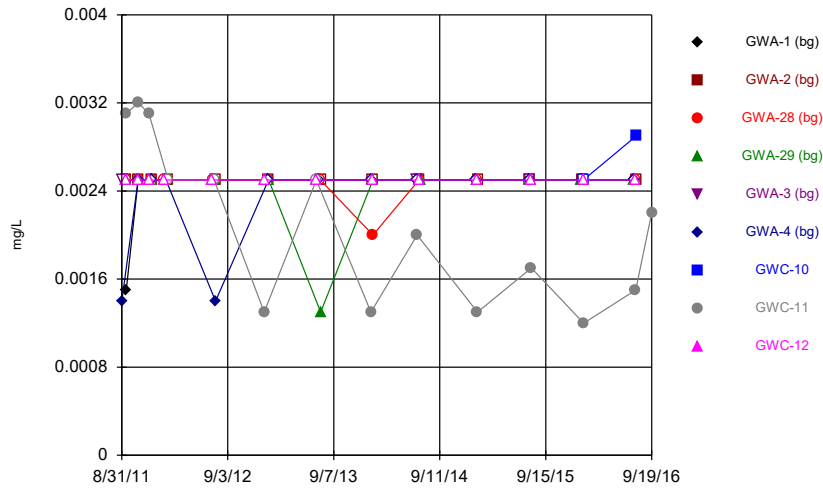
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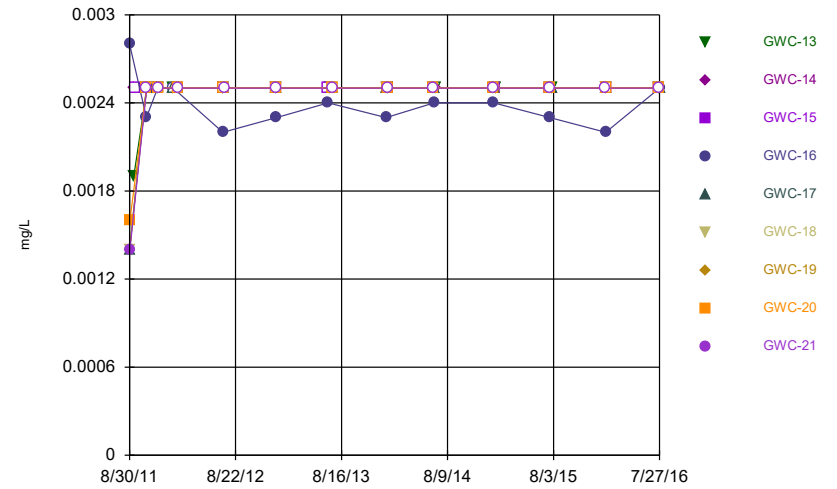
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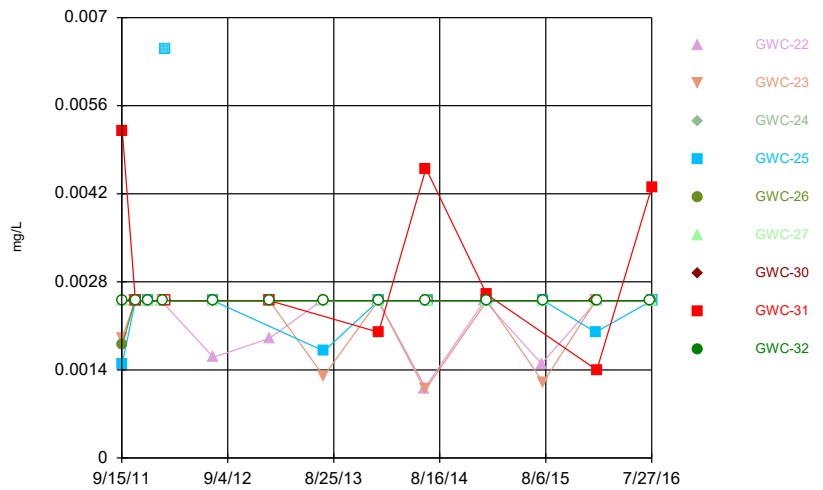
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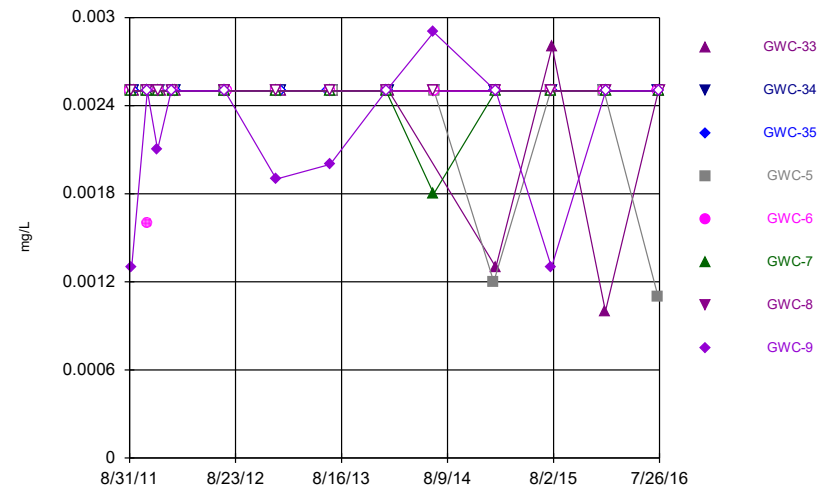
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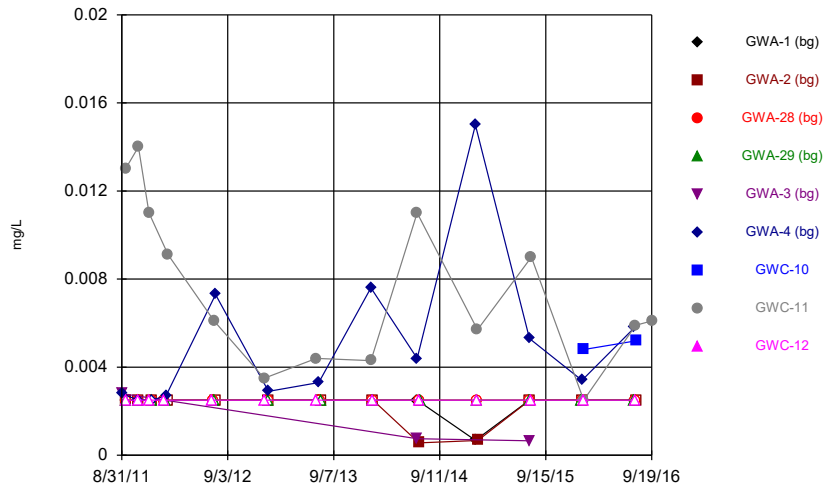
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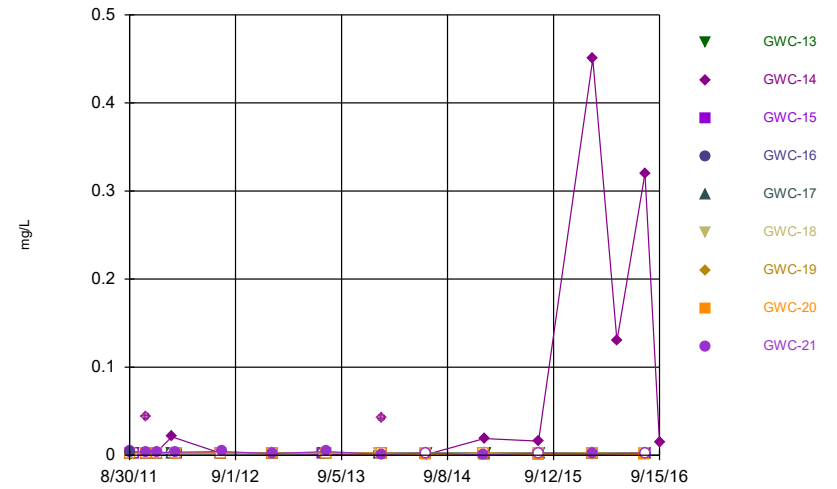
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Time Series



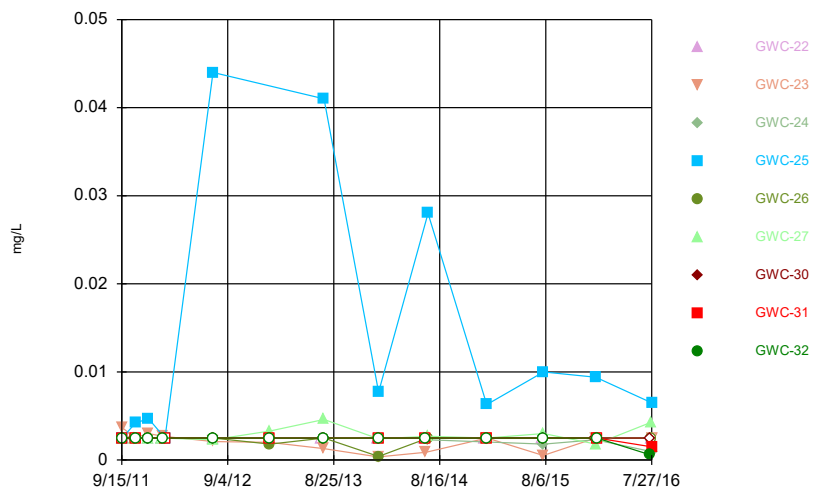
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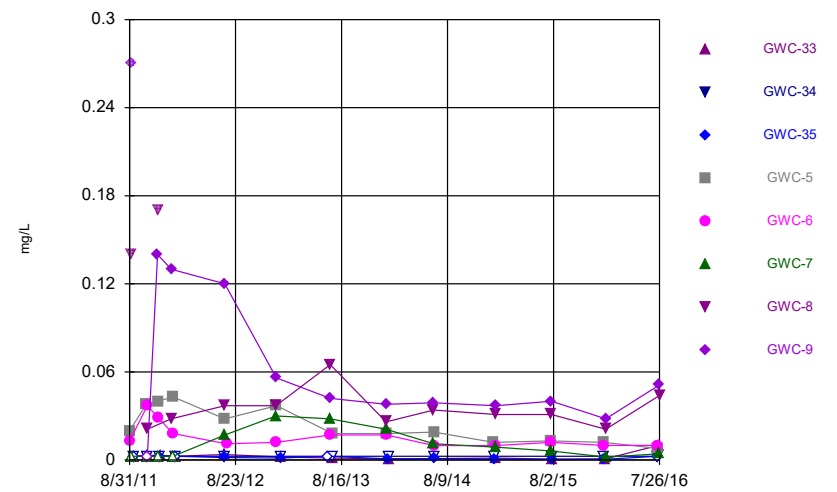
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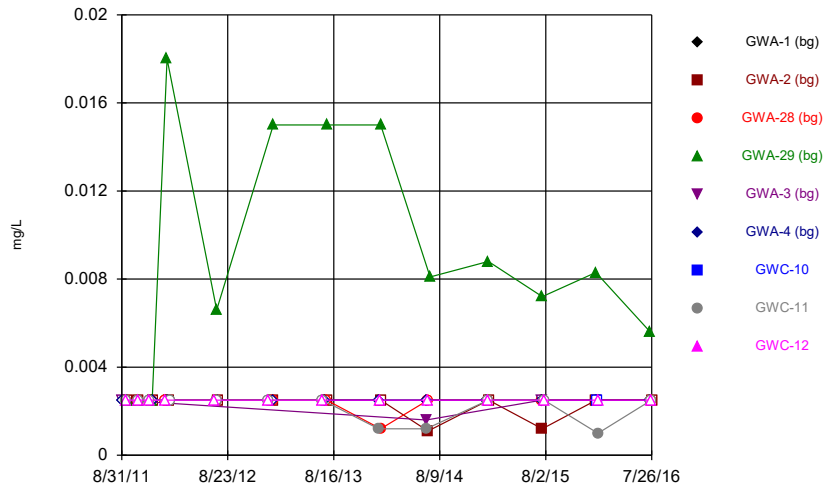
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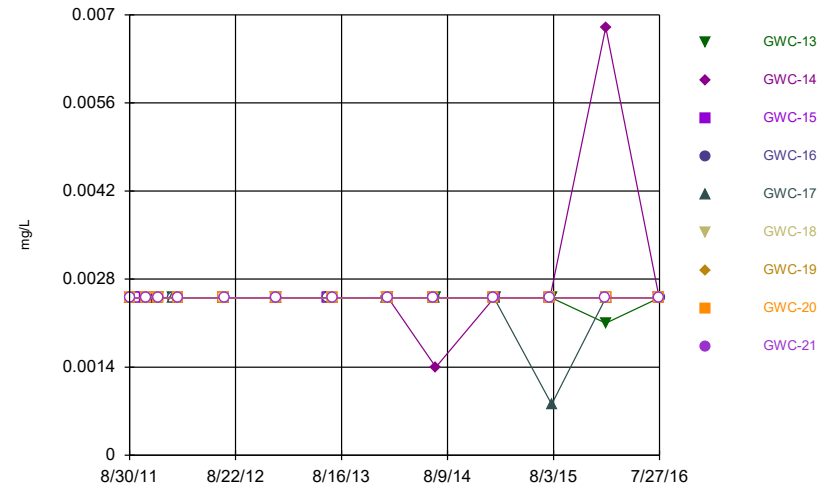
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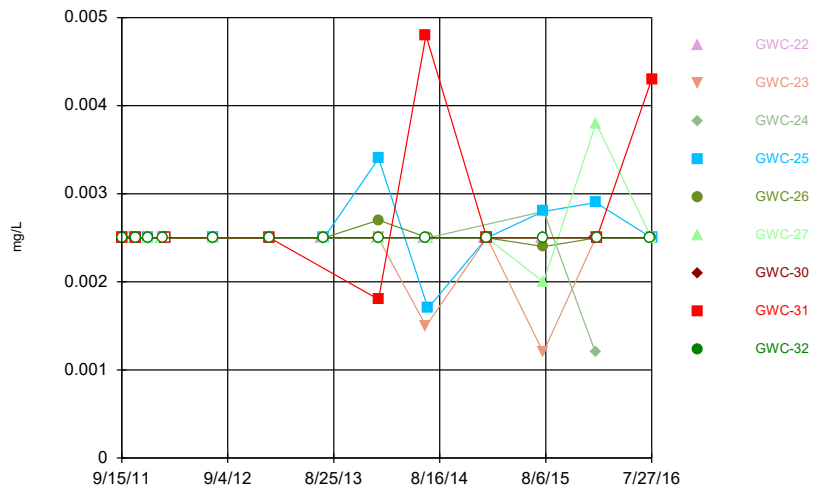
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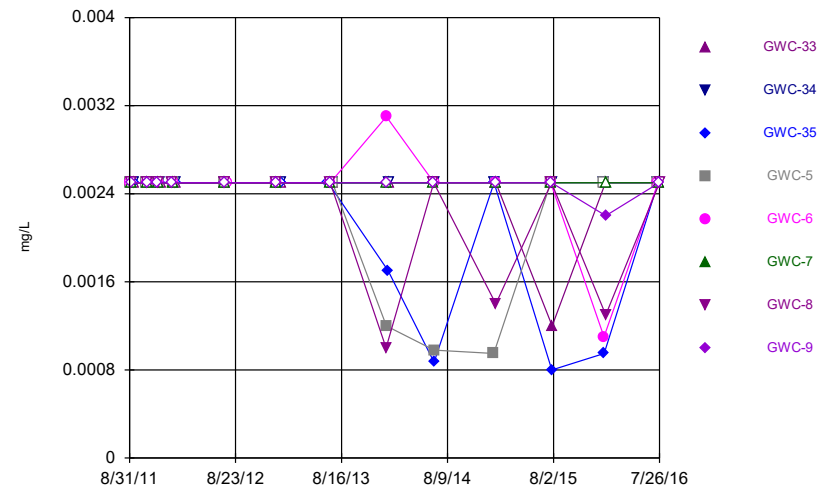
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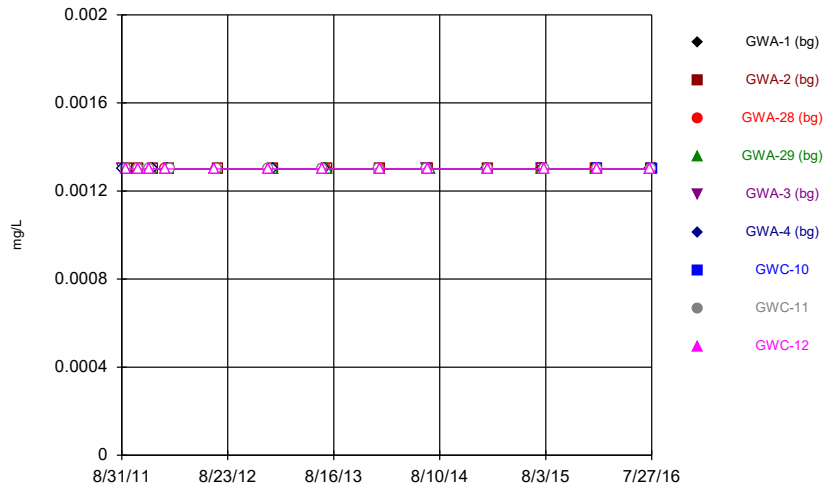
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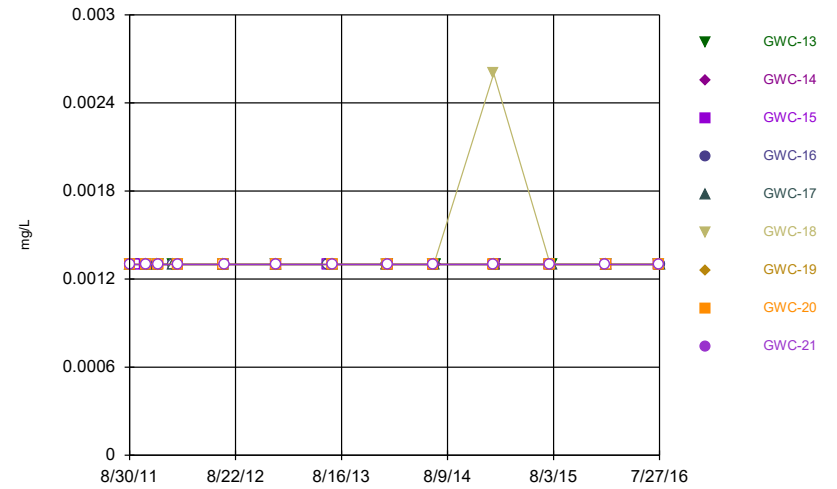
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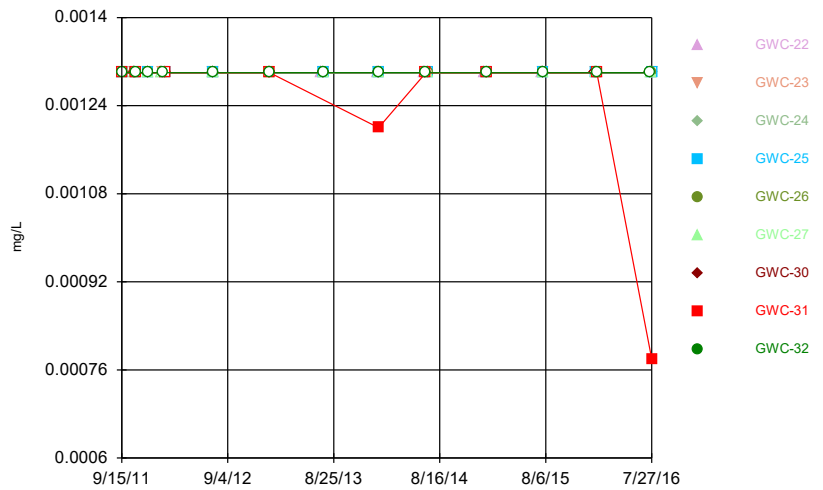
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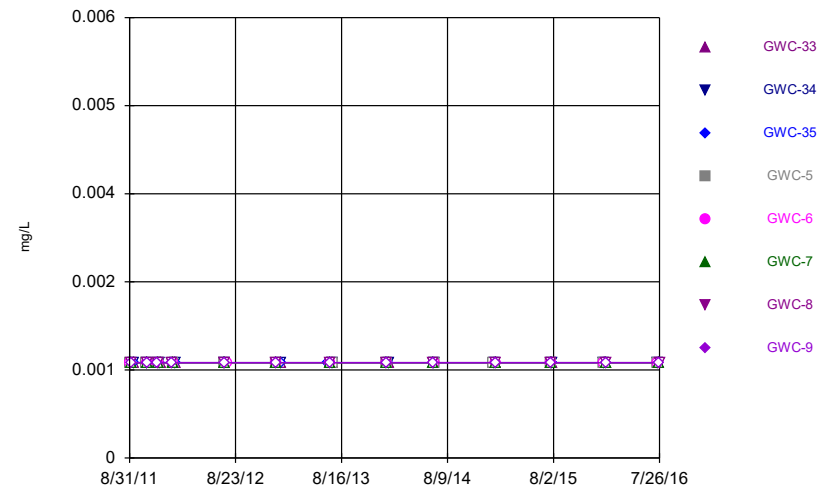
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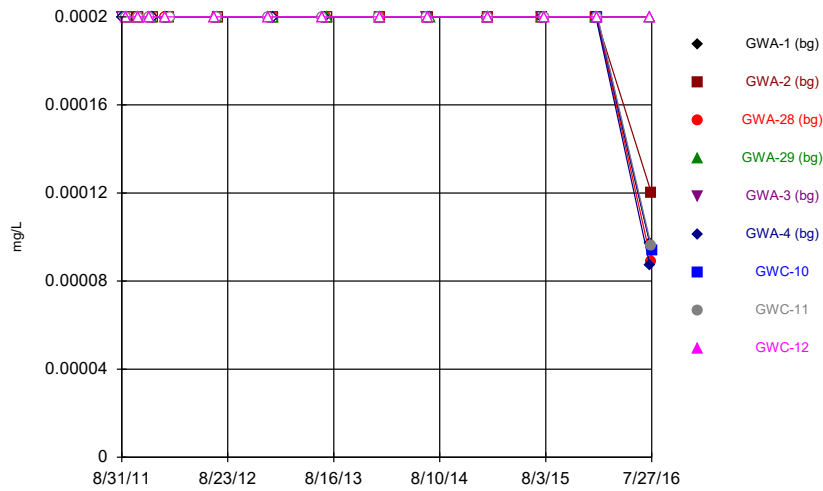
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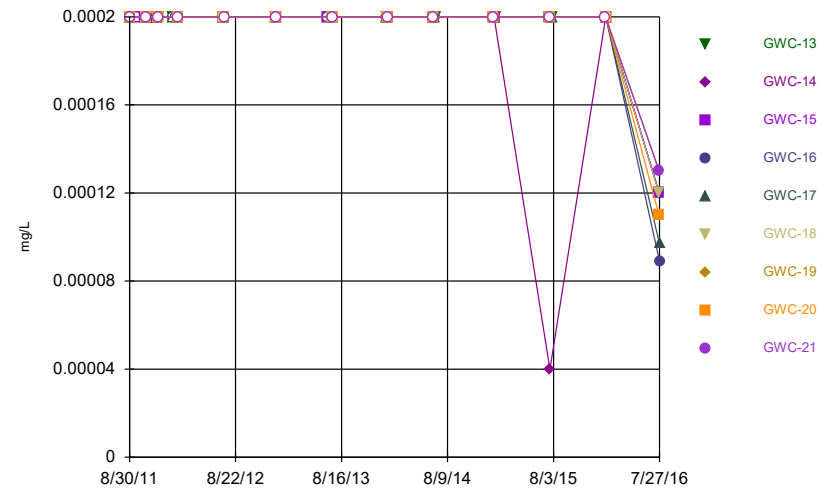
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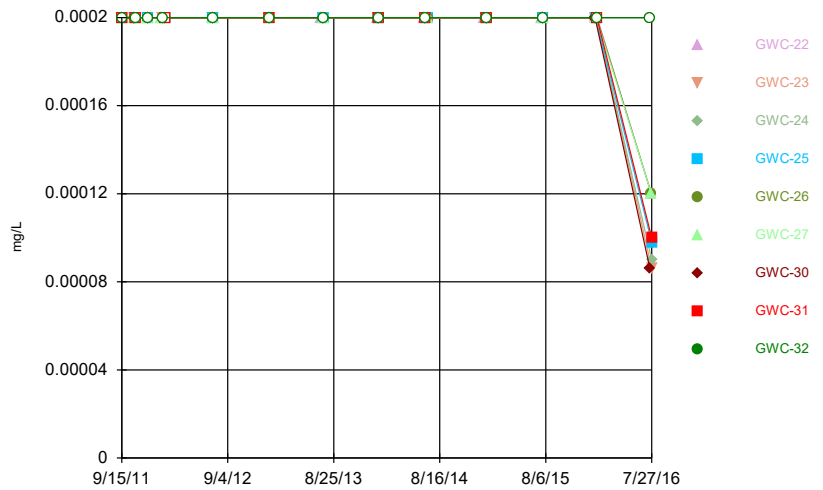
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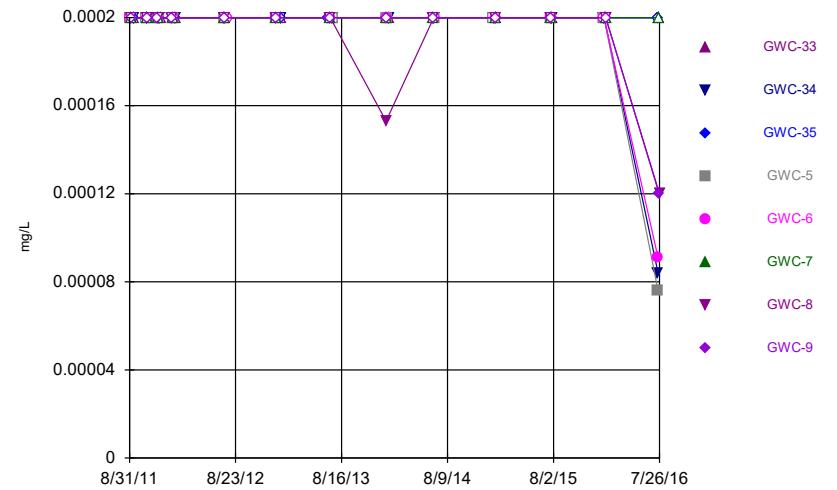
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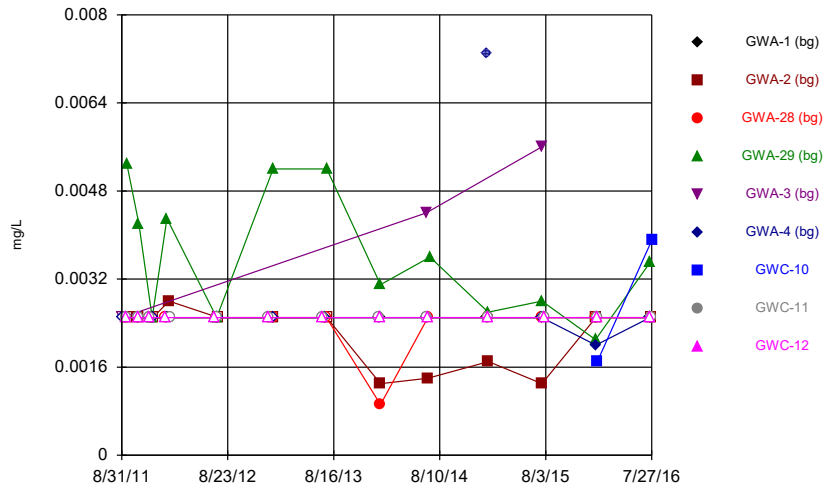
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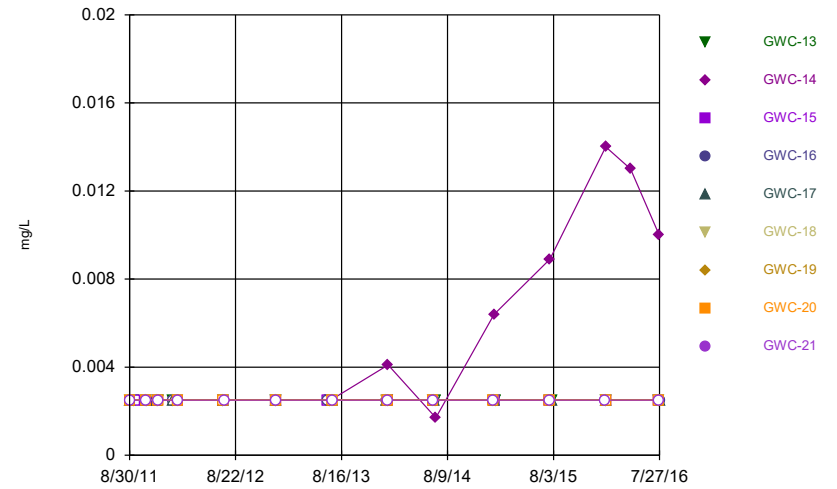
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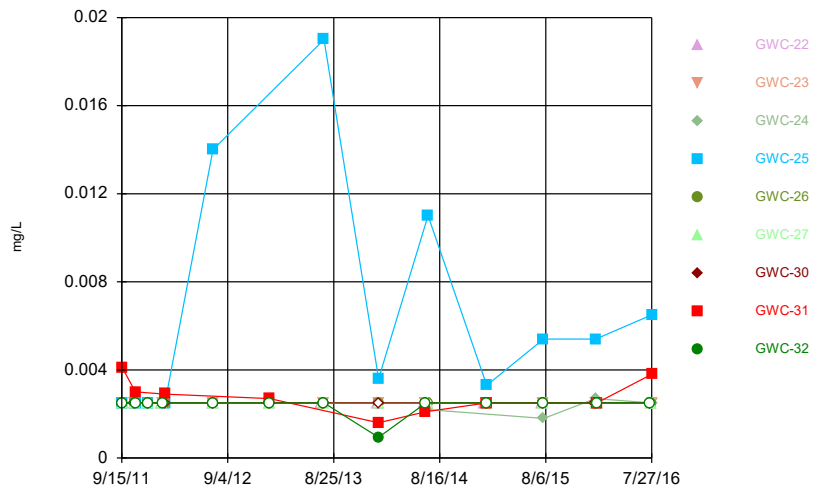
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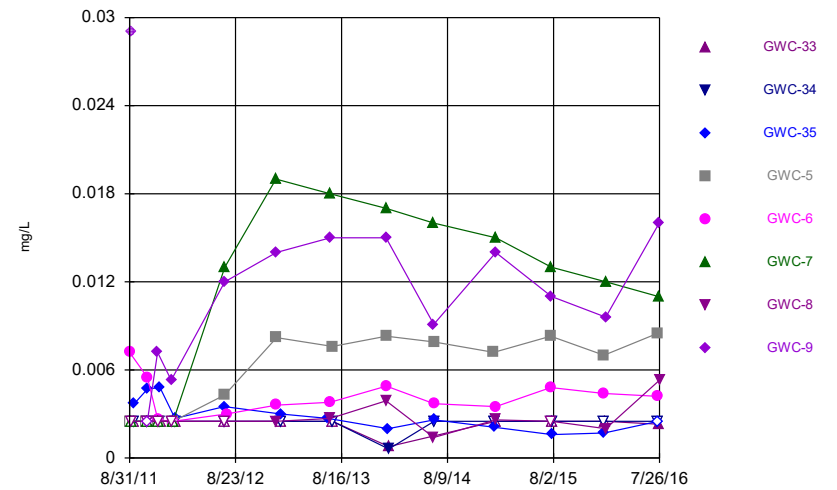
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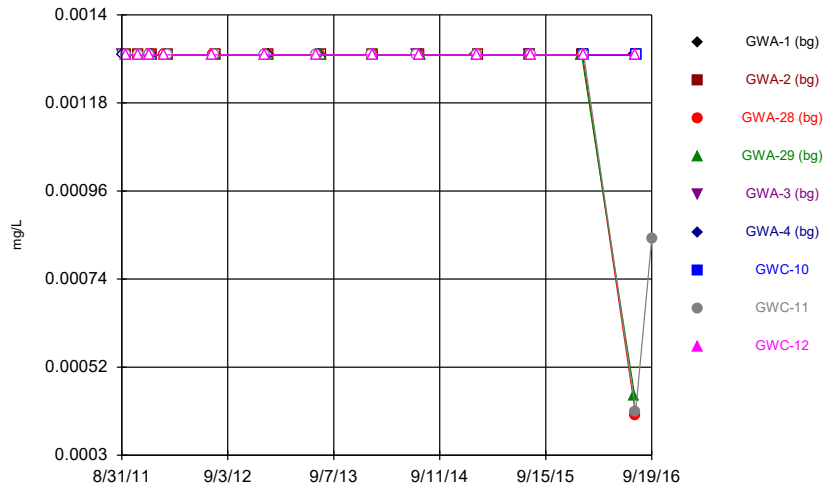
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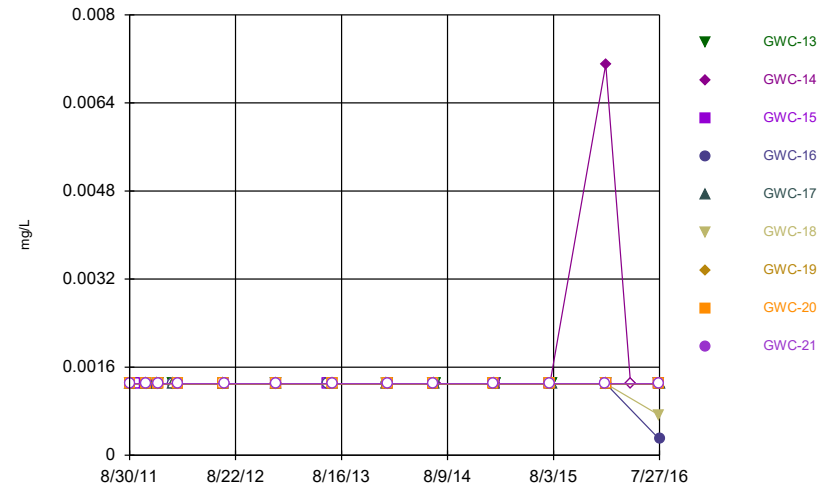
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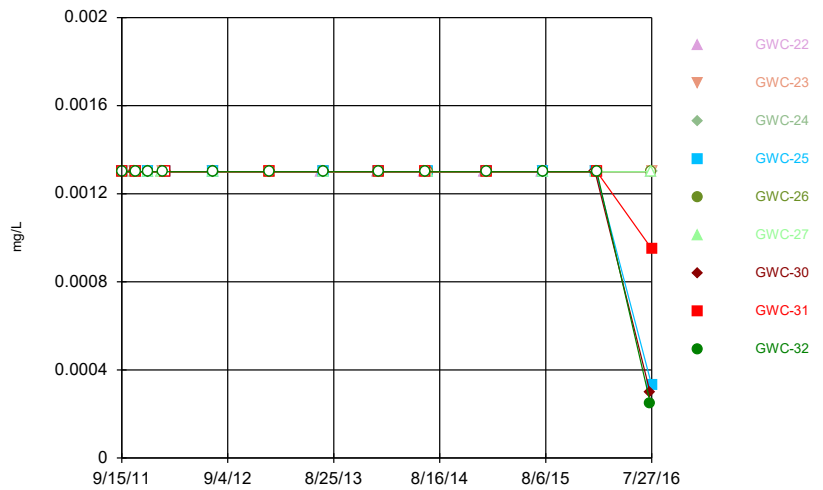
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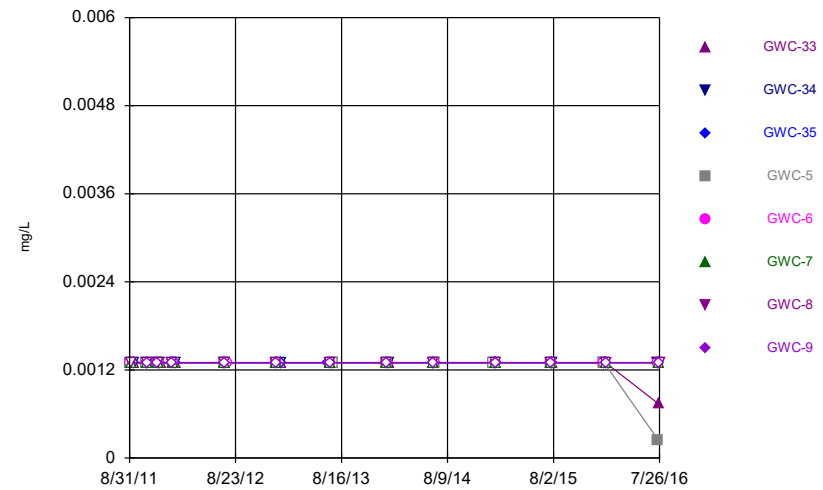
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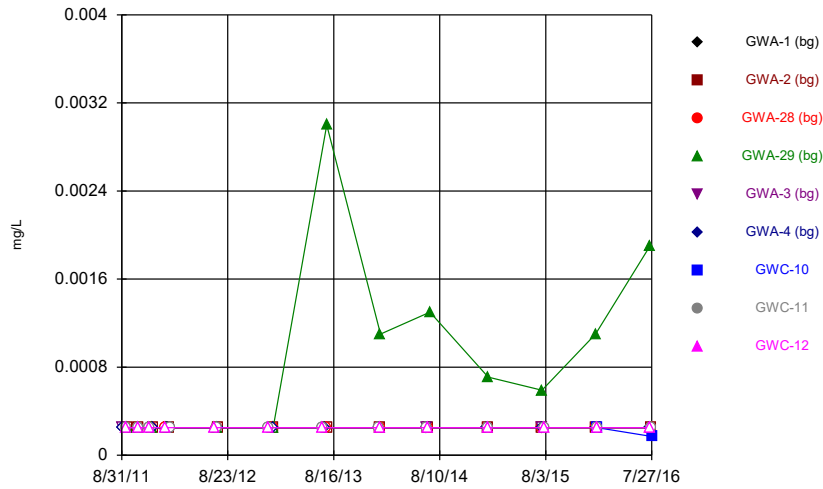
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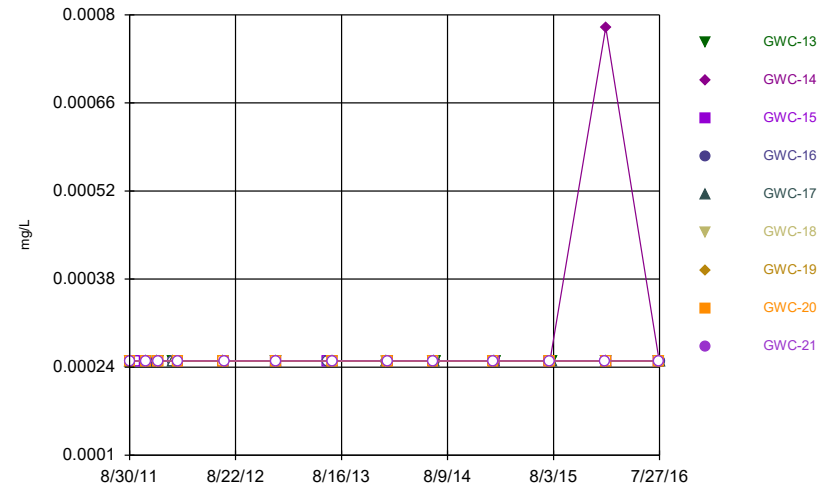
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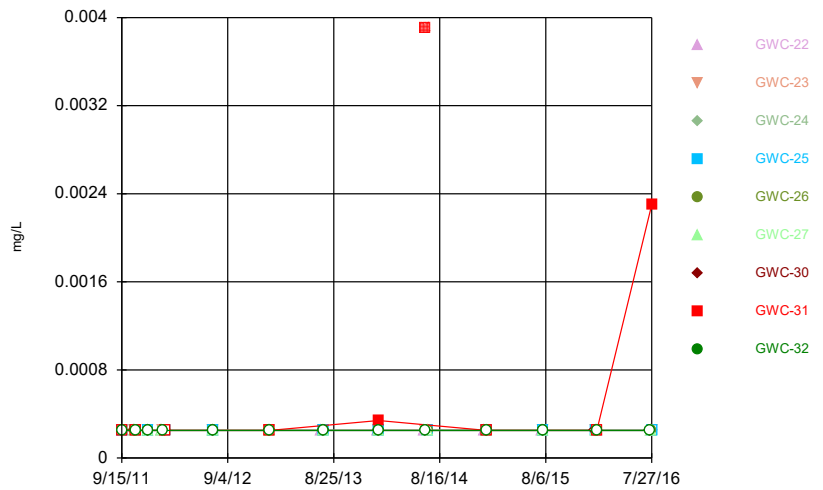
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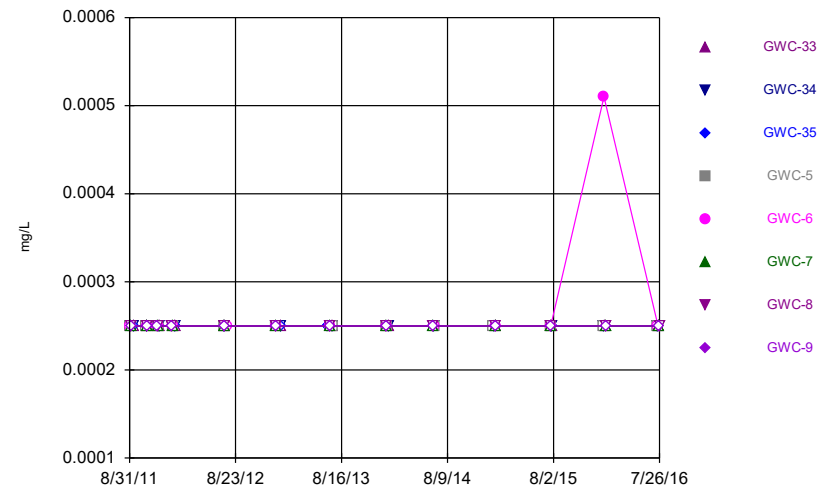
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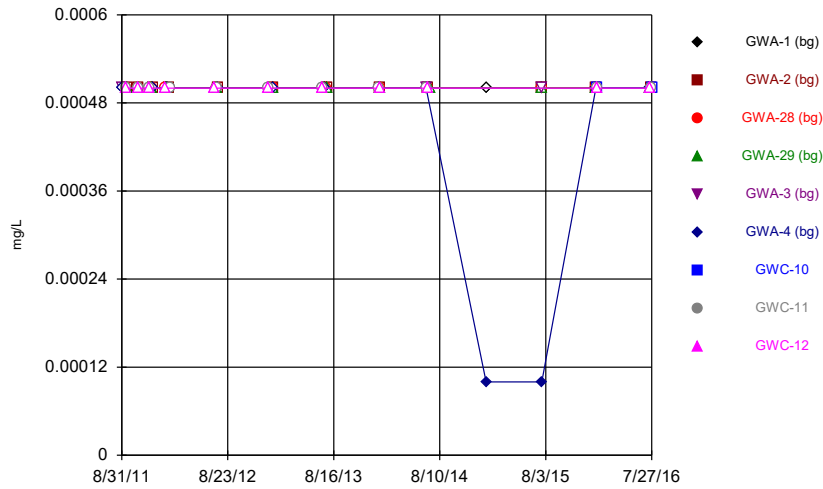
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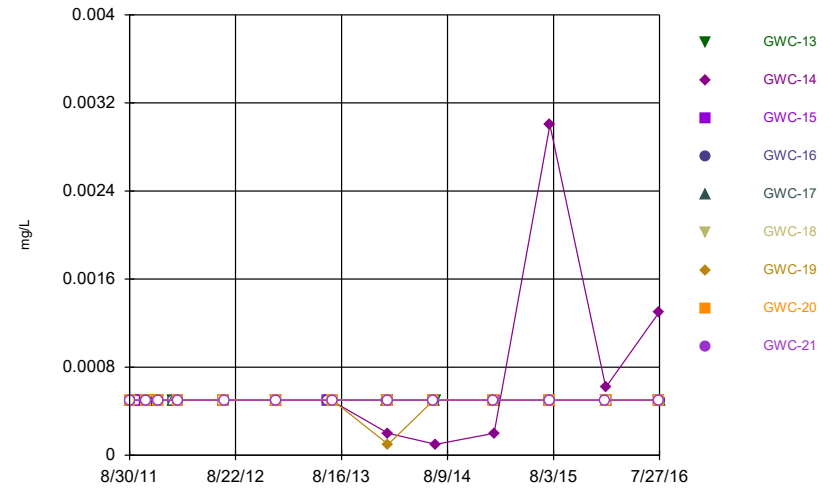
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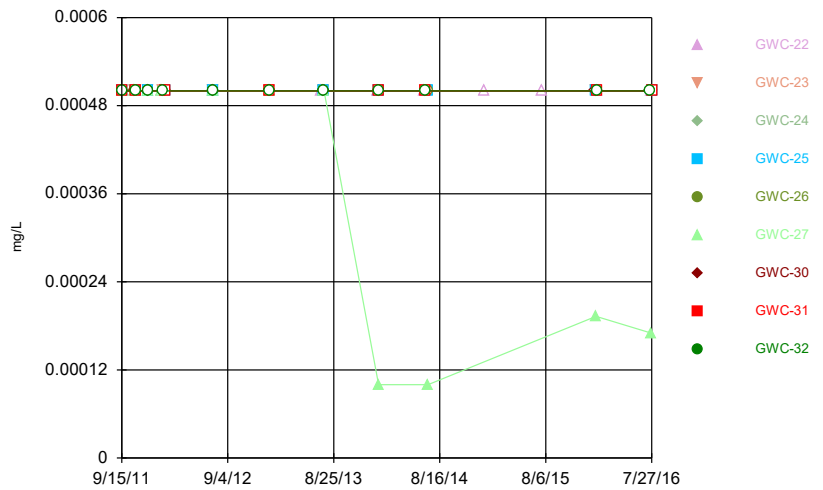
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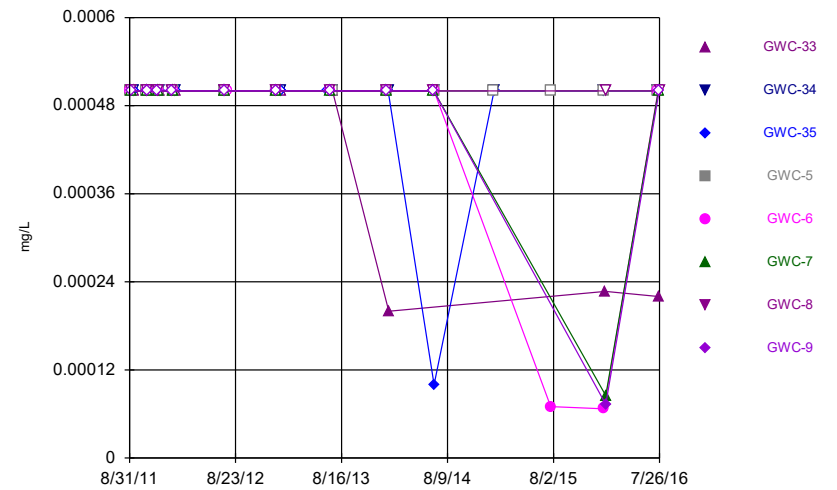
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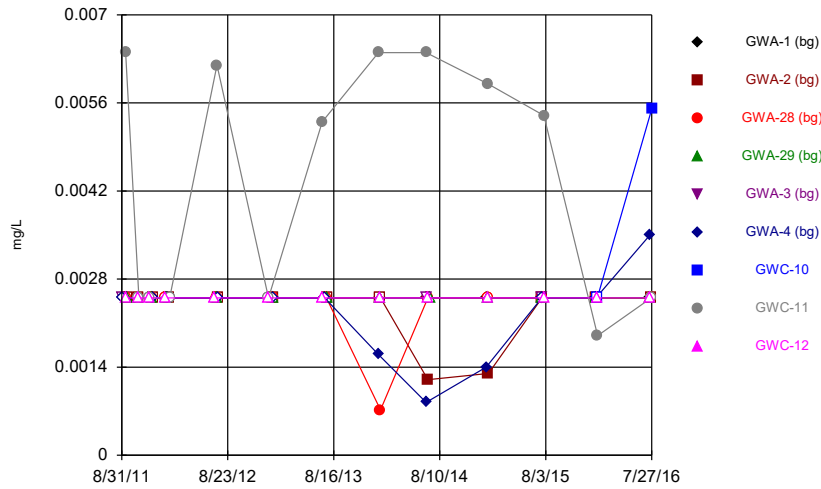
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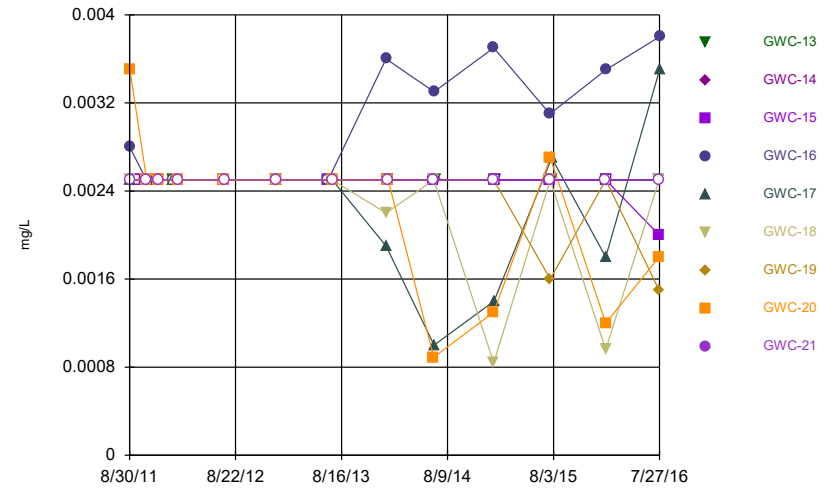
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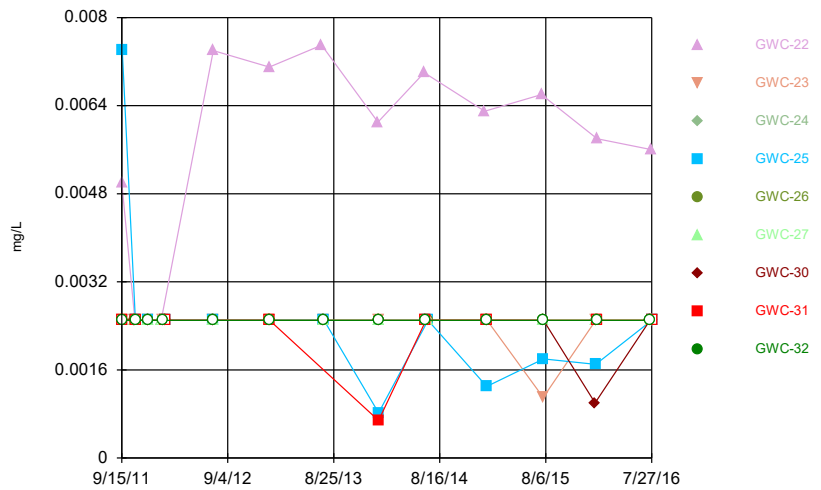
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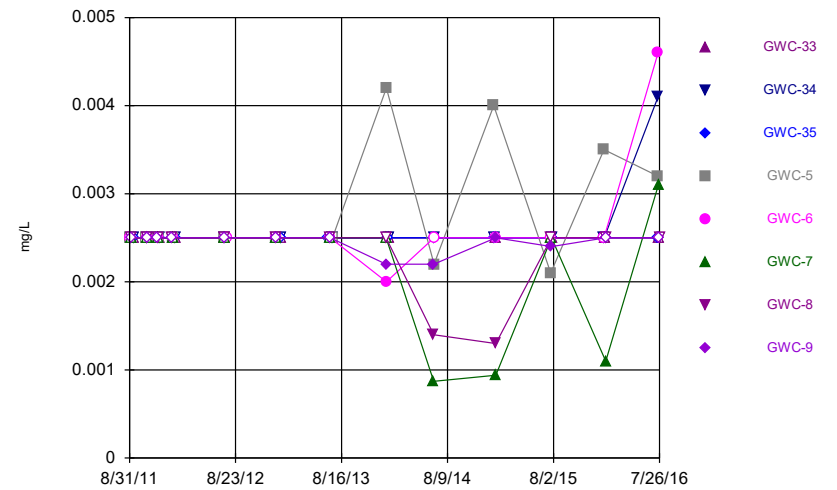
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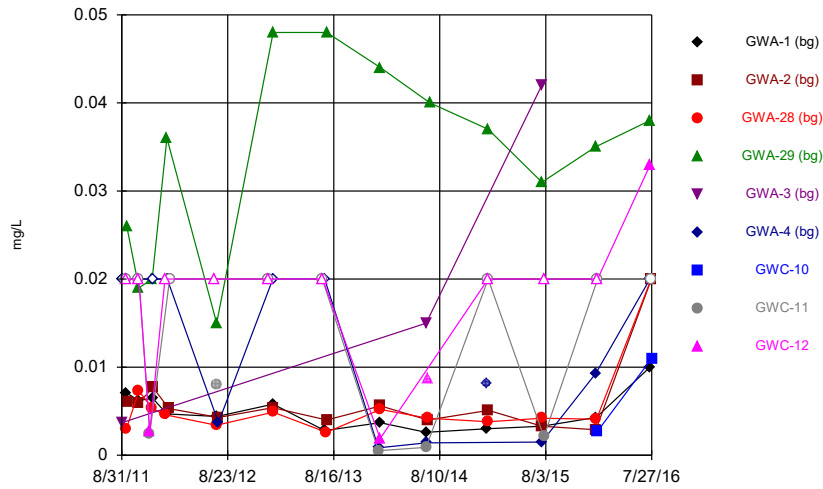
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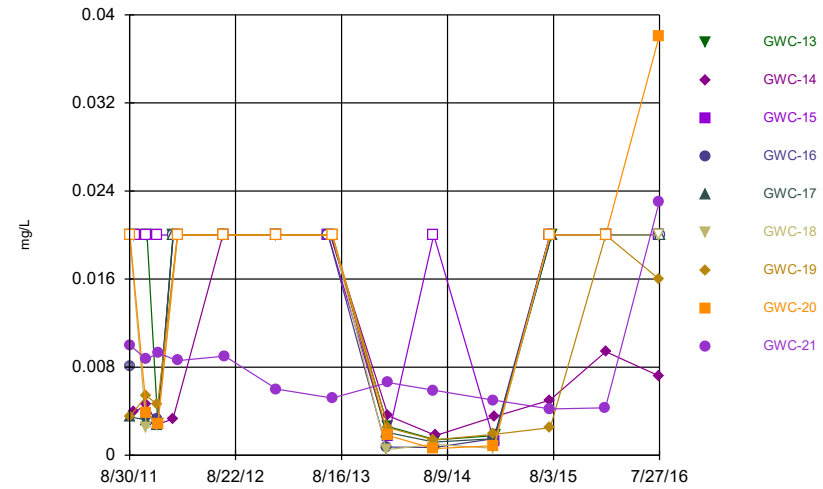
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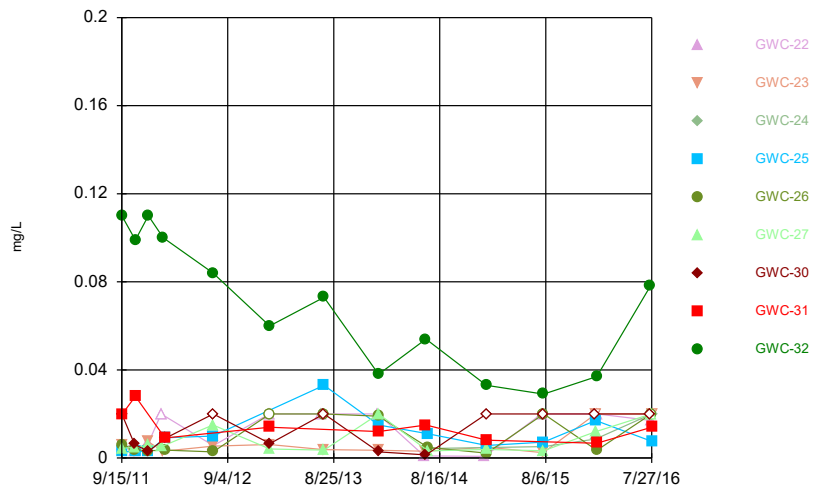
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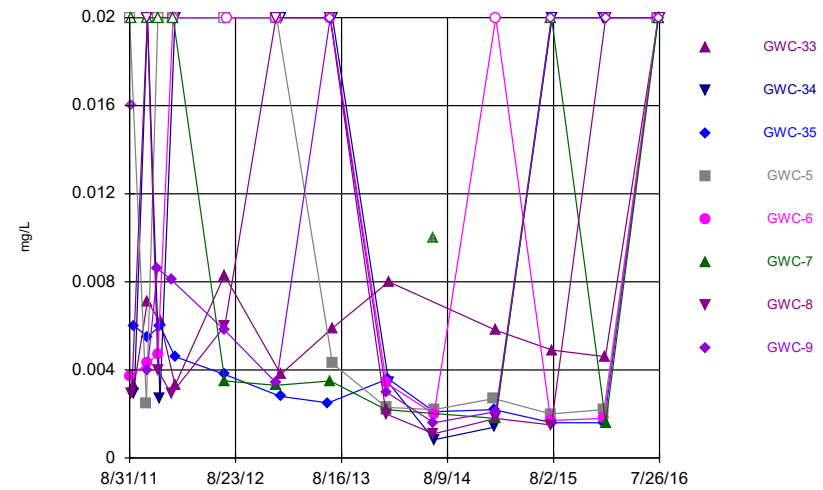
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Georgia Power Company
Plant Wansley CCR Landfill
PERMIT #: 074-005D(LI)
Heard County

Alternate Source Demonstration



Certification Statement

I hereby certify that the information used in this alternate source demonstration for the CCR Unit located at Georgia Power's Plant Wansley located at 1371 Liberty Church Road, Carrollton, Georgia, and designated as the Coal Combustion By-Product Disposal Facility, is accurate pursuant to the requirements of 40 CFR §257.94(e)(2).



Evan B. Perry, P.G.
Georgia Registered Professional
Geologist No. 1744
Originator



Richard T. Deason, P.E.
Georgia Registered Professional
Engineer No. 2213
Reviewer

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Cover Sheet

Certification Statement

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Appendices

Appendix A – In-Situ Operators Manual, SmarTROLL MP Handheld Instrument

SECTION 1

Introduction

This document presents an alternate source demonstration (ASD) for statistically significant increases (SSIs) as identified in the analysis of data collected during the second 2018 semi-annual monitoring event. This ASD has been prepared pursuant to 40 CFR 257.94(e)(2), which states that “the owner/operator may demonstrate that a source other than the coal combustion residual (CCR) unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.”

Georgia Power Company (GPC) – Plant Wansley Coal Combustion Residual (CCR) Landfill (the site) is located in northeast Heard County and southeast Carroll County on Liberty Church Road, approximately 12 miles southeast of the City of Carrollton. The plant property encompasses approximately 5,100 acres and the landfill is permitted to operate by the Georgia Environmental Protection Division (EPD) [Permit No. 074-005D(LI)]. The disposal facility is comprised of three cells within an approximate 73-acre disposal footprint. Figure 1, Plant Wansley CCR Landfill Site Location Map, depicts the site location referenced to regional landmarks. The facility has received only flue gas desulfurization gypsum waste from GPC – Plant Wansley to date, however a recently approved permit modification will allow for all forms of CCR to be disposed in the future.

In accordance with the United States Environmental Protection Agency (USEPA) CCR rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR21302-21501, April 17, 2015), the facility prepared the *2018 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at the site and satisfy the requirements of §257.90(e). Groundwater monitoring and reporting for the site is performed in accordance with the monitoring requirements §257.90 through §257.98. In that report, SSIs were identified as follows:

- pH: GWC-10 and GWC-18
- Total Dissolved Solids: GWC-23

SECTION 2

Alternate Source Demonstration

As allowed by §257.94(e)(2), the site may demonstrate that a source other than the CCR unit caused the SSI for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This report demonstrates an alternate source for SSIs of constituents included in Appendix III of 40 CFR §257 identified following analysis of the third detection monitoring event data. SSIs were identified for three groundwater monitoring network wells (GWC-10, GWC-18, and GWC-23). There are conditions unique to each SSI. Therefore, the following sections provide specific demonstrations, by well, to demonstrate that the site is not the source of the SSI. A recent potentiometric surface map is provided for reference as Figure 2, Plant Wansley CCR Landfill September 2018 Potentiometric Surface Map.

2.1 GWC-10 and GWC-18 (pH)

2.1.1 SSI Identification

Field measurements (pH) were identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* as SSIs at GWC-10 and GWC-18. Final readings of 5.50 and 5.77 Standard Units (S.U.) at GWC-10 and GWC-18, respectively were reported for the samples collected during the September 2018 detection monitoring event. These readings were below the respective lower prediction limits of 5.62 and 5.80 S.U. for GWC-10 and GWC-18.

2.1.2 Data Review

Background monitoring was completed from 2016 through 2017 and detection monitoring continues through 2018. As shown in Figure 3, pH Box & Whiskers Plot the median value of observed pH at GWC-10 from background and detection monitoring was calculated to be 6.32 S.U. with a minimum value of 5.51 S.U. and a maximum value of 6.69 S.U. The median value of observed pH at GWC-18 from background and detection monitoring was calculated to be 5.98 S.U. with a minimum value of 5.77 S.U. and a maximum value of 6.07 S.U.

2.1.3 Alternate Source Review

All field readings for pH have been made with smarTROLL multiparameter water quality meters manufactured by In-Situ. Based on a review of page 10 of the equipment's user manual, the pH sensor specifications states that the accuracy of the sensor is +/- 0.1 pH unit from 0 to 12 pH units. Therefore, the observed pH value at GWC-10 (5.50 S.U.) during the September monitoring event and the lower prediction limit of 5.62 S.U. are within the overlapping ranges of accuracy. The pH value of 5.77 S.U. reported at GWC-18 is not significantly different than its lower limit if 5.80 S.U. (i.e. the meter is not considered accurate to the hundredths decimal place and a difference of 0.03 pH units cannot be considered significant). The smarTROLL user manual is included in Attachment A.

All other Appendix III data collected from this well were within historical concentration ranges and statistical limits. The relatively low pH levels measured during this event may be related to slightly greater background variability than what was characterized during background monitoring.

2.1.4 Summary and Recommendations

The smarTROLL pH probe sensor specifications meet the EPA's requirements of an accuracy of 0.1 S.U., have a range of 0 to 14, and are equipped with a temperature-compensation adjustment. Future statistical analysis should take into account the accuracy of the smarTROLL (i.e. ±0.1 pH unit rather than ±0.01 pH unit) and make adjustments to reflect that accuracy. The SSI is due to a natural variation in groundwater quality and error in statistical analysis (i.e. exceedance caused by non-significant figure). The monitoring well should remain in detection monitoring as an alternate source was identified.

2.2 GWC-23

2.2.1 SSI Identification

Total dissolved solids (TDS) was identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* as SSIs at this location. The concentration 140 mg/L was reported in the sample collected during the September 2018 detection monitoring event exceeded the site prediction limit of 94 mg/L.

2.2.2 Data Review

Prior to the September sampling event the concentration of TDS at GWC-23 ranged from 4 to 54 mg/L showing slight variability during monitoring. Figure 4, Time Series Plot for GWC-23, shows the concentration of TDS over the background and detection monitoring events. The concentration of TDS during the September monitoring event of 140 mg/L is higher than all background and prior detection monitoring events.

2.2.3 Alternate Source Review

Quality control procedures included calculating the relative percent difference (RPD) between sample and sample duplicate concentrations. This is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2) / 2} \times 100\%$$

Table 1, Quality Control Data – September 2018, provides the quality control data for the September 2018 sampling event. The RPD values calculated on reported concentrations of TDS for the practical quantitation limit (PQL) ranged from 4.3 to 52.6 percent based on the replicate data (Dup-01, Dup-02, Dup-03, and Dup-04) for samples (GWC-6, GWC-22, GWC-13, and GWC-5, respectively). EPA guidance for data quality assessment recommends a difference of less than 20 percent (EPA, 1989).

Internal laboratory controls (MS/MSD) do not indicate data quality issues and three out of the four replicant data comparisons are within EPA guidance. However, one of the replicant data comparisons (GWC-6 & Dup-01) is well outside of the 20 percent guidance and two other replicant data comparisons (GWC-22 & Dup-02/GWC-13 & Dup-03) are close to the 20 percent (18.2% and 14.9%, respectively) guidance limit.

Slight variations may occur in the field between collection of the parent sample and duplicate sample which could explain the difference in TDS concentration between parent and replicant sample. However, having three out of four replicant samples near or above the EPA guidance could also indicate deficiencies in laboratory analysis process.

Figure 4 shows the concentration of TDS and conductivity for GWC-23 over background and detection monitoring events. The conductivity observed over this time period shows a stable range of 44.6 $\mu\text{S}/\text{cm}$ to 56.06 $\mu\text{S}/\text{cm}$. Conductivity and TDS are correlated in that conductivity measures the liquid capacity to conduct an electric charge which depends on the dissolved ion concentration which is measured in TDS. Thus, an increase in TDS should correspond to an increase in conductivity and vice versa. The concentration of TDS at GWC-23 for the September sampling event was 140 mg/L which is higher than the range of TDS concentrations from GWC-23 previously mentioned. With an increase in TDS concentration there should be a corresponding increase in conductivity. However, the conductivity for this event was recorded at 45.09 $\mu\text{S}/\text{cm}$ which falls within its previous range.

The laboratory's internal quality control measures and field duplicates indicate the potential for inaccurate TDS values to be reported. The lack of a corresponding increase in specific conductance at GWC-23 indicates that conditions are stable at the well and that there was not an actual increase in the TDS concentration.

2.2.4 Summary and Recommendations

The CCR unit is not the source of the TDS SSI at GWC-23. The apparent source is deficiencies in laboratory analysis process. Future routine analyses will allow verify that this TDS result was an anomaly. The SSI is due to an error in analysis. The monitoring well should remain in detection monitoring as an alternate source was identified.

SECTION 3

Conclusions and Recommendations

The 2018 Annual Groundwater Monitoring and Corrective Action Report was prepared to satisfy the requirements of §257.90(e). In that report SSIs were identified for three groundwater monitoring locations: GWC-10 (pH), GWC-18 (pH) and GWC-23 (TDS). This ASD has identified the following sources for each location with an SSI:

- GWC-10
 - Error in Statistical Analysis (SSI caused by a difference within the overlapping margins of instrumental accuracy)
 - Natural Variation in Groundwater Quality (background monitoring did not characterize the full range of pH values present at this location)
 -
- GWC-18
 - Error in Statistical Analysis (SSI caused by a non-significant figure)
 - Natural Variation in Groundwater Quality (background monitoring did not characterize the full range of pH values present at this location)
- GWC-23
 - Error in Analysis (Internal and external laboratory quality control indicate the potential for error in TDS concentrations; field data confirm that the TDS level is anomalous)

All locations have met the requirements for a demonstration listed in §257.94(e)(2). Therefore, all locations should remain in detection monitoring at this time. Detection monitoring results should continue to be presented in the Annual Groundwater Monitoring and Corrective Action Reports, as well as state semi-annual groundwater monitoring reports.

SECTION 4 References

ACC, Inc. *2018 Annual Groundwater Monitoring Report and Corrective Action Report*, Plant Wansley CCR Landfill, 2018.

Southern Company Generation Engineering and Construction Services, Design and Operation Plans, Plant Wansley Coal Combustion By-Product Disposal Facility, 2012.

Southern Company Services (SCS), *Alternate Source Demonstration for Plant Wansley Disposal Facility Groundwater Monitoring Network*, 2017.

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TABLES



PROJECT NUMBER: I054-110 PAGE: 1 OF 1
 PROJECT NAME: Plant Wansley LF BY: RW DATE: December 2018
 SUBJECT: Plant Wansley LF CHK'D: MM DATE: December 2018

Table 1 - Quality Control Data
 Relative Percent Difference

Equation

$$RPD = \frac{A - B}{\text{Avg}(A,B)} \times 100\%$$

where: RPD = relative percent difference
 A = original concentration
 B = duplicate comparison concentration

Values Used in Calculation

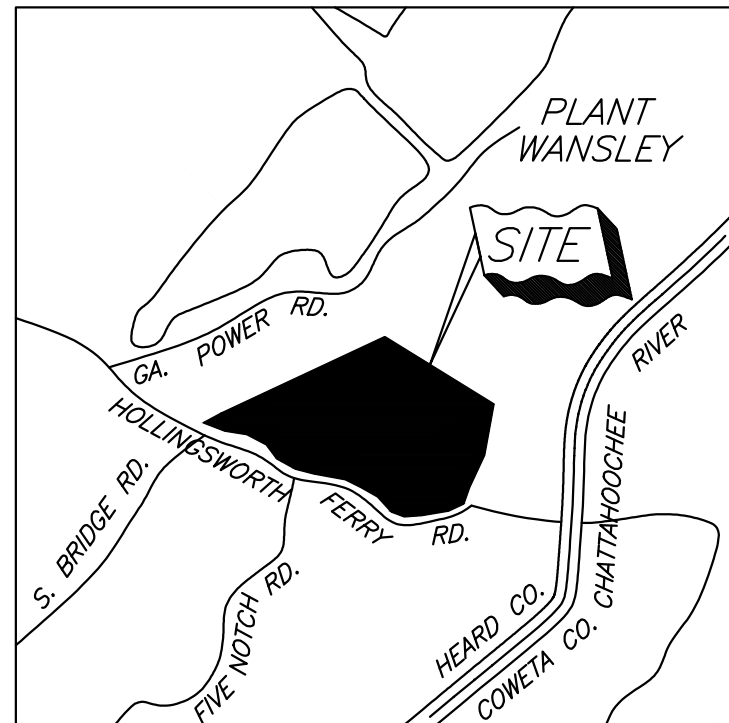
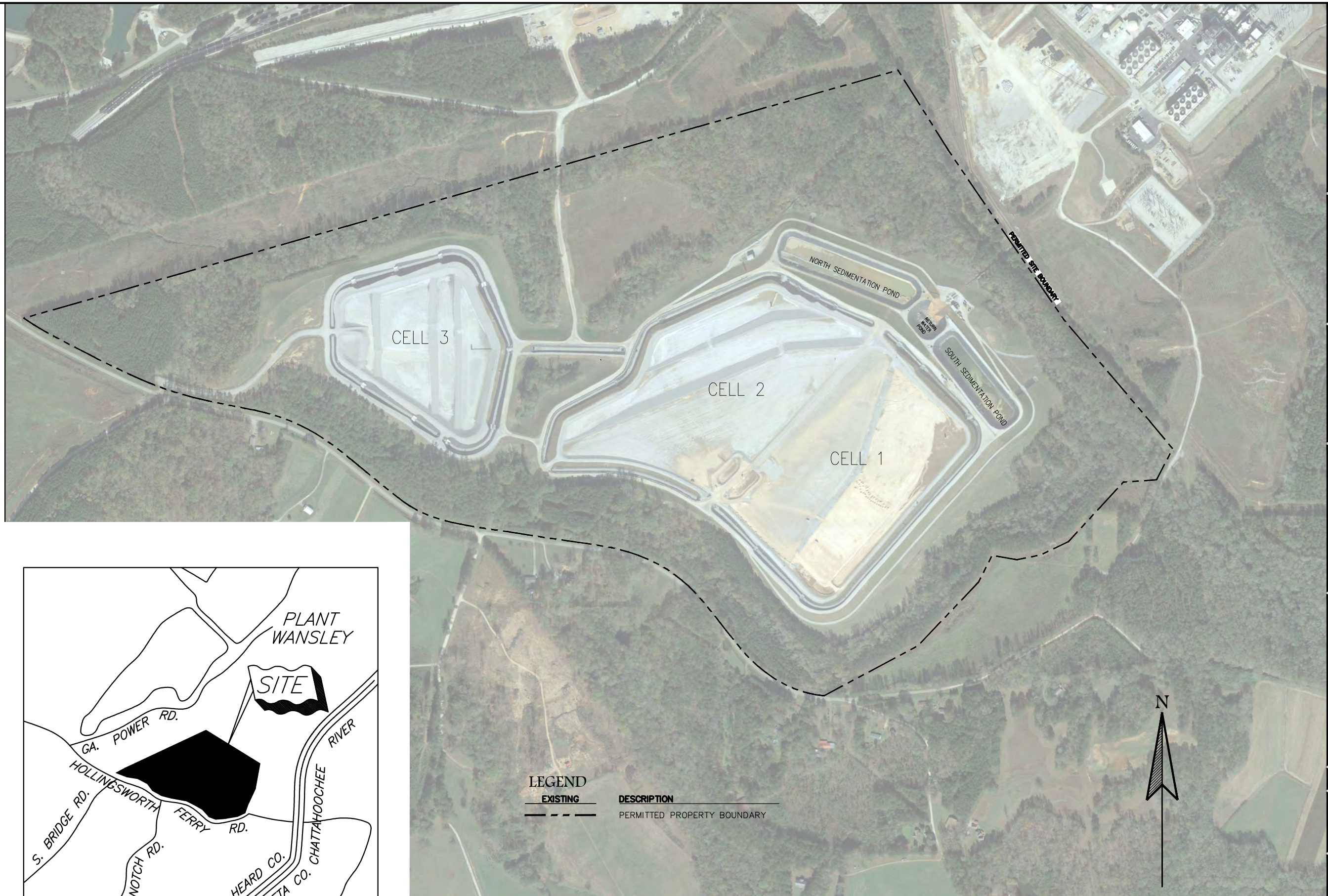
Comparison	Concentrations	Calculated Value
GWC-6 & DUP-01 TDS	A = 70 B = 120	52.6%

Comparison	Concentrations	Calculated Value
GWC-22 & DUP-02 TDS	A = 100 B = 120	18.2%

Comparison	Concentrations	Calculated Value
GWC-13 & DUP-03 TDS	A = 62 B = 72	14.9%

Comparison	Concentrations	Calculated Value
GWC-5 & DUP-04 TDS	A = 230 B = 240	4.3%

FIGURES



LOCATION MAP

ACC
ATLANTIC COAST CONSULTING, INC.
 630 Colonial Park Dr.
 Suite 110
 Roswell, GA 30075
 o 770.594.5998
 www.atlcc.net

PROJECT:
PLANT WANSLEY CCR LANDFILL

1371 LIBERTY CHURCH ROAD
 CARROLTON, GEORGIA

REVISIONS

NO.	DATE	DESCRIPTION

Drawn by: MM Checked by: EP

PROJECT NUMBER:
I054-110
 January 2019

SITE LOCATION MAP

FIGURE 1



ATLANTIC COAST CONSULTING, INC.

630 Colonial Park Dr.
Suite 110
Roswell, GA 30075
o 770.594.5998
www.atlcc.net

PROJECT:

PLANT WANSLEY
CCR LANDFILL

1371 LIBERTY CHURCH ROAD
CARROLLTON, GEORGIA

REVISIONS

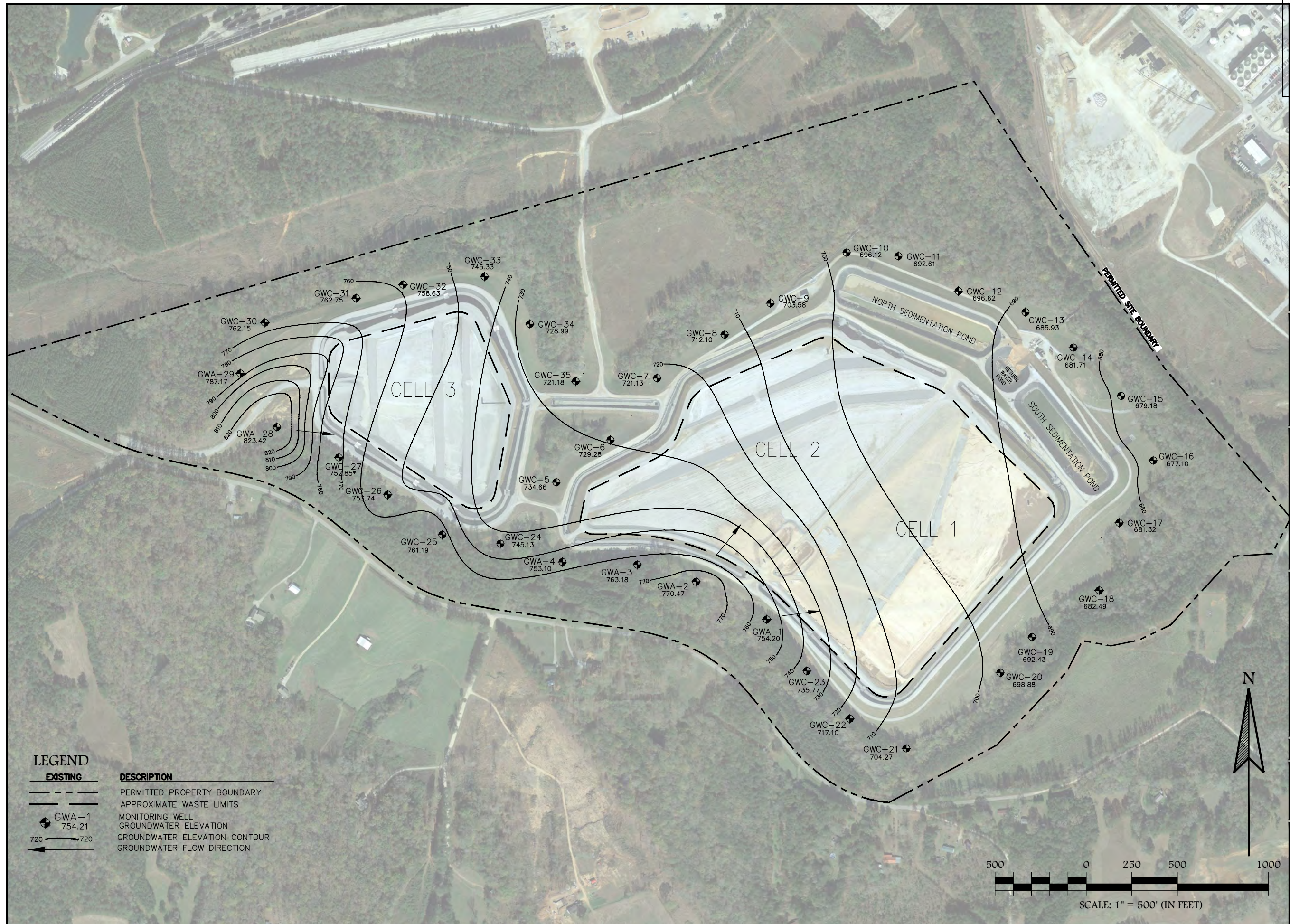
NO.	DATE	DESCRIPTION

Drawn by: MM Checked by: EP

PROJECT NUMBER:
I054-110
January 2019

SEPTEMBER 2018
POTENTIOMETRIC
SURFACE MAP

FIGURE 2



LEGEND

EXISTING	DESCRIPTION
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	MONITORING WELL
	GROUNDWATER ELEVATION
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

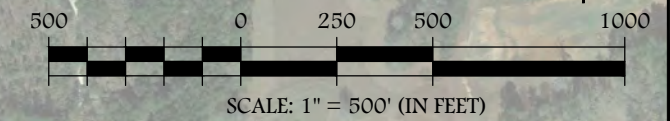
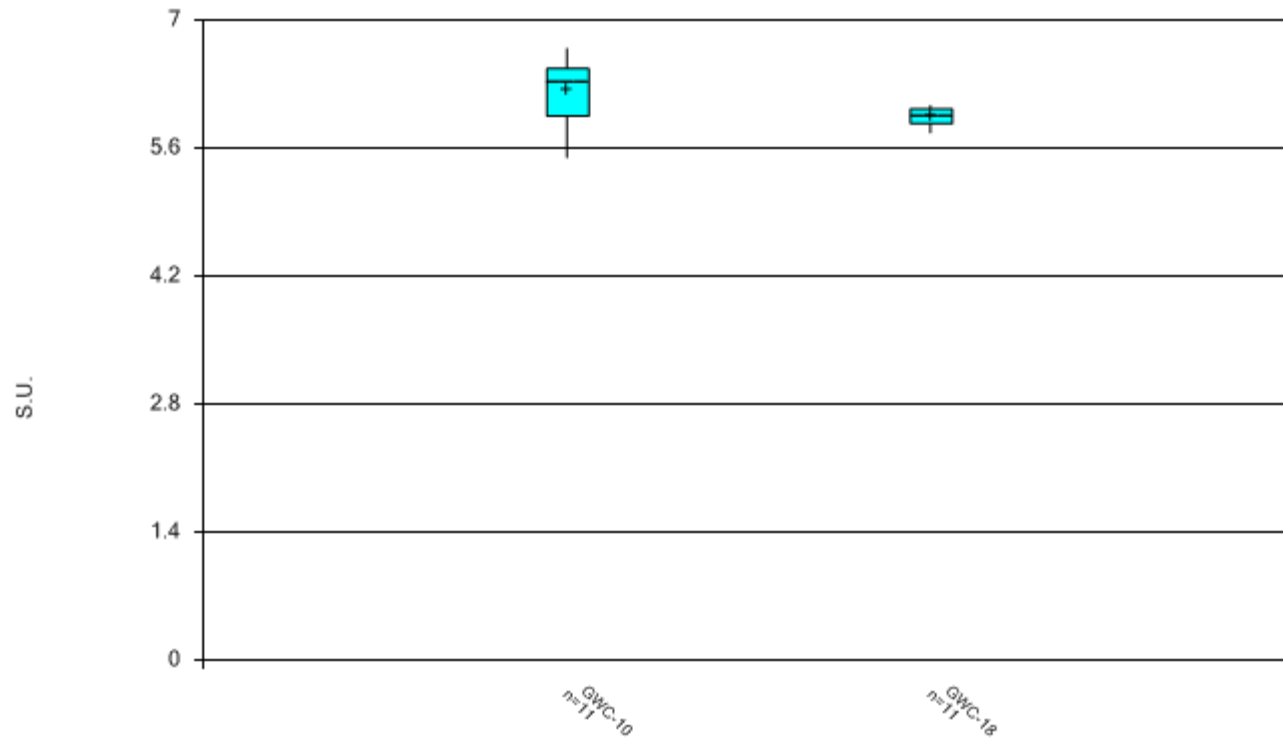
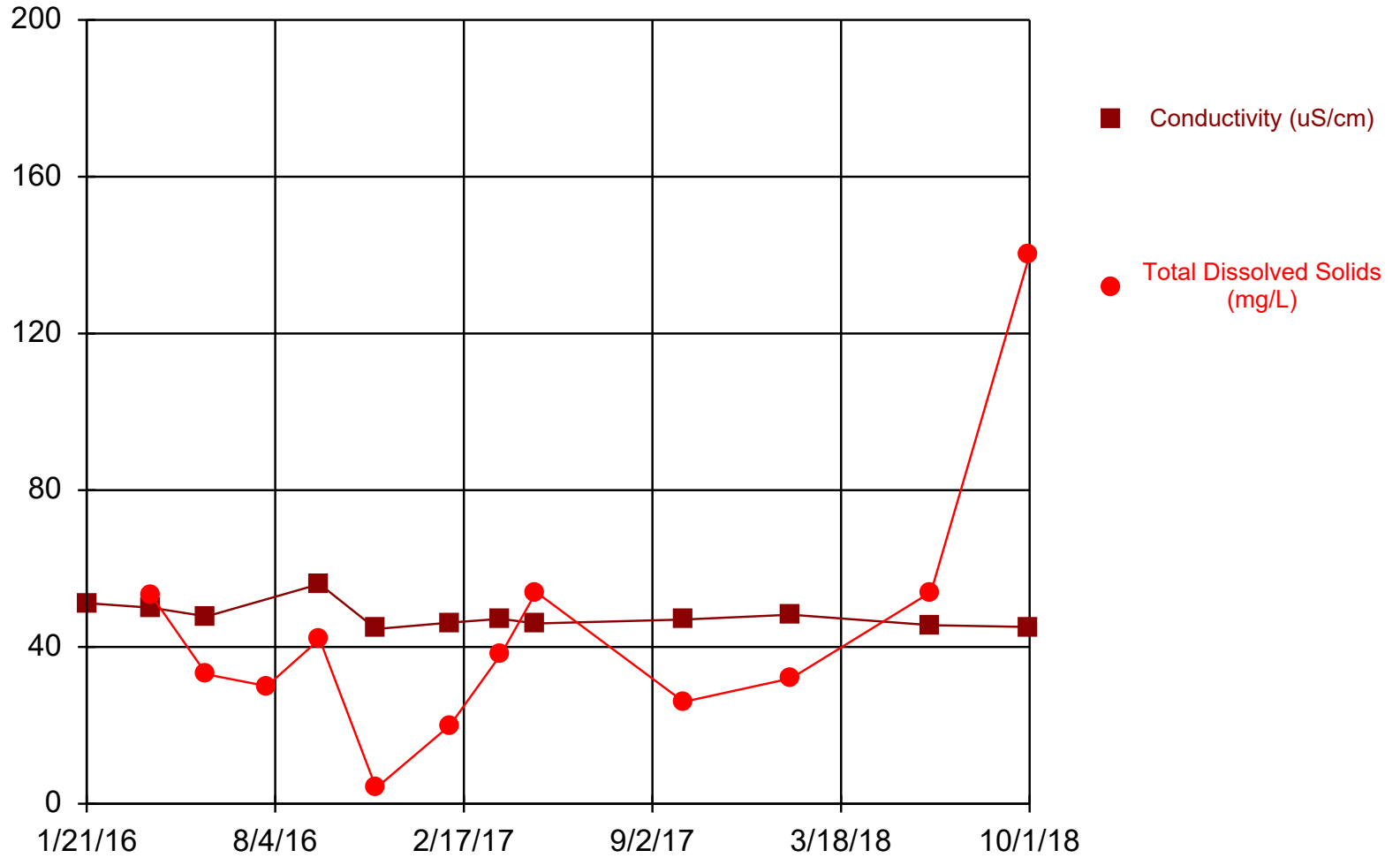


Figure 3 – Box & Whiskers Plot



Box & Whiskers Plot Analysis Run 1/24/2019 12:22 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Figure 4 - Conductivity vs Total Dissolved
Solids Time Series Plot for GWC-23



Analysis Run 12/10/2018 1:38 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

APPENDIX A

SMARTROLL™ MP Handheld Instrument



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Fax: 970-498-1598

Internet: www.in-situ.com

Support: 800-446-7488 (U.S.A. & Canada)

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The presence of the Waste Electrical and Electronic Equipment (WEEE) marking on the product indicates that the device is not to be disposed via the municipal waste collection system of any member state of the European Union.

For products under the requirement of WEEE directive, please contact your distributor or local In-Situ office for the proper decontamination information and take back program, which will facilitate the proper collection, treatment, recovery, recycling, and safe disposal of the device.

0099172 | Rev. 003

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Introduction

This manual is intended to describe the characteristics, operation, calibration, and maintenance of the SmarTROLL™ MP Instrument.

Serial Number Location

The probe serial number is on the product label affixed to the probe body.

The battery pack serial number is on a sticker affixed to the battery pack casing.

Safety

- Do not submerge the battery pack or the mobile display device in liquid.
- Ensure that the pH/ORP sensor is completely inserted into the port, so that no liquid can enter the instrument. The storage plug is not intended to be used when the instrument is deployed in water.
- Ensure that the RDO Sensor Cap is pressed firmly over the sensor lens and is flush with the instrument before submerging in liquid.
- Replace the cable if insulation or connectors are damaged.
- Make sure the probe and sensor O-rings are clean and free of damage.

General Specifications

Operating temperature	-5 to 50° C (23 to 122° F)
Storage temperature	-40 to 65° C (-40 to 149° F)
Dimensions	4.7 cm (1.85 in.) OD x 26.9 cm (10.6 in.) with restrictor installed (does not include connector)
Weight	694 g (1.53 lbs)
Wetted materials	PVC, 316 stainless steel, titanium, Acetal, Viton®, PC/PMMA
Environmental rating	IP68 with all sensors and cable attached. IP67 with sensors removed and cable detached.
Reading rate	1 reading every 10 seconds; data logged to mobile device.
Power	6 VDC from battery pack
Interface	iPhone® 4S, iPod touch® 5, or iPad® 3, 4, mini or later; iOS 6.0 or later. Bluetooth® Low Energy (BLE) radio. Purchase the iSitu™ App at the Apple® App Store.

Cable	Black polyurethane. Standard lengths available: 1.5 m, 4.6 m, 9.1 m, 30.5 m, 76.2 m (5 ft, 15 ft, 30 ft, 100 ft, 250 ft)
Warranty	2-years
Notes	Specifications are subject to change without notice. Apple, iPhone, iPod touch, and iPad are trademarks of Apple Inc. registered in U.S. and other countries. Bluetooth is a registered trademark of Bluetooth SIG, Inc. Viton is a registered trademark of DuPont Performance Elastomers L.L.C.

Sensor Specifications

Level, Depth, Pressure Sensor Specifications

Accuracy	Typical $\pm 0.1\%$ FS @ 15° C; $\pm 0.3\%$ FS max. from 0 to 50° C
Range	76 m (250 ft); absolute (non-vented)
Resolution	$\pm 0.01\%$ FS or better
Sensor Type	Fixed
Response Time	Instantaneous in thermal equilibrium
Units of Measure	Pressure: psi, kPa, bar, mbar, mmHg, inHg Level: mm, cm, m, in, ft
Methodology	Piezoresistive; ceramic

Barometric Pressure Sensor Specifications (Battery Pack)

Accuracy	± 3 mbar max.
Range	300 to 1100 mbar
Resolution	0.01 mbar
Sensor Type	Fixed
Response Time	Instantaneous in thermal equilibrium
Units of Measure	psi, kPa, bar, mbar, mmHg, inHg, Torr, atm
Methodology	Piezoresistive pressure sensor

Conductivity Sensor Specifications

Accuracy	Typical $\pm 0.5\%$ + 1 $\mu\text{S/cm}$; $\pm 1\%$ max.
Range	5 to 100,000 $\mu\text{S/cm}$
Resolution	0.1 $\mu\text{S/cm}$
Sensor Type	Fixed
Response Time	Instantaneous in thermal equilibrium
Units of Measure	Actual conductivity ($\mu\text{S/cm}$, mS/cm) Specific conductivity ($\mu\text{S/cm}$, mS/cm) Salinity (PSU) Total dissolved solids (ppt, ppm) Resistivity (Ohms-cm) Density (g/cm^3)
Methodology	Std. Methods 2510 EPA 120.1

Dissolved Oxygen RDO Fast Cap (Optical Sensor) Specifications

Accuracy	± 0.1 mg/L; ± 0.2 mg/L; $\pm 10\%$ of reading
Range	0 to 8 mg/L; 8 to 20 mg/L; 20 to 50 mg/L; Full operating range: 0 to 50 mg/L
Resolution	0.01 mg/L
Sensor Type	Fixed with replaceable RDO Fast Cap (life: 1 year typical)
Response Time	T90: <30 sec. T95: <45 sec.
Units of Measure	mg/L, % saturation, ppm
Methodology	EPA-approved In-Situ Methods 1002-8-2009 1003-8-2009 1004-8-2009

ORP Sensor Specifications

Accuracy	±5.0 mV
Range	±1400 mV
Resolution	0.1 mV
Sensor Type	Replaceable pH/ORP combo sensor
Response Time	<15 sec.
Units of Measure	mV
Methodology	Std. Methods 2580

pH Sensor Specifications

Accuracy	±0.1 pH unit from 0 to 12 pH units
Range	0 to 14 pH units
Resolution	0.01 pH unit
Sensor Type	Replaceable pH/ORP combo sensor
Response Time	<15 sec., pH 7 to pH 4
Units of Measure	pH units
Methodology	Std. Methods 4500-H+ EPA 150.2

Air Temperature Sensor Specifications (Battery Pack)

Accuracy	±2° C
Range	-20 to 70° C (-4 to 158° F)
Resolution	0.1° C
Sensor Type	Fixed
Response Time	<30 sec.
Units of Measure	Celsius, Fahrenheit
Methodology	EPA 170.1

Temperature Sensor Specifications (Probe)

Accuracy	$\pm 0.1^{\circ} \text{C}$
Range	-5 to 50° C (23 to 122° F)
Resolution	0.01° C or better
Sensor Type	Fixed
Response Time	<30 sec.; temperature sensor only
Units of Measure	Celsius, Fahrenheit
Methodology	EPA 170.1

Battery Pack Specifications

Battery Type	Four 1.5V AA lithium or alkaline batteries
Operating temperature	-5 to 50° C (23 to 122° F); 95% relative humidity, non-condensing
Storage temperature	-40 to 65° C (-40 to 149° F); 95% relative humidity, non-condensing
Dimensions & weight	9.5 x 7.6 x 5.7 cm (3.75 x 3 x 2.25 in.) (H x D x W). Weight: 165 g (5.8 oz)
Materials	PC/ABS
Environmental rating	IP67 with battery cover closed
Output options	BLE radio
Battery type	4 AA Lithium or Alkaline
Warranty on battery pack	1-year
Warranty on cable	1-year

Instrument Overview

Instrument Description

The smarTROLL MP Handheld Instrument is comprised of a mobile display, Battery Pack, cable, and multiparameter water quality probe. The optical Rugged Dissolved Oxygen (RDO[®]), conductivity, pressure, and temperature sensors are integrated into the probe. The pH/ORP and the RDO Sensor Cap are replaceable.

System Components

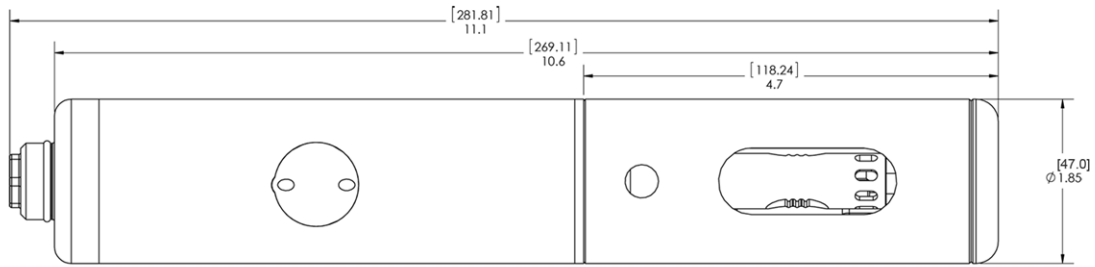
The system includes the following components.

- Integrated sensors: RDO, conductivity, pressure, and temperature
- Plug-in pH/ORP sensor
- RDO Fast Sensor Cap
- Stainless steel restrictor
- Calibration and storage cup
- Battery pack and cable

Accessories purchased separately

- Replacement RDO Fast Sensor Cap
- Replacement pH/ORP sensor
- Calibration Kit (includes calibration cup, 3 sponge wafers, vented cap, and storage cap)
- Cable 1.5 m (5 ft), 4.6 m (15 ft), 9.1 m (30 ft), 30.5 m (100 ft), 76.2 m (250 ft).
- Maintenance kit
- Replacement battery pack
- Storage/Calibration cup
- Low-Flow kit
- iPod[®] Touch (for instrument control and data display)
- iTunes[®] account for transferring data files as an alternate to email

Probe Dimensions with Restrictor On



Total length with connector	281.81 mm (11.1 in.)
Total length without connector	269.11 mm (10.6 in.)
Restrictor length	118.24 mm (4.7 in.)
Diameter	47 mm (1.85 in.)

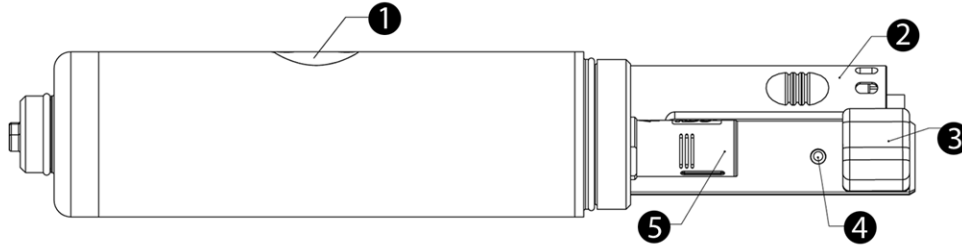
Probe Dimensions with Restrictor Off



Sensor length | 81.09 mm (3.2 in.)

Sensors

Sensors include optical RDO (Rugged Dissolved Oxygen), pH/ORP, conductivity, pressure, and temperature.



1	Pressure sensor 76 m (250 ft)
2	pH/ORP sensor
3	Conductivity sensor
4	Temperature sensor
5	RDO Sensor

Probe Setup

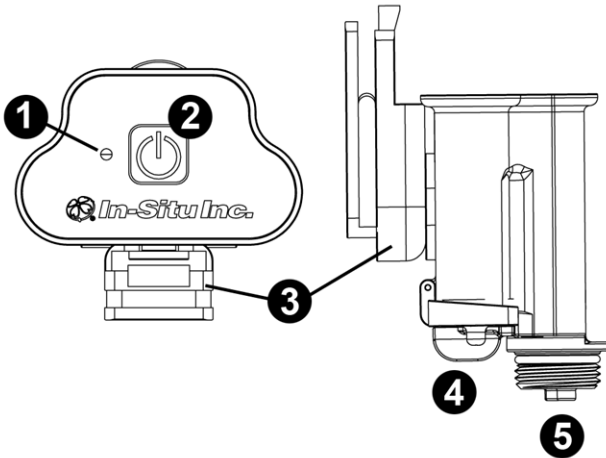
The probe is shipped with a storage plug and protective dust caps in place.



- | | |
|---|---|
| 1 | Dust cap protector on the RDO Sensor. (Install the RDO Cap before deploying the instrument.) |
| 2 | pH/ORP storage plug. (Remove the storage plug and install the pH/ORP sensor before deploying the instrument.) |

Install the Batteries

The 4 AA batteries that are shipped with the battery pack are likely to last for 80 hours of continuous use.



- | | |
|---|---------------------------|
| 1 | Power indicator |
| 2 | On/Off button |
| 3 | Belt clip |
| 4 | Battery compartment latch |
| 5 | Cable connection |

-
1. Twist the cable connector counterclockwise to remove the cable from the battery pack.
 2. Slide the lever on the battery compartment to release the cover.

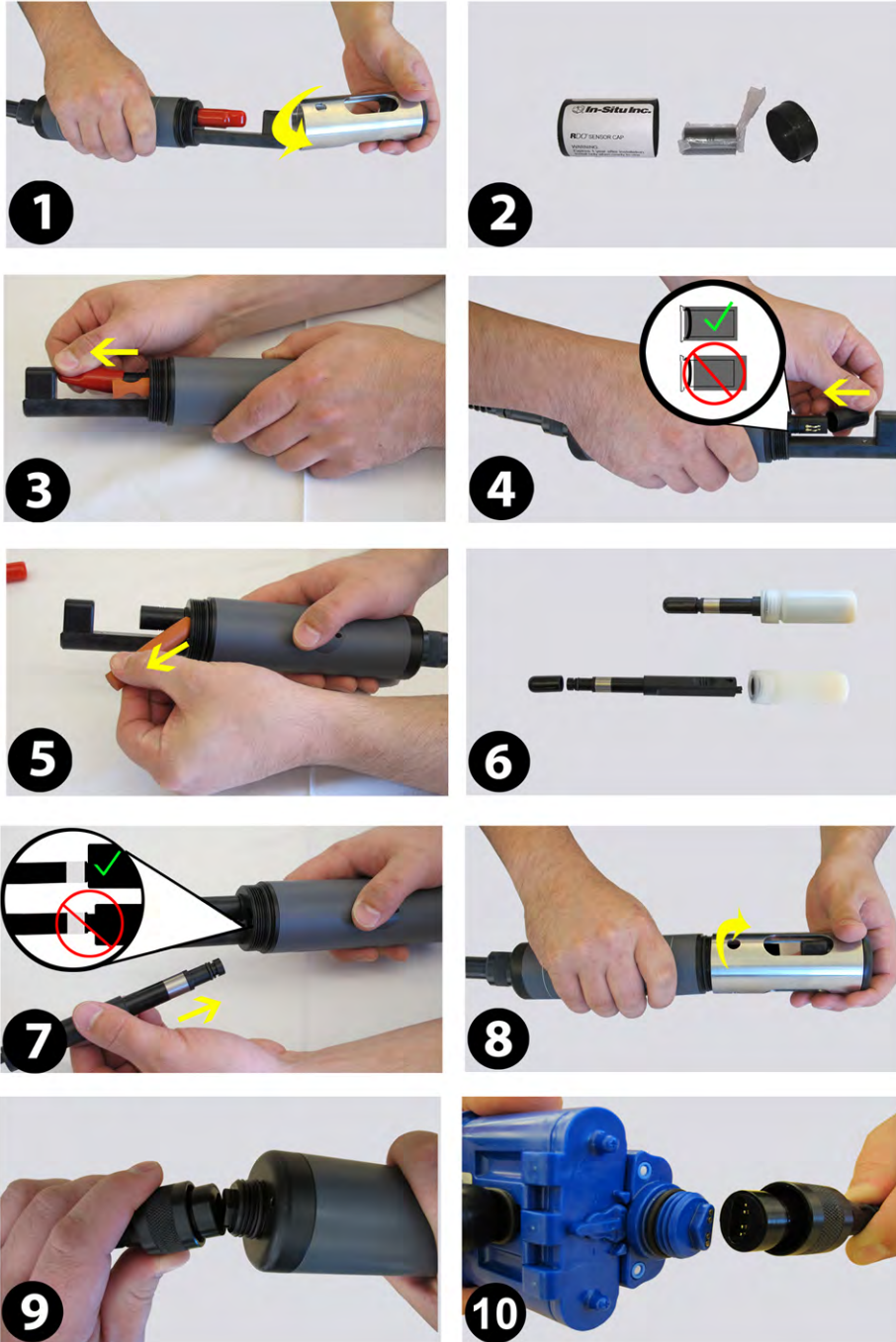


3. Install the 4 AA batteries according to the +/- indicators engraved on the outside cover.



4. Close the cover and slide the lever to lock the compartment.

Installing the Sensors



1. Twist the restrictor off the probe.
2. Locate the RDO Sensor Cap container and remove the cap.
3. Remove the dust cap from the RDO Sensor.
4. Align the flat edge of the RDO Sensor with the slotted edge of the RDO Cap and press the cap into position. Push until the cap is firmly in place.



Important: Avoid touching the sensor lens and the sensing material on the top of the cap.

5. Remove the orange plug from the pH/ORP port.
6. Remove the pH/ORP sensor from the storage bottle. Keep the bottle for future sensor storage.
7. Use the alignment marks to properly align the pH/ORP sensor with the port connection, and press firmly into place. Push until the sensor is completely inserted into the port.
8. Twist the restrictor onto the probe.
9. Align the pins on the cable with the pins on the probe, then twist the outer portion of the connector until the connection is secure.
10. Align the pins on the cable with the pins on the battery pack, then twist the outer portion of the connector until the connection is secure.



Important: The RDO Sensor Cap and pH/ORP sensor must be installed firmly in place to prevent water from entering the instrument.

iSitu Overview

About the iSitu App

The iSitu App is the user interface and control application for In-Situ handheld water quality instruments. You can use iSitu on the Apple iPod Touch, and iPhone for up to five devices per purchased license.

iSitu allows you to accomplish the following tasks.

- View live readings that update every 10 seconds.
- Change parameters and units.
- Record data.
- Email data in spreadsheet format.
- Transfer data from mobile device to a computer.
- Organize data by Site location.
- Calibrate Sensors and View Reports
- Conduct Low-Flow Pump Testing (Additional purchase is required.)

Estimated iPod Battery Life

The table below shows the estimated battery life for the iPod. The values are dependent on the number of readings taken and the brightness setting on the display. To change brightness settings, see **Settings > Brightness & Wallpaper** on the iPod.

BRIGHTNESS					NUMBER OF READINGS	BATTERY TIME (HOURS)
MIN	1/4	1/2**	3/4	FULL		
X					2,500	6.9
	X				1,950	5.4
		X			1,700	4.7
			X		1,500	4.2
				X	1,050	3.3

*Values provided assume location services and WiFi enabled. Disabling these features can provide an additional 0.5 to 1 hour of life.

**Default

Connect the Instrument to the iSitu App

1. Make sure that the cable is connected to the instrument and the battery pack.
2. Press the power button on the battery pack.
3. On the mobile device, tap **Settings**.



4. Turn Bluetooth on.



5. Press the Home button (round button on the mobile device frame) to show all apps.

6. Tap the iSitu icon  to open the iSitu App.

7. If you are prompted to allow iSitu to use your current locations, tap **OK**.

✓ If you allow iSitu to use your current locations it will enable the mapping feature for site setup. If you select **Don't Allow**, you can change the setting later. **See Settings > Privacy Settings > Location Services.**



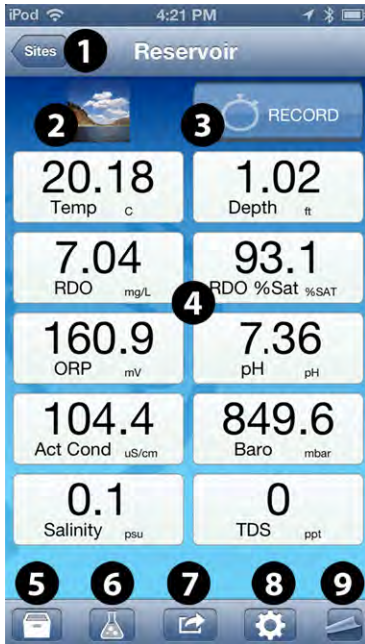
8. Live readings appear on screen.



Live Readings Screen

The Live Readings screen is also referred to as the Home screen. If you touch the **Home** icon within the app you will return here.

✓ Live readings update every 10 seconds.



1	Sites button - setup sites, select another site
2	Site photo (optional)
3	Record/Stop button - records sensor readings every 10 seconds
4	Sensor readings - updated every 10 seconds
5	Data files - access files stored on the mobile device
6	Sensor calibration
7	View or email data
8	Access Low-Flow (additional purchase required)
9	Help

Change Parameters and Units

1. From the **Home** screen, tap any parameter field.



2. Swipe the left side of the parameter pick wheel to find the appropriate parameter.
3. Swipe the right side of the parameter pick wheel to select the appropriate unit.
4. Tap the **Set** button to set the parameter and unit selection.

iSitu Sites

About Sites

A site represents the physical location at which the instrument collects data. For example, you can create a site to represent a lake, gauging station, well, tank, number, or nearby landmark.

If you do not set up a site, your data will be associated with **Default Site**. The site name is displayed at the top of the **Live Readings** screen.

Tap the **Sites** button to select or edit an existing site, or to create a new site.

Create a New Site

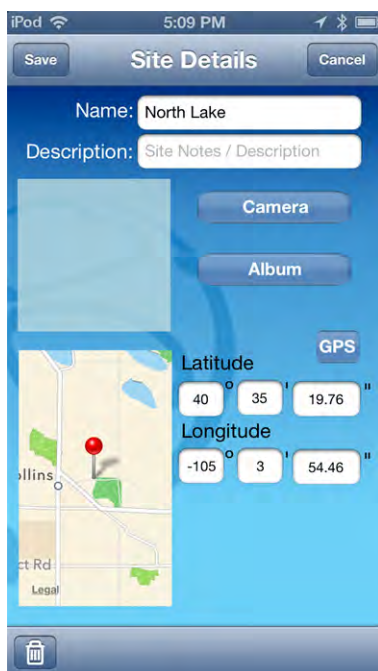
1. From the **Live Readings** screen, tap the **Sites** button.



2. A list of existing sites appears.



3. Tap the **New Site** button. The **Site Details** screen appears.



4. Tap the **Name** field. Type the name for the new site and tap **Return**.
5. To add a description, tap the **Description** field. Type a description and tap **Return**. A description is optional.
6. To take a site photo, tap the **Camera** button, tap the camera icon to take a new photo, tap the **Use** button. A site photo is optional.
7. To select an existing photo, tap the **Album** button, tap **Camera Roll**, tap an existing photo.
8. To locate your site with Maps or GPS, tap the **GPS** button and your current location is automatically associated with the site. You can also enter GPS coordinates, or tap and hold on the map to select a location.



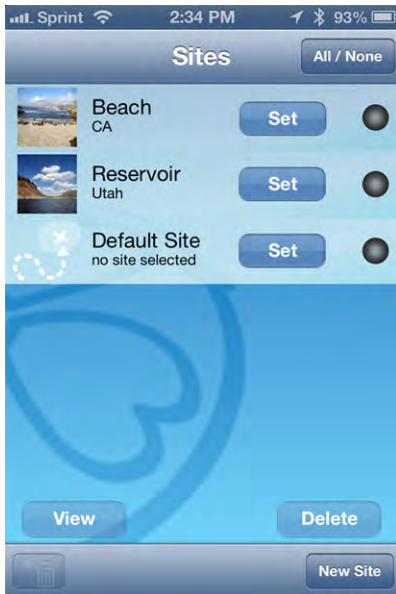
Location Services must be turned on for an accurate location to display on the map. See **Settings > Location and Security**.

9. Tap the **Save** button.
10. Tap the **Set** button next to the site you created. Now you are ready to record data associated with the selected site.

Select a Site

After a site has been created, you can select it to record data that will be associated with that site.

1. From the Live Readings screen, tap the **Sites** button.
2. Locate the site with which you want to associate your data.



3. Tap the **Set** button. The site will appear on the Live Readings screen and recorded data will be associated with the selected site.

Edit a Site

1. Tap the **Sites** button.
2. Locate the site you intend to edit.
3. Tap the **circle** next to the **Select** button for the site.
4. Tap the **View** button, and make changes to the site information.
5. Tap the **Save** button.

Delete a Site

1. Tap the **Sites** button.
2. Locate the site you intend to delete.
3. Tap the **circle** associated with the site.
4. Tap the **Delete** button.



This procedure sends the site to the trash where you can choose to completely delete it, or restore the site. You cannot delete the default site.

Restore a Site

1. It is possible to restore a deleted site.
2. From the **Home** screen, tap the **Sites** button.
3. Tap the **Restore From Garbage Can** icon.



4. Tap the site you intend to restore.
5. Tap the **Restore** button.

iSitu Data

About Data

iSitu allows you to view real-time readings, record readings in ten-second intervals, email data, store data to the mobile device, and transfer data from the mobile device to a PC.

Record Data

1. Tap the **Record** button on the **Live Readings** screen to record data. The number on the stopwatch icon represents how many 10-second data intervals have transpired.



2. To stop recording, tap **Stop**.
3. Now you can email the data or download it to a computer.

View an Individual Reading

Recorded data is stored on the Apple device in a comma-separated value (CSV) file and can be viewed in a spreadsheet format after the file has been emailed from the mobile device, or transferred to a computer via iTunes.

1. To view an individual reading, tap the **Action** icon.



2. Tap **View Last Reading**.



3. The most recent data in the last ten-second interval appears. Tap the **Home** icon to return to the **Live Readings** screen or tap the **Envelope** icon to email the data.

View and Email Data from the Selected Site

After you have recorded data, you can email the data as a CSV file that can be opened with common spreadsheet software. Make sure the email feature is enabled on the mobile device.



See **Settings > Mail, Contacts, Calendars > Add Account**. You must also have connection to WiFi or cell phone service if you are using an iPhone®. See **Settings > Wi-Fi**.

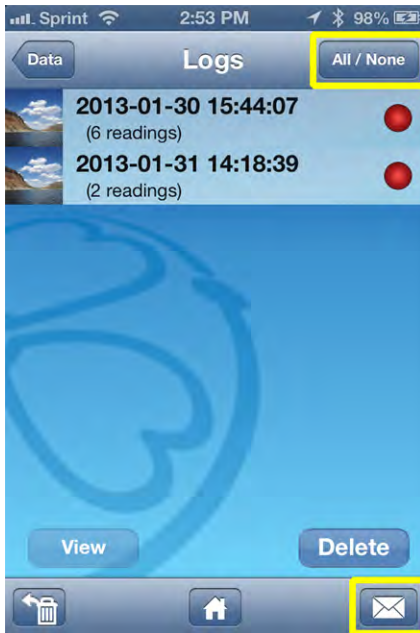
1. Tap the **Action** icon.



2. Tap **View Log List**. This shows a list for only the selected site.



3. To select all logs in the list, tap the **All/None** button, or to select individual logs, tap them separately.



4. Tap the **Envelope** icon.
5. An email form appears with the logs that were selected attached.



6. Enter an email address in the **To:** field.
7. Tap the **Send** button.

✓ You can also transfer data to a computer using iTunes.

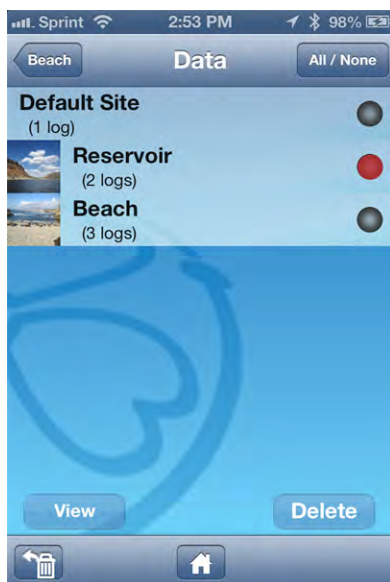
View, Email, or Delete Data from Any Site

After you have recorded data, you can email the data as a CSV file that can be opened with common spreadsheet software. Make sure the email feature is enabled on the mobile device. See **Settings > Mail, Contacts, Calendars > Add Account**. You must also have connection to WiFi. See **Settings > Wi-Fi**.

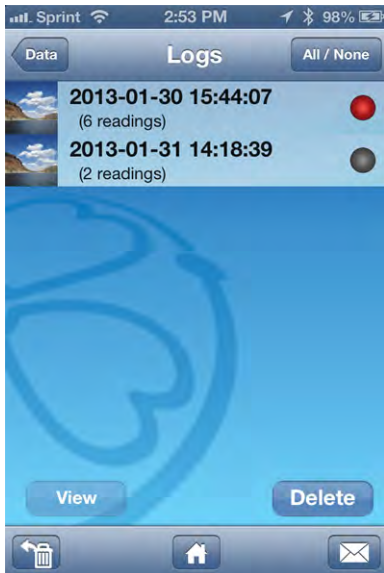
1. Tap the **Data** icon.



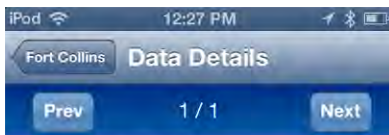
2. The Data screen displays a list of sites and the number of data logs within each site. Tap the site that contains the data you want to view, email or delete. The selection circle turns red and the **View**, and **Delete**, buttons become active.



3. Tap the **View** button.
4. The list of logs associated with that site appears. Tap the log you want to view. The selection circle turns red and the **View** and **Delete** buttons become active. The **Envelope** icon also becomes active. You can select any of these options.



5. Tap the **View** button.
6. The list of readings within the log appears. Tap the reading you want to view. The selection circle turns red and the **View** button becomes active.
7. Tap the **View** button. The data for an individual reading appears.



Fort Collins

at 2013-06-03 12:27:18

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>	<i>Quality</i>
Baro	839.5	mbar	OK: Normal
Temp	25.28	C	OK: Normal
RDO	6.48	mg/L	OK: Normal
RDO Sat	95.7	%	OK: Normal
Air Temp	27.40	C	OK: Normal



Emailing Data From Different Screens in iSitu

Emailing from the Data screen

Select one or more sites and email all logs associated with the selected sites.

Emailing from the Logs screen

Select one or more logs (from a single site) and email the selected logs.

Emailing from the Readings screen

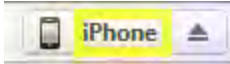
Select one or more readings (from a single log) and email them as one file. The file name will be appended with the word "reading."

Emailing from the Data Details screen

Emailing from the Data Details view will email all readings in that log

Transfer Data to a Computer

1. Connect the mobile device to a computer with iTunes installed.
2. Click on the Apple device icon next to the eject button.



3. Click the word **Apps** near the top of the screen.
4. Scroll to the bottom of the screen and click on **iSitu**.
5. Click on a file and drag it to your desktop.



You can also email data to your computer.

Delete all Logs by Site

1. Tap the **Data** icon.



2. Tap the **All/None** button, or tap an individual site. The selection circle turns red when a site is selected.
3. Tap the **Delete** button. All logs associated with the site will be deleted.



This procedure sends the logs to the trash where you can choose to completely delete them or restore the logs.

Restore Data

It is possible to restore deleted logs.

-
1. Tap the **Data** icon.
 2. Tap the **Restore from Garbage Can** icon.




3. The contents of the Trash Can are displayed.
4. Tap the **All/None** button, or tap the individual logs you want to restore.
5. Tap the **Restore** button.

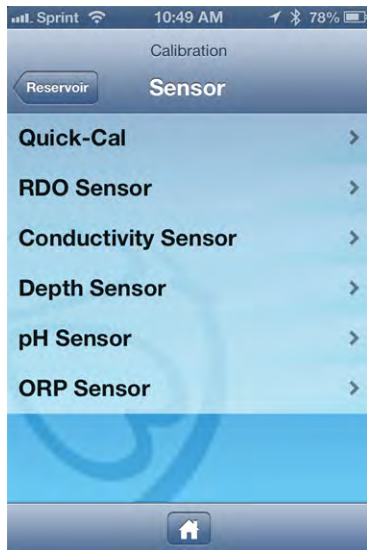


If you want to permanently delete data from the Trash Can, tap the **Delete** button.


iSitu Sensor Calibration

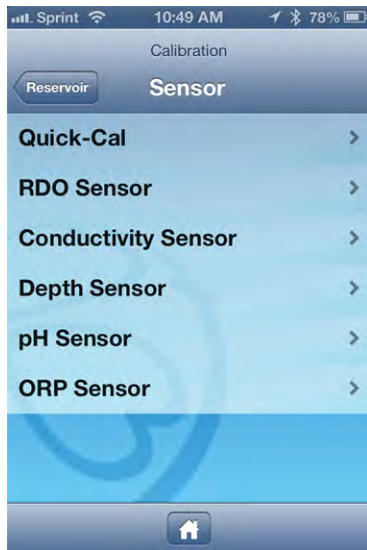
About Calibration

Tap the **Calibration** icon  in the iSitu App to access a list of sensors that are available for calibration.



Calibrate Multiple Sensors with Quick-Cal Solution

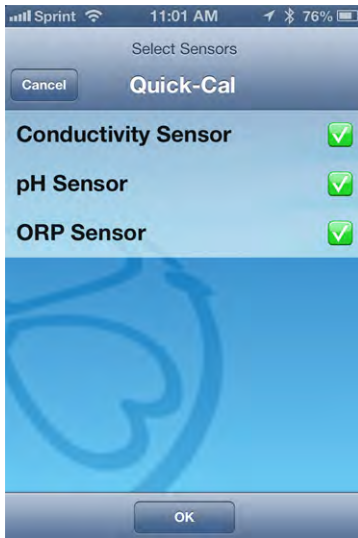
1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **Quick-Cal**.



3. The conductivity, pH, and ORP sensors are automatically selected. Tap the green check mark next to a sensor if you want to exclude it from the quick calibration.



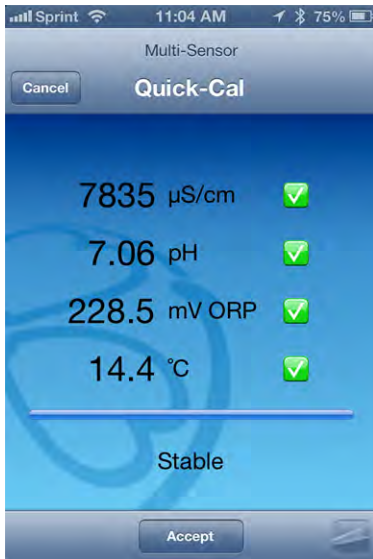
The dissolved oxygen sensor cannot be calibrated using the Quick-Cal procedure.



4. Tap **OK**.
5. Fill the calibration cup to the fill line with Quick-Cal solution.
6. Place the instrument into the calibration cup, and tap **Start**.




7. When the calibration is stable, tap the **Accept** button.

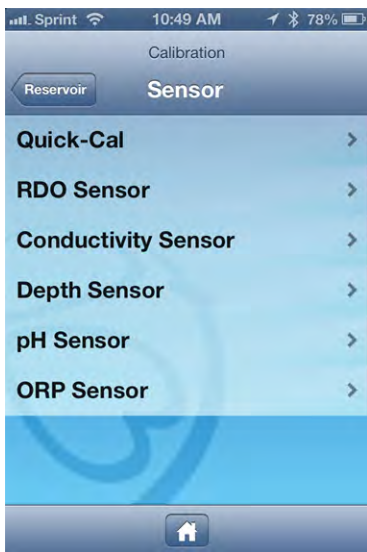


8. Rinse the sensors with DI water.

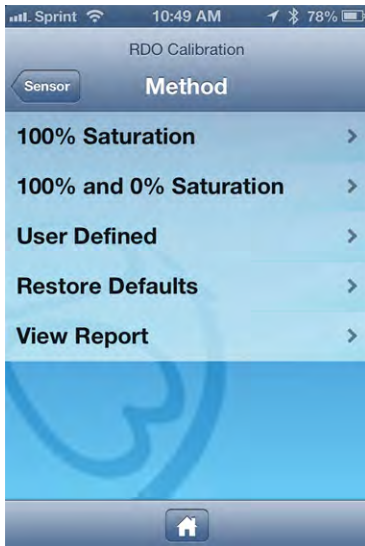
Calibrate the Rugged Dissolved Oxygen Sensor

The RDO sensor requires very little maintenance. The zero oxygen calibration is optional.

1. Tap the **Calibration** icon .
2. Tap **RDO Sensor**.



3. Select the method by which you intend to calibrate the sensor. This example demonstrates a two-point calibration. Tap **100% and 0% Saturation**.

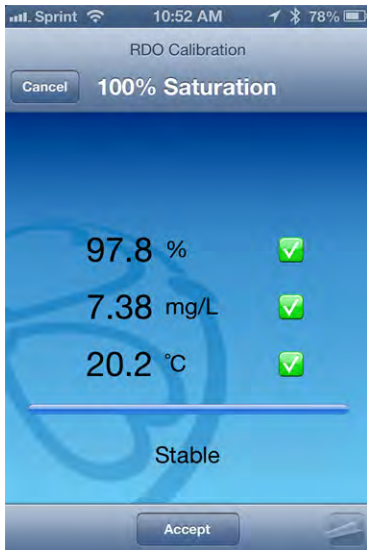


4. Place a water-saturated sponge in the bottom of the calibration cup. Place the instrument into the calibration cup, and tap **Start**.

✓ The calibration cup must be vented to barometric pressure. If you are using the calibration cup pictured below, make sure the vented cap is installed. If you are using the twist-on storage cup, set the instrument in the cup, but do not twist it into place.



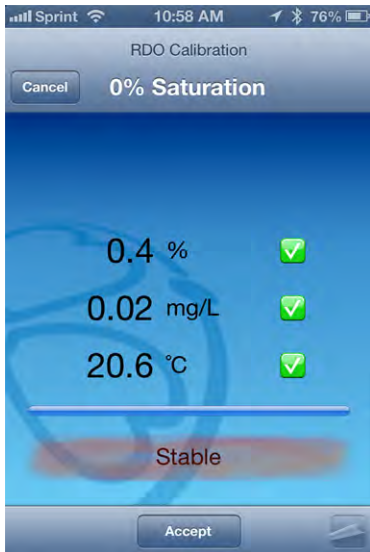
5. When the calibration is stable, tap the **Accept** button.



6. Remove the sponge and add fresh sodium sulfite solution to the fill line. Place the instrument into the calibration cup, and tap **Start**.




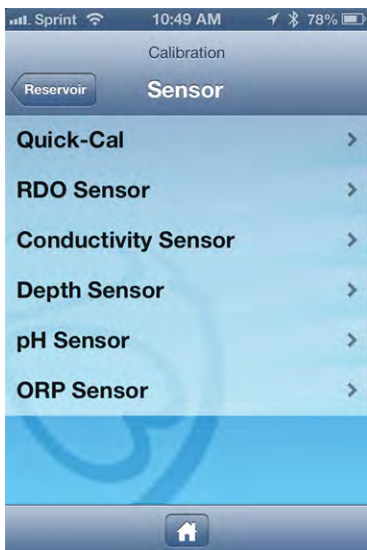
7. When the calibration is stable, tap the **Accept** button.



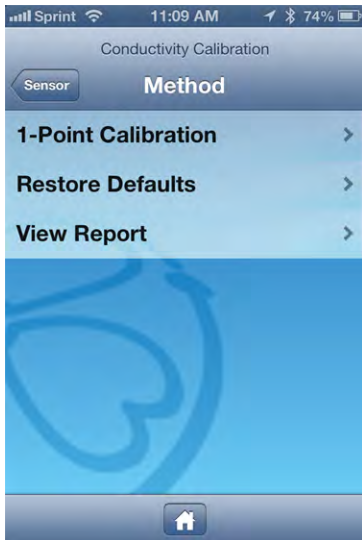
8. To view the calibration report, tap **View Report**.
9. Rinse the sensors thoroughly with DI water.

Calibrate the Conductivity Sensor

1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **Conductivity Sensor**.



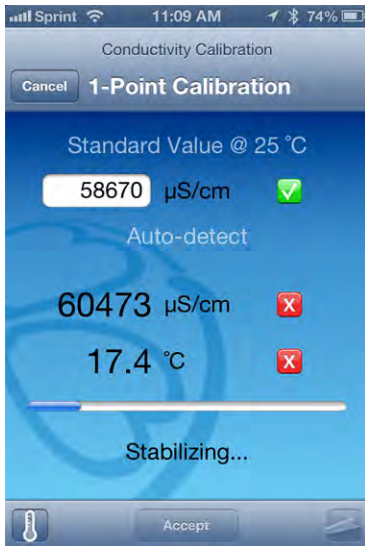
3. Tap 1-Point Calibration



4. Make sure the vented cap is installed on the calibration cup. Fill the cup to the fill line with calibration standard. Place the instrument into the calibration cup, and tap **Start**.



5. iSitu automatically detects the calibration standard.




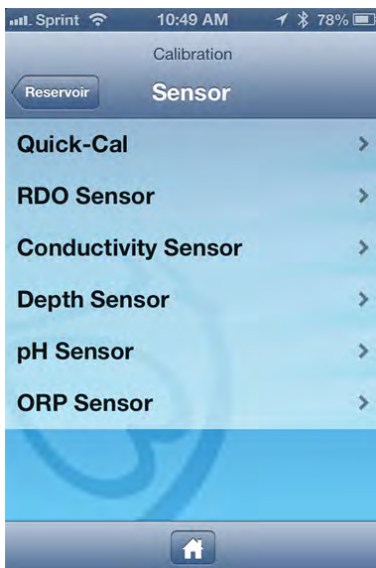
✓ If your calibration standard references 20° C, tap the **Thermometer** icon and change the reference temperature.

6. Once the calibration is stable, tap the **Accept** button.
7. To view the calibration report, tap **View Report**.
8. Rinse the sensors with DI water.

Calibrate the Depth Sensor

Zero in Air

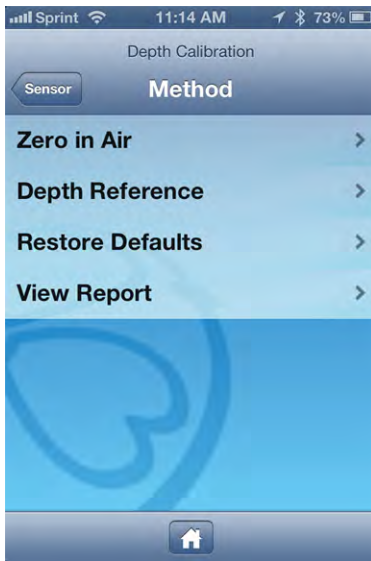
1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **Depth Sensor**.



3. Tap **Zero in Air**.




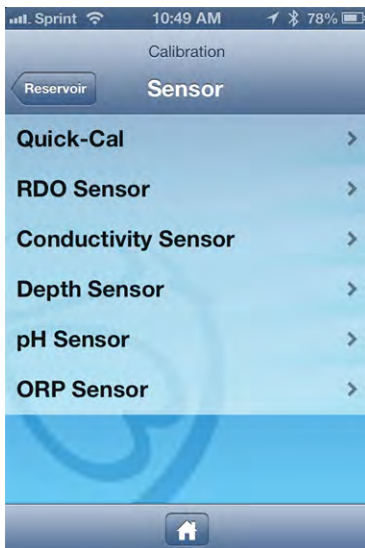
Do not perform a "Zero in Air" calibration if a Depth reference is already set because it will result in a faulty calibration. To clear a Depth reference, tap **Restore Defaults**.



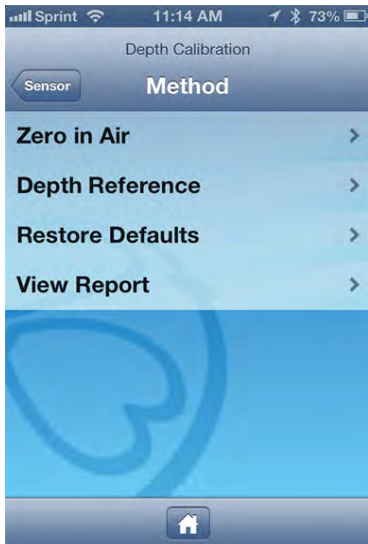
4. Ensure that the pressure sensor is exposed to air and is not submerged in liquid.
5. Tap the **Start** button.
6. When the calibration is stable, tap the **Accept** button.

Setting the Depth Reference

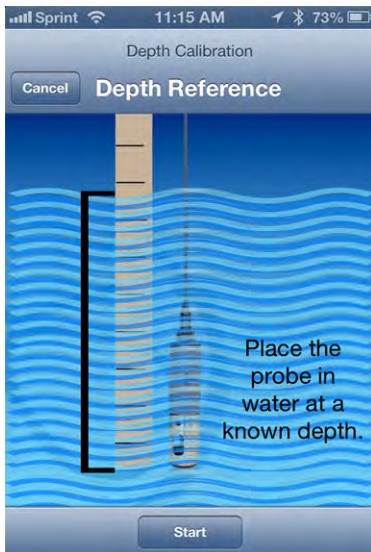
1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **Depth Sensor**.



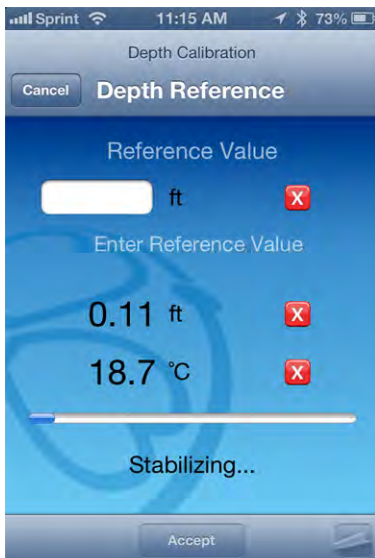
3. Tap **Depth Reference**.



4. Place the instrument in the water at a known depth, and tap the **Start** button.



5. Tap the **Reference Value** field and enter the value of the known depth reference.





A depth reference applies an offset equal to the distance from the pressure sensor to a desired location, such as the bottom of the probe, so that the depth reading is reported from the desired location, rather than from the location of the pressure sensor.




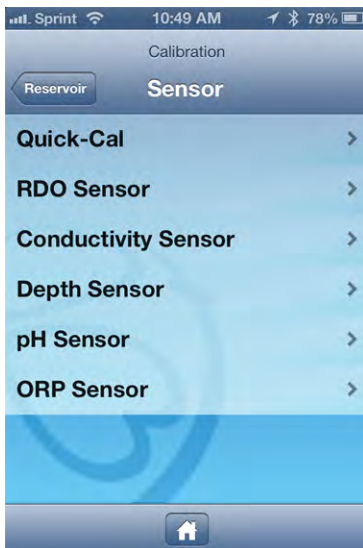
1 | Pressure sensor

2 | Example of a Depth reference setting

6. When the calibration is stable, tap the **Accept** button.

Calibrate the pH Sensor

1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **pH Sensor**.



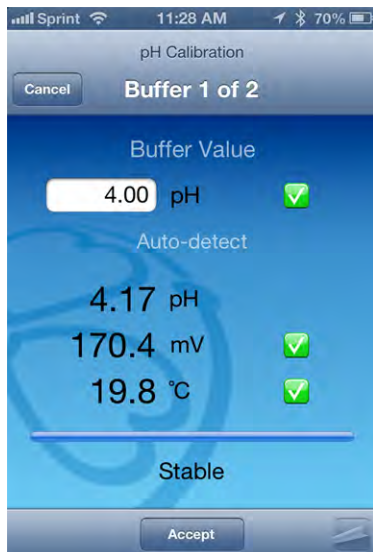
3. Select the method by which to calibrate the sensor. This example demonstrates a two-point calibration. Tap **2-Point Calibration**.



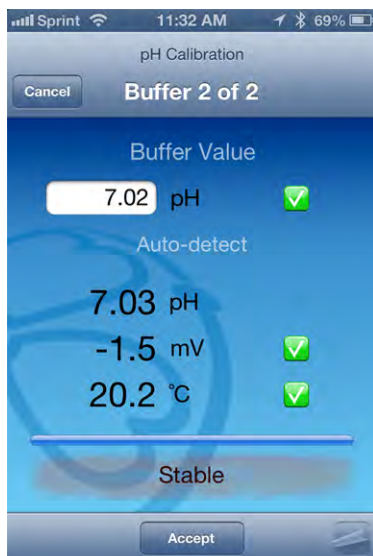
4. Make sure the vented cap is installed on the calibration cup. Fill the cup to the fill line with the first calibration buffer. Place the instrument into the calibration cup, and tap **Start**.



5. When the calibration is stable, tap the **Accept** button.




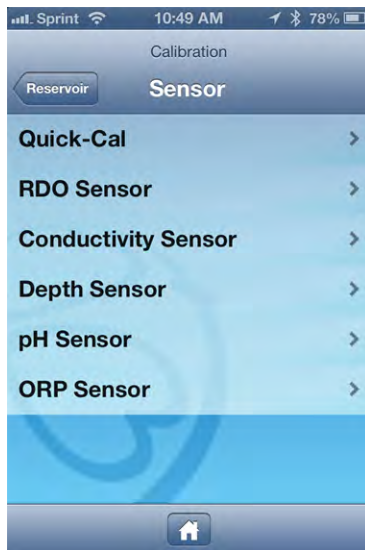
6. Fill the cup to the fill line with the second calibration buffer. Place the instrument into the calibration cup, and tap **Start**.
7. When the calibration is stable, tap the **Accept** button.



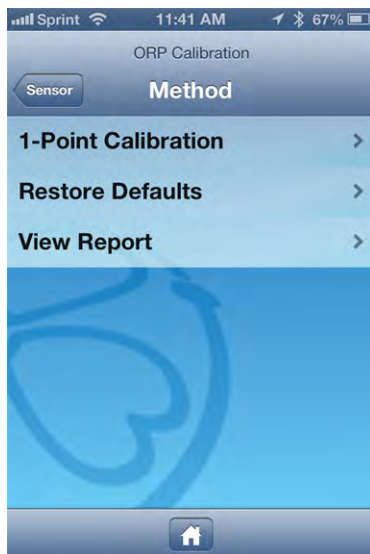
8. To view the calibration report, tap **View Report**.

Calibrate the ORP Sensor

1. Tap the **Calibration** icon  to access a list of sensors that are available for calibration.
2. Tap **ORP Sensor**.



3. Tap **1-Point Calibration**



4. Make sure the vented cap is installed on the calibration cup. Fill the cup to the fill line with calibration standard. Place the instrument into the calibration cup, and tap **Start**.



5. When the calibration is stable, tap the **Accept** button.
6. To view the calibration report, tap **View Report**.

Low-Flow Pump Testing

Low-Flow Sampling


Low-Flow sampling allows you to automate the collection of well and pumping information, monitor and record the stabilization of key water quality parameters, and automatically generate sample reports that conform to federal and regional regulations.

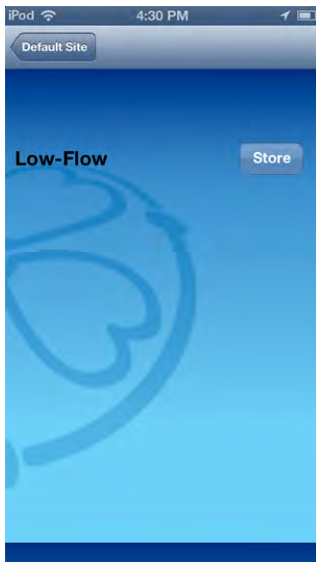
You can set up a template in the office and email it to a technician, or the setup can be done entirely in the field.

You need the following equipment.

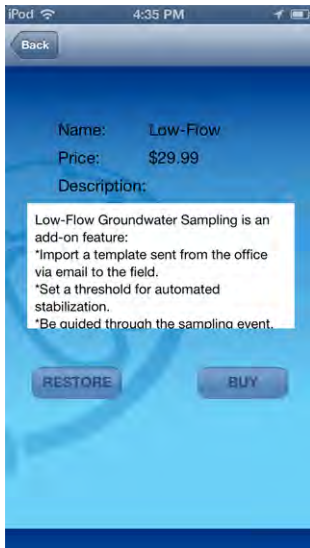
- Pump and tubing
- Flow cell, fittings, and base plate or stake
- Instrument and communication device
- Mobile device or PC
- Optional turbidity meter

Purchase the Low-Flow App

1. Tap the **Gear** icon .
2. Tap the **Store** button.



3. Tap the **Buy** button. You are asked to confirm your purchase. Tap the **Buy** button again.



4. You are prompted to enter your iTunes information. The Low-Flow App will be accessible the next time you tap the **Gear** icon.

Create a Low-Flow Template from the Desktop

You can create a Low-Flow template from a desktop or laptop computer and email it to technicians in the field.

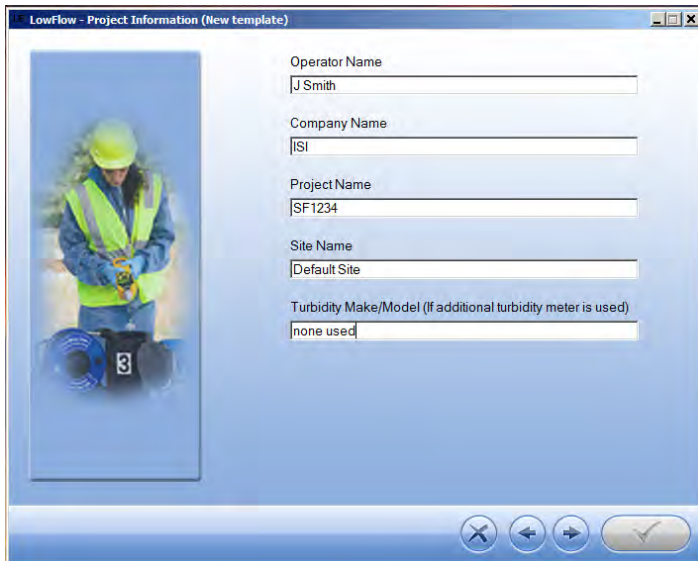


This Windows® software application is designed to work in conjunction with the VuSitu Mobile App and the SMARTROLL Multiparameter Handheld or Aqua TROLL 600 Multiparameter Sonde.

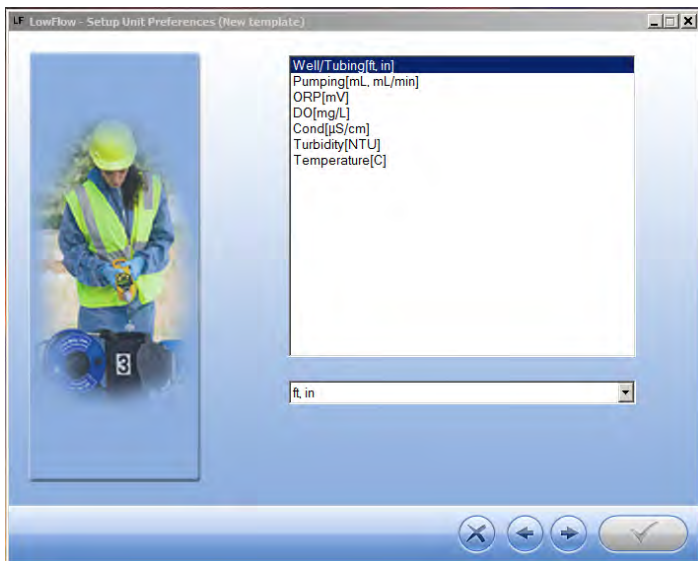
1. Open the Low-Flow software from within Win-Situ 5. When you are asked if you would like to connect to the device, click **No**.
2. Click the **Tools** menu and select **LowFlow Setup**.



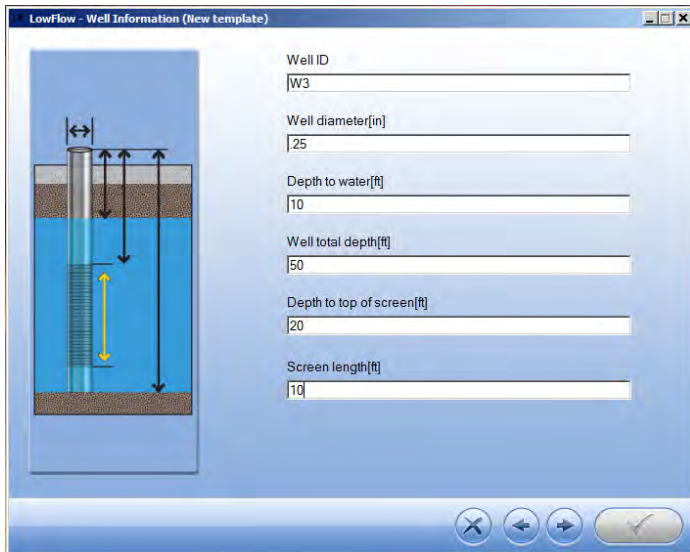
3. Click **Create New Template**, and click the **right arrow** button. The **Project** screen appears.



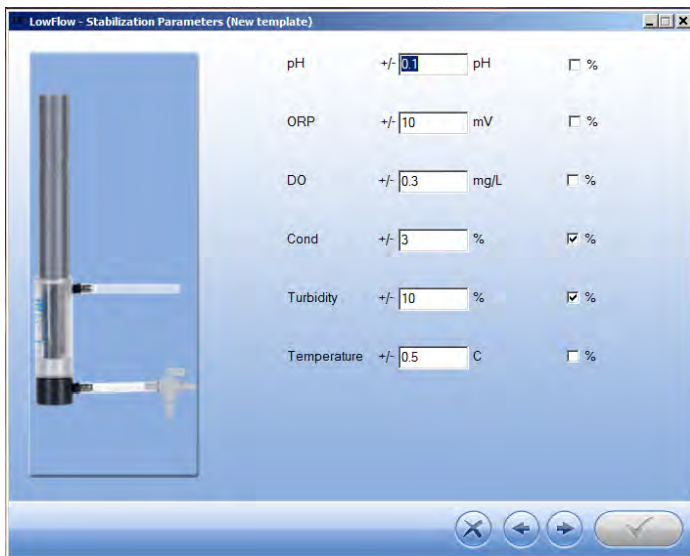
4. Enter project information and click the **right arrow** button. The **Units** screen appears.



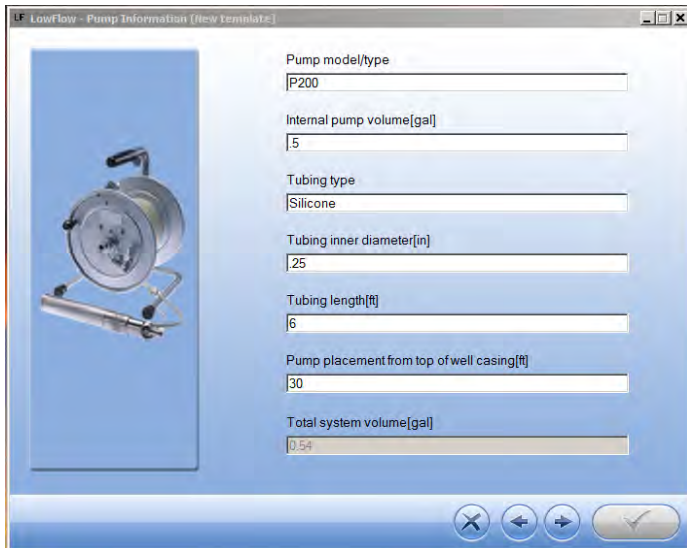
5. If necessary, select a parameter and then click the drop-down box to select units.
6. Click the **right arrow** button. The **Well Information** screen appears.



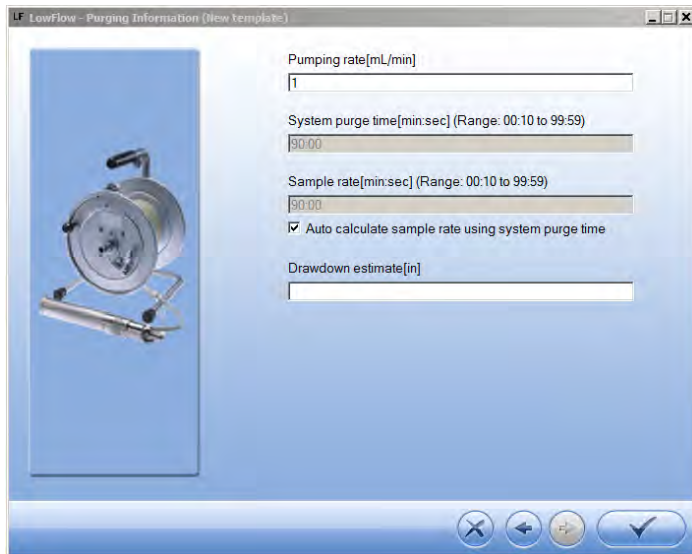
7. When you click on a field, the corresponding area of the well diagram is highlighted. Enter the well information.
8. Click the **right arrow** button. The **Stabilization Parameters** screen appears.



9. The default stabilization criteria is shown. A selected percentage checkbox indicates that the stabilization criterion for the parameter is based on percentage rather than an absolute value.
10. Edit the information if necessary, and click the **right arrow** button.



11. Enter the pump information. The total system volume is calculated using the internal pump volume, the tubing inner diameter, and the tubing length.
12. Click the **right arrow** button. The **Purging Information** screen appears.



13. Enter the pumping rate you intend to use during the test.
14. Enter the sampling rate you intend to use, or select **Auto calculate sample rate using system purge time** if you want the software to assign a sample rate.
15. Enter an estimate of the drawdown you expect during the testing.
16. Click the **check mark**. You can save the template with the default name or enter a different name.

Email Low-Flow Template to a Mobile Device

1. Low-Flow templates are by default saved to your computer in **My Documents/LowFlow Templates**.
2. One way to email a template is to open the **LowFlow Templates** folder and right-click on the template you want to email.
3. Select **Send to** and select **Mail recipient**. A new email will open with the template attached.
4. Send the email to a device that has email enabled.

Load the Template into the iSitu App

1. Open the email on the mobile device.
2. Scroll to the attached template.




3. Tap and hold the attachment. A pop-up menu appears.



4. Tap the **iSitu** icon. The iSitu app opens with the template loaded. If you would like to save the template to the device, tap the **Save** button.

✓ You can swipe through the screens and edit information before you save changes to the template.

Set up a Low Flow Test From a Template

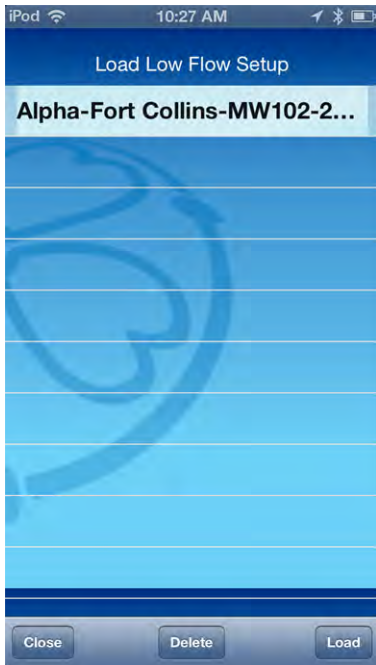
1. Tap the **Gear** icon  to access the Low-Flow section of the App.



2. The **Project** screen appears.




3. Tap the **Template** button. A list of all saved templates appears.



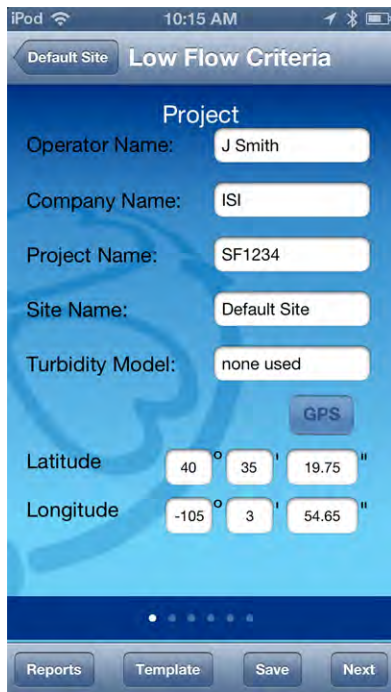
4. Tap on the template you intend to load, and tap the **Load** button.

Set up a Low-Flow Test without a Template

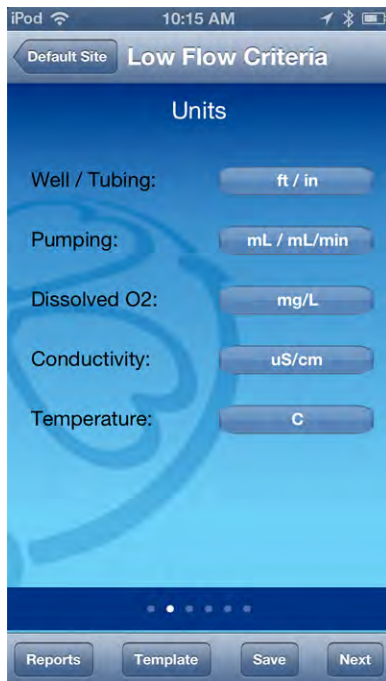
1. Tap the **Gear** icon  to access Low-Flow and tap **Launch**.



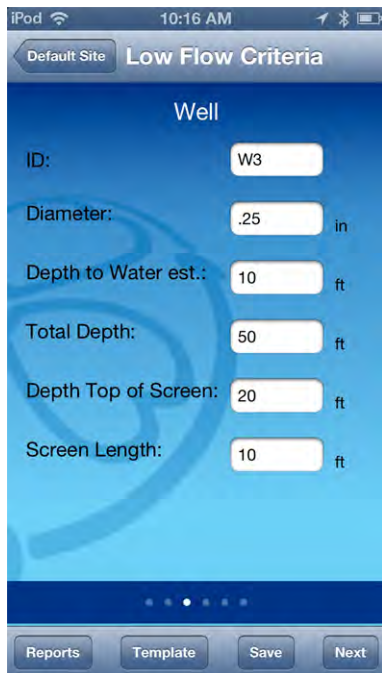
2. The **Project** screen appears.



3. Tap a text-entry field to open the keyboard.
4. Enter the project information. Tap the **Return** button on the keyboard to close the keyboard.
5. Tap the **Next** button to continue to the **Units** screen.



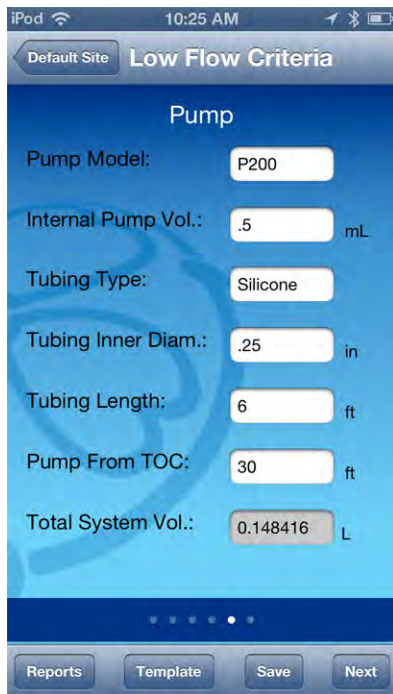
6. If you want to change units, tap the units button and select a different value.
7. Tap the **Next** button to continue to the **Well** screen.



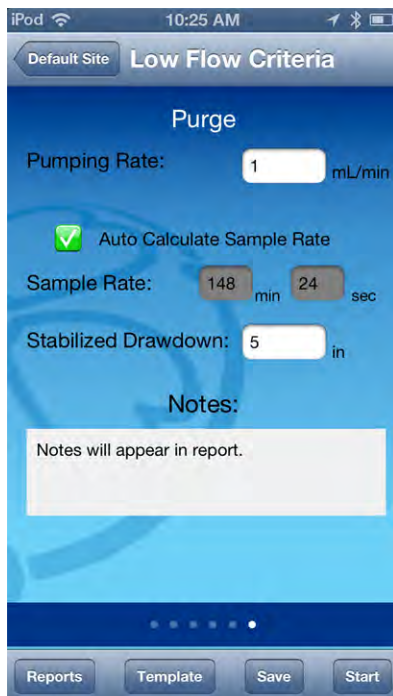
8. Enter the well information.
9. Tap the **Next** button to continue to the **Stabilization** screen.



10. A green checkmark indicates that the stabilization criterion for the parameter is based on percentage rather than an absolute value. Tap a gray box to change from absolute to percentage.
11. Tap the **Next** button to continue to the **Pump** screen.



12. Enter the pump information. The total system volume is calculated using the internal pump volume, the tubing inner diameter, and the tubing length.
13. Tap the **Next** button to continue to the **Purge** screen.



14. Enter the pumping rate you intend to use during the test.
15. Enter the sampling rate you intend to use, or select **Auto Calculate Sample Rate** if you want the software to assign a sample rate.
16. Enter an estimate of the drawdown you expect during the testing. It is optional to enter notes in the **Notes** field.

-
17. If you would like to save the test set up information as a template to use again later, tap the **Save** button. You can save it using the default name, or tap the field and enter a new name.

Install the Pump

1. Determine the static water level.
2. Install the pump in the well.
3. Start the pump and determine the optimum final pumping rate and final stabilized drawdown from static water level. This can be calculated using a graduated cylinder, stopwatch, and water level tape.

Prepare the Flow Cell



1. Select the barbed NPT fitting that will fit with the tubing size.
2. Tape the threads with plumbing tape.
3. Attach a fitting to the inflow port at base of the cylinder and to the outflow port at the top of the cylinder. Tighten until hand-tight. Do not tighten with a wrench.



The 3-way valve and check valve are optional.

4. Attach the tubing.
5. Use the attachment screw to connect the flow cell to the base plate.
6. Insert the calibrated SMARTROLL™ MP Instrument.

Start a Low-Flow Test

1. After you have entered the setup information, installed the pump, and set up the flow cell you are ready to start the Low-Flow test.
2. From the **Purge** screen tap the **Start** button.
3. The test begins and the sample rate countdown is displayed on screen. The parameters appear after the first countdown is complete.
4. When you are satisfied with the stability of the test, tap the **Accept** button.
5. Enter the final values for drawdown, pumping rate, and total volume pumped.
6. You can accept the default file name, or enter a different name. It is optional to enter notes.
7. Click the **Next** button. The report appears. You can pinch and drag the report to resize the view.



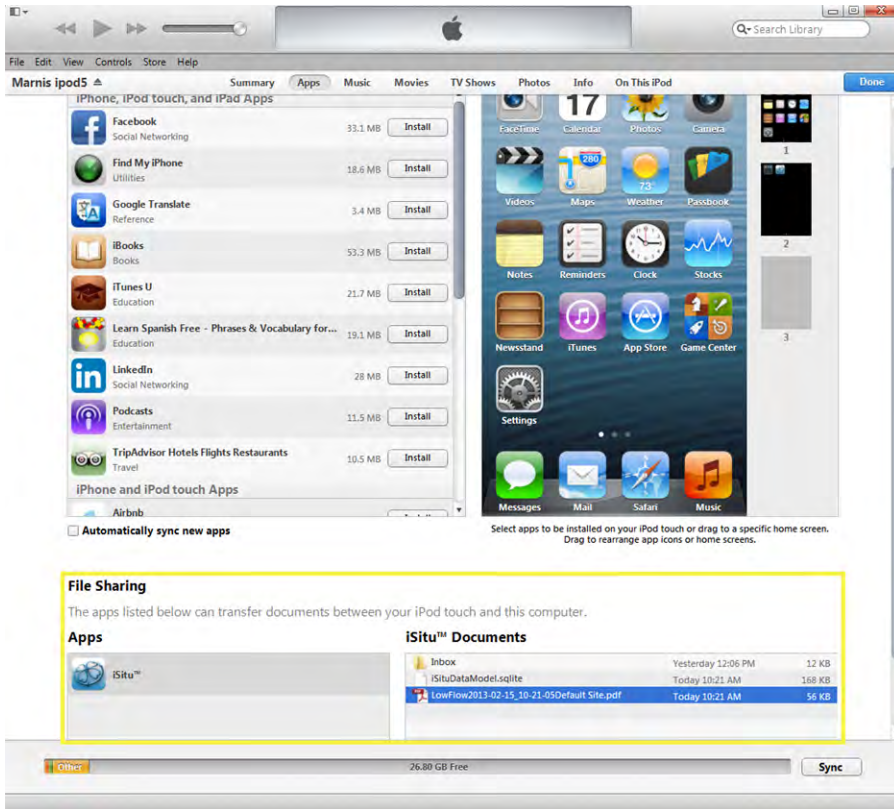
The test report is saved as a PDF file, which can be emailed or transferred to a computer via iTunes®.

Transfer Low-Flow Report to a Computer

1. Connect the mobile device to a PC with iTunes installed.
2. Click on the Apple device icon next to the eject button.



3. Click the word **Apps** near the top of the screen.
4. Scroll to the bottom of the screen and click on **iSitu**.



5. Click on a file and drag it to your desktop.

Care and Maintenance

Maintenance Schedule

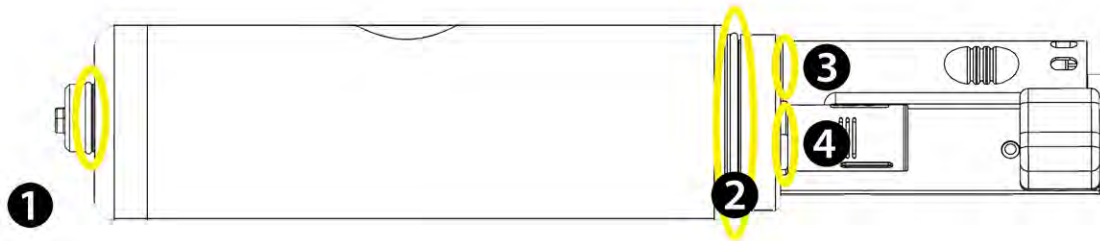
For best results, send the instrument to the manufacturer for factory calibration every 12 to 18 months.

User-Serviceable Parts

The user-serviceable parts on the instrument include the O-rings, the pH/ORP sensor, and the RDO Sensor Cap.

O-rings

The instrument has several O-rings that can be maintained by the user in order to keep moisture from entering the instrument and damaging the electronics. Apply a very thin layer of vacuum grease to new O-rings upon installation. The O-rings are located in the following areas.



1	Connector
2	Instrument housing
3	pH sensor
4	RDO Sensor

RDO Fast Sensor Cap Replacement

The RDO Fast Sensor Cap has a 1-year typical life (15 months of total usage) after the sensor takes its first reading, or 36 months from the date of manufacture. Follow the instructions included in the RDO Sensor Cap Replacement Kit. Replacement caps are available from In-Situ Inc. or your authorized In-Situ distributor.

pH/ORP Sensor Replacement

To replace the pH/ORP sensor or to refill the reference junction, follow the instructions in the pH/ORP Sensor Instruction Sheet that is included with the replacement sensor.

Instrument Storage

To store the probe for a week or less, place the probe in the calibration cup with at least 10 mL of clean water to maintain a moist storage environment.

To store the probe for more than a week, perform the following procedure.

1. Remove the pH/ORP sensor and place the orange pH port plug into the empty pH/ORP port to prevent any humidity from entering the probe.
2. Locate the sensor storage bottle in which the pH sensor was originally shipped.
3. Open the bottle and remove the O-ring.
4. Add enough pH storage solution or pH 4 solution to cover the sensor bulb (about 10 mL).

-
- Slide the O-ring onto the sensor, and then slide the bottle cap over the sensor as shown.



- Place the sensor tip in the buffer and tighten the cap to prevent the glass bulb from drying.

Cleaning the pH/ORP Sensor

Begin with the gentlest cleaning method and continue to the other methods only if necessary. Do not directly touch or wipe the glass bulb.

To clean the pH sensor, gently rinse with cold water. If further cleaning is required, consider the nature of the debris to determine the appropriate method.

Remove Crystalline Deposits

- Clean the sensor with warm water and mild soap.
- Soak the sensor in 5% HCl solution for 10 to 30 minutes.
- If deposits persist, alternate soaking in 5% HCl and 5% NaOH solutions.

Remove Oily or Greasy Residue

- Clean the sensor with warm water and mild soap.
- Methanol or isopropyl alcohol may be used for short soaking periods, up to 1 hour.
- Do not soak the sensor in strong solvents, such as chlorinated solvents, ethers, or ketones, including acetone.

Remove Protein-Like Material or Slimy Film

- Clean the sensor with warm water and mild soap.
- Soak the sensor in 0.1M HCl solution for 10 minutes and then rinse with deionized water.



Note: After performing any of these cleaning methods, rinse the sensor with water and then soak overnight in pH 4 buffer.

Cleaning the RDO Sensor

Clean the Sensor Cap

- Leave the cap on the sensor.
- Rinse the sensor with clean water from a squirt bottle or spray bottle.
- Gently wipe with a soft cloth or brush if biofouling is present.

-
- If extensive fouling or mineral build-up is present, soak the RDO Cap end (while the cap is still installed on the sensor) in commercially available household vinegar for 15 minutes, then soak in deionized water for 15 minutes.



Note: Vinegar is safe for all of the sensors on the probe including the RDO Sensor if the sensor cap is on.

- Do not use organic solvents because they will damage the sensing material. Do not remove the cap from the sensor prior to wiping.
- After cleaning the sensor cap, perform a 2-point calibration.

Clean the Optical Window

- Perform this task only once per year when you replace the sensor cap.
- Pull to remove the sensor cap.
- Gently wipe the optical window with the supplied lens wipe.



Important: Do not wet the interior lens area with water or any solution.

Cleaning the Conductivity Sensor

- Before you begin, ensure that the RDO Cap and any removable sensors are in place. Rinse the conductivity sensor under running water to remove loose material.
- Follow Cleaning Procedure 1. If debris is still present, progress to the next cleaning procedure. If the debris is removed, skip to the last step.

Cleaning Procedure 1

Avoid damaging the plastic material of the conductivity cell. Gently scrub the conductivity cell with a soft swab and mild soap such as a dilute solution of dish detergent. The probe is shipped with polyurethane foam swabs for this purpose. You can also achieve good results using a gentle back-and-forth motion with a thin cotton pipe cleaner. If debris is still present, continue to Cleaning Procedure 2. If the sensor is clean, skip to the last step.

Cleaning Procedure 2

Avoid damaging the plastic material of the conductivity cell. Gently scrub the conductivity cell with a foam swab and an aggressive soap such as Alconox cleaner. If debris is still present, continue to Cleaning Procedure 3. If the sensor is clean, skip to the last step.

Cleaning Procedure 3

Soak the sensor with dilute acetic acid (10:1 solution) or commercially available household vinegar to pre-soften calcium deposits. Follow this with Cleaning Procedure 1 or Cleaning Procedure 2, depending on the degree of residual contamination. The probe can soak for any length of time in household vinegar. If debris is still present, continue to Cleaning Procedure 4. If the sensor is clean, skip to the last step.

Cleaning Procedure 4

Typically apply dilute phosphoric acid (< 27 %) or the consumer product LIME-A-WAY with a soft swab to remove iron or calcium deposits that remain after using Process 3. Do not allow the cleaner to be in contact with the sensor for more than 10 minutes. Rinse well with clean water and continue to the last step.

Check the sensor calibration before redeployment. Recalibrate the sensor when necessary.

Declaration of Conformity

Manufacturer: In-Situ, Inc.
221 East Lincoln Avenue
Fort Collins, CO 80524
U.S.A.

Declares that the following product:

Product name: smarTROLL™ MP Handheld
Model: smarTROLL MP
Product Description: The smarTROLL MP Handheld is a water quality instrument equipped with sensors for measuring dissolved oxygen, conductivity, temperature, pH, ORP, and depth in natural groundwater and surface water. An iOS mobile device running the iSitu App allows instrument control, data display, and data transfer. A battery pack supplies power to the probe and enables wireless communication between the iOS device and the probe. The battery pack includes a barometric pressure sensor and an additional temperature sensor.

The device meets or exceeds the following international requirements and compliance standards:

Under the EMC Directive 2004/108EC

- IEC 61000-6-1: 2005 - Electromagnetic Compatibility (EMC) - Part 6-1: Generic Standards - Immunity for Residential, Commercial and Light-Industrial Environments
- IEC 61000-6-3: 2006 - Electromagnetic Compatibility (EMC) - Part 6-3: Generic Standards - Emission Standard for Residential, Commercial and Light-Industrial Environments
- Electrostatic Discharge Immunity Test (IEC 61000-4-2:2008)
- Radiated, Radio-Frequency, Electromagnetic Field Immunity Test (IEC 61000-4-3:2006, A1:2007, A2:2010)
- EFT/Burst Immunity Test (IEC 61000-4-4:2004, A1:2010)
- Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008)
- Power Frequency Magnetic Field Immunity Test (IEC 61000-4-8:2009)
- Radiated Electromagnetic Emissions (CISPR 22: 2008)



Jon Firooz
Vice President of R & D
In-Situ, Inc.
April 5, 2013



Georgia Power Company
Plant Wansley CCR Landfill
Carrollton, Georgia 30116
Heard County

Alternate Source Demonstration



ACC

ATLANTIC COAST
CONSULTING, INC.

Certification Statement

I hereby certify that the information used in this alternate source demonstration for the CCR Unit located at Georgia Power's Plant Wansley located at 1371 Liberty Church Road, Carrollton, Georgia, and designated as the Coal Combustion By-Product Disposal Facility, is accurate pursuant to the requirements of 40 CFR §257.94(e)(2) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.



Evan B. Perry
Georgia Registered Professional
Geologist No. 1744
Originator
Date: December 2, 2019



Richard T. Deason, P.E.
Georgia Registered Professional
Engineer No. 2213
Reviewer

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SECTION 1

Introduction

This alternate source demonstration (ASD) has been prepared pursuant to 40 CFR § 257.94(e)(2), which states that “the owner/operator may demonstrate that a source other than the coal combustion residual (CCR) unit caused the statistically significant increase over background levels (SSI) for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.”

In accordance with the United States Environmental Protection Agency (USEPA) CCR rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR21302-21501, April 17, 2015), Georgia Power Company (GPC) has implemented routine semiannual groundwater monitoring at Plant Wansley CCR Landfill (the site) to meet the requirements of § 257.90(e) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring and reporting for the site is performed in accordance with monitoring requirements § 257.90 through § 257.94. Following completion of routine groundwater monitoring completed in June 2019 unverified SSIs for sulfate, an analyte included Appendix III of 40 CFR § 257, were identified for groundwater monitoring network wells GWC-5, GWC-12, GWC-17, and GWC-30. Additionally, intrawell prediction limit exceedances were identified at GWA-28 and GWA-29 (upgradient locations where statistics are completed for comparison purposes). Verification resampling was completed in September 2019 and only the sulfate concentrations for GWC-5 and GWC-12 remained at levels greater than the respective intra-well prediction limits. These results are considered SSIs.

The site is located in northeast Heard County and southeast Carroll County on Liberty Church Road, approximately 12 miles southeast of the City of Carrollton. The plant property encompasses approximately 5,100 acres and the landfill is permitted to operate by the Georgia Environmental Protection Division (EPD) [Permit No. 074-005D(L)(I)]. The disposal facility is comprised of three cells within an approximate 73-acre disposal footprint. Figure 1, Plant Wansley CCR Landfill Map, depicts the site location referenced to regional landmarks. A recent potentiometric surface map is provided for reference as Figure 2, Plant Wansley CCR Landfill September 2019 Potentiometric Surface Map.

SECTION 2

Alternate Source Demonstration

As allowed by §257.94(e)(2), the site may demonstrate that a source other than the CCR unit caused the SSI for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This report demonstrates an alternate source of natural variation for SSIs of sulfate at groundwater monitoring network wells GWC-5 and GWC-12 and error in statistics due to a limited background data set.

Lines of evidence supporting this ASD include:

1. Lack of a migration pathway
2. Limited Background data set
3. Sitewide range of sulfate concentrations

2.1 SSI Identification

An Appendix III analyte (sulfate) was identified as an unverified SSI for four wells (GWC-5, GWC-12, GWC-17, and GWC-30) in the *Supplemental 2019 First Semiannual Groundwater Monitoring and Corrective Action Report*. Additionally, statistically significant increases for sulfate were noted in two upgradient locations (GWA-28 and GWA-29). These results were resampled during the September 2019 monitoring event. Four of the six concentrations declined to levels below the intra-well statistical limit and were therefore not verified as SSIs. However, two of the concentrations (GWC-5 and GWC-12) were verified. A summary of the results is provided in Table 1, Summary of Sulfate Statistical Limit Exceedances.

Table 1. Summary of Sulfate Statistical Limit Exceedances

Location	Intra-Well Prediction Limit	June 2019 Concentration	September 2019 Concentration
GWA-28	1.6	2.2	1.3
GWA-29	14	26	9.2
GWC-5	28	31	34
GWC-12	25	25	26
GWC-17	1.0	1.1	ND (0.99 J)
GWC-30	1.5	1.7	1.3

Notes:

1. Units are milligrams per liter (mg/L).
2. Bold values exceed intra-well prediction limit.
3. 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.
4. June 2019 result for GWC-12 equaled but did not exceed the prediction limit.

2.2 Data Review

The following sections provide a review of available data and demonstrate that the SSIs for sulfate at GWC-5 and GWC-12 are: 1) not due to a site related impact and 2) the result of a limited background data set that does not yet fully characterize the range of background conditions at the site.

2.2.1 Lack of Migration Pathway

The landfill is a fully lined unit including a 60-mil thick high-density polyethylene (HDPE) liner underlain by a geosynthetic clay liner (GCL), a 6-inch layer of compacted clay (maximum permeability of 1×10^{-5} cm/sec), and structural fill. Two sedimentation basins and a return water pond capture all leachate, sluice water and storm water run-off generated in the lined cell areas. Cell 1 has primarily been used for waste placement and neither GWC-5 nor GWC-12 are located downgradient of that cell. Very limited gypsum slurry has been directed into Cells 2 and 3. Therefore, exceedance of sulfate exceedances in wells GWC-5 and GWC-12 cannot be attributed to direct leakage from the landfill cells.

In addition, review of Figure 2 indicates that well GWC-5 is not directly in the groundwater flow path of Cell 3 and is upgradient of Cell 2. This precludes a release from either of these cells from being the cause of the SSIs. In fact, well GWC-25, which is located hydraulically upgradient of Cell 3 and well GWC-5 exhibits a similar background level of sulfate.

2.2.2 Natural Variability of Sulfate in Groundwater

Intra-well prediction limits have been developed using background monitoring data collected in eight monitoring events completed during 2016 - 2017. As noted in a previous ASD included in the *2018 Groundwater Monitoring and Corrective Action Report*, prepared by ACC, dated January 31, 2019 and posted to the site's CCR compliance website, there are longer-term temporal fluctuations in groundwater geochemistry that are not adequately characterized by the short time period of background monitoring. One deficiency of the background period was that it was completed during period of relatively low precipitation.

According to the National Oceanic and Atmospheric Administration (NOAA) the average annual precipitation for Carrollton, Georgia is 51.4 inches. The University Georgia College of Agricultural & Environmental Sciences maintains a statewide weather monitoring network including a Plant Wansley station. Data from the Plant Wansley station indicate that 2016 was a significantly drier than average year with total precipitation of 39.6 inches. However, 2017 and 2018 were wetter than average with respective totals of 69.7 and 77.3 inches. Relatively soluble anions such as sulfate are mobilized during periods of high precipitation. As shown in Figure 3, Sulfate Time Series - GWC-5 and GWC-12 / Upgradient Locations, there was a particularly sharp decline in sulfate concentrations for GWC-5 between early 2016 and early 2017 followed by an increase later in 2017 (corresponding to a period of increased precipitation).

Sulfate concentrations noted in wells GWC-5 and GWC-12 are attributed to natural variability in groundwater. The cause of the sulfate SSIs in wells GWC-5 and GWC-12 appears to result from an inadequate background pool of data. The background monitoring period does not

capture the full range of natural variability of sulfate concentrations due to factors such as precipitation and groundwater flow.

Review of Figure 3 indicates that sulfate concentrations in site groundwater exhibit gradual variability over time. The limited background data set only consists of 8 monitoring events completed over less than a 2-year period. This limited temporal variability does not adequately accommodate slight long-term variation in groundwater quality, as is observed at wells GWC-5 and GWC-12.

In addition, the gradual long-term variability observed in these wells supports the conclusion that the SSIs are not the result of a release from the site. As reported in the *2018 Groundwater Monitoring and Corrective Action Report*, the groundwater flow velocity at the site is approximately 179 feet/year. With groundwater flow moving that rapidly, a release from the unit would manifest as a sudden and significant increase in groundwater concentrations. As shown on Figure 3, that has not occurred. The absence of a sudden and significant increase in concentrations support the conclusion that sulfate SSIs are the result of gradual natural variability not accommodated by the limited background data set and are not the result of a release from the CCR unit.

2.2.3 Sitewide Range of Sulfate Concentrations

Well-specific background data are used to calculate an intrawell statistical limit. Slight changes in concentration result in SSIs (even if levels are well below site-wide background ranges). The concentrations of sulfate in wells GWC-5 and GWC-12 are less than levels routinely detected in other site-wide samples including upgradient groundwater. At least six site groundwater monitoring wells (GWA-3, GWC-7, GWC-8, GWC-10, GWC-25, and GWC-33) have produced sulfate levels greater than those reported in samples from GWC-5 and GWC-12. A graph depicting concentrations at GWC-5 and GWC-12 compared to the range of site-wide variability is shown in Figure 4, GWC-5 and GWC-12 Sulfate Concentrations vs. Site-Wide Range.

Figure 4 shows that well GWC-25, which is upgradient of well GWC-5, has concentrations similar to GWC-5. Because landfill Cells 2 and 3 have received limited CCR waste since 2018, the occurrence of sulfate in wells GWC-5 cannot be attributed to any release from the lined landfill cells.

2.3 Summary and Recommendations

The CCR unit is not the apparent source of the sulfate SSIs. The lined landfill was constructed to prevent direct impact to groundwater and there is no waste in close proximity to the wells. The apparent SSIs for sulfate in wells GWC-5 and GWC-12 are attributed to natural variability in groundwater flow at the site. Dry weather conditions that occurred in 2016 indicate the possibility that a natural variation in groundwater quality occurred. The actual concentrations reported in samples from GWC-5 and GWC-12 are within site-wide ranges for upgradient groundwater and upstream surface water. The monitoring wells should remain in detection monitoring. At a future date, it may be desirable to update the data set used for statistical background in order to account for a broader range of background conditions.

SECTION 3

Conclusions and Recommendations

The *Supplemental 2019 First Semiannual Groundwater Monitoring and Corrective Action Report* identified unverified sulfate SSIs in four groundwater monitoring locations. Concentrations statistically greater than background were also identified for two upgradient locations. Only two of the six initial concentration were verified at statistically significant levels by resampling (GWC-5 and GWC-12). This ASD has identified the source of the sulfate SSIs at these two locations as a natural variation in groundwater quality. Observations supporting the ASD include:

- The background data set does not account for the full range of intra-well background because much of the data were collected during a period of low precipitation.
- The actual sulfate concentrations at GWC-5 and GWC-12 are within site-wide ranges for upgradient groundwater and less than a subset of other downgradient locations.
- These locations are not downgradient of Cell 1 where waste has predominately been placed.

The locations have met the requirements for a demonstration listed in § 257.94(e)(2). Therefore, these locations should remain in detection monitoring. Detection monitoring results should continue to be presented in Annual and Semiannual Groundwater Monitoring and Corrective Action Reports. At a future date, the data set used for statistical background will be updated to account for a broader range of background conditions.

SECTION 4 References

ACC, Inc. *Supplemental First 2019 Semiannual Groundwater Monitoring and Corrective Action Report*, Plant Wansley CCR Landfill, 2018.

ACC, Inc., *Alternate Source Demonstration for Plant Wansley CCR Landfill*, 2018.

NOAA, <http://w2.weather.gov>, Peachtree City, Georgia National Weather Service Forecast Office.

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University of Georgia Weather Network, <http://www.georgiaweather.net>, Plant Wansley station, Roopville, Georgia.

FIGURES

FIGURES



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PROJECT:
**PLANT WANSLEY
CCR LANDFILL**

1371 LIBERTY CHURCH ROAD
CARROLLTON, GEORGIA

REVISIONS

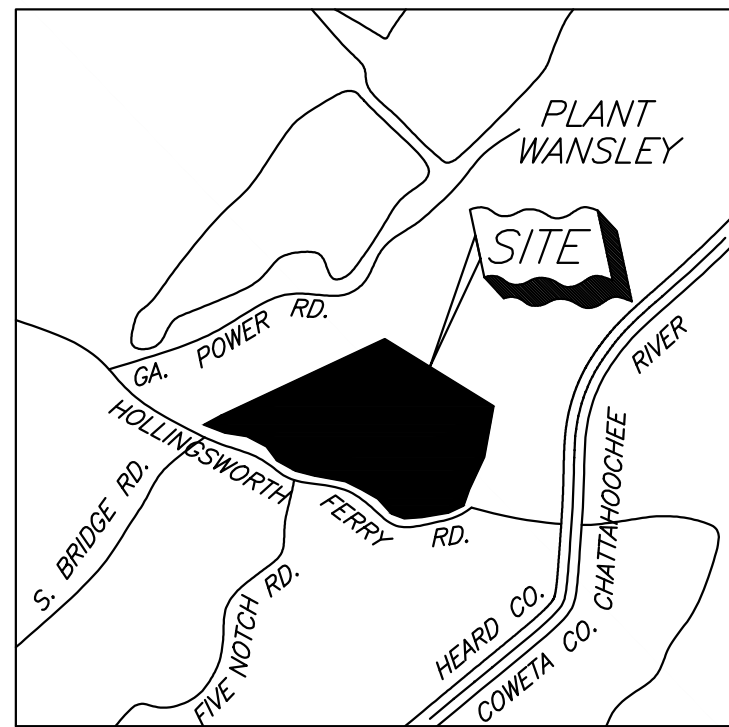
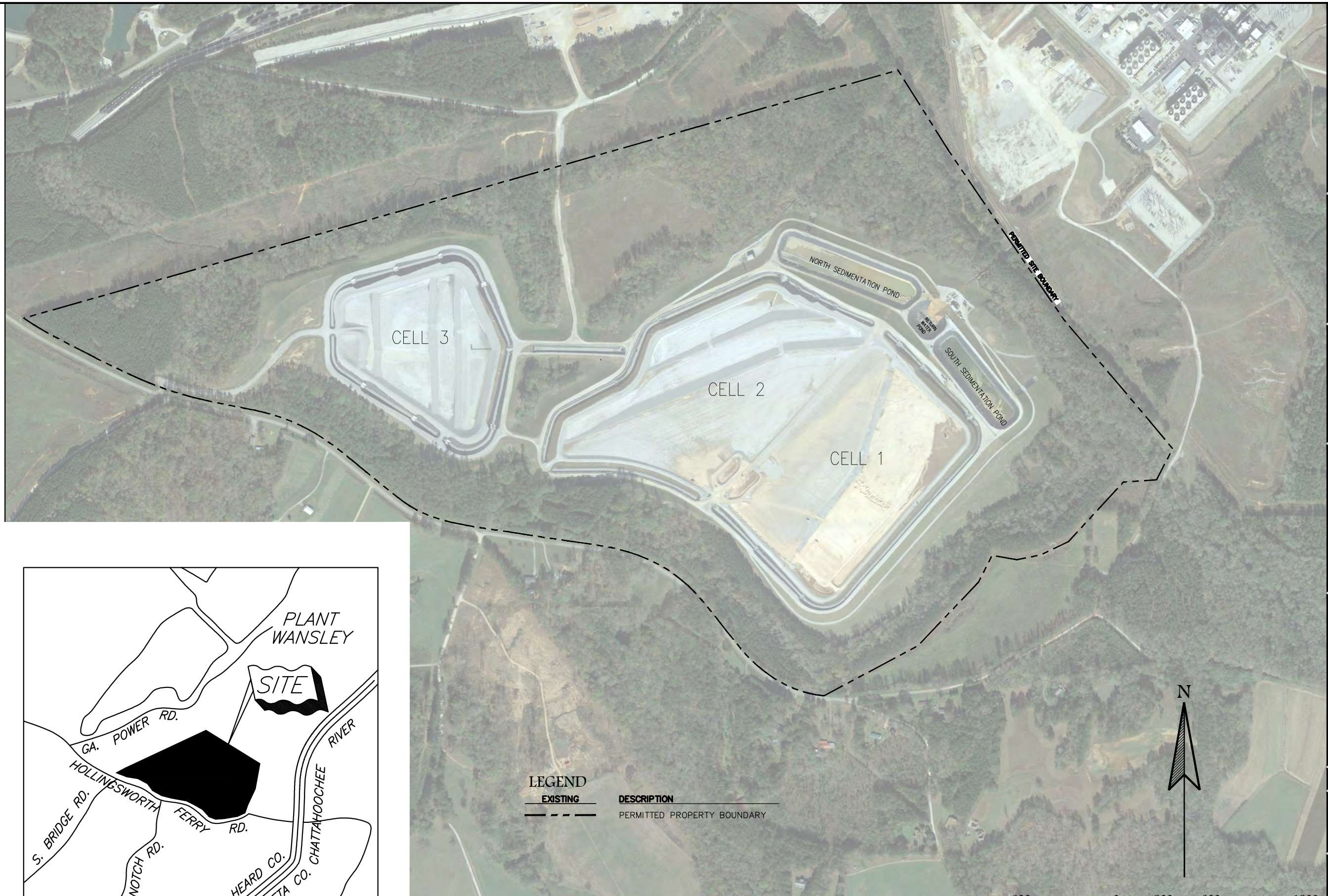
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PROJECT NUMBER:
I054-110
March 2019

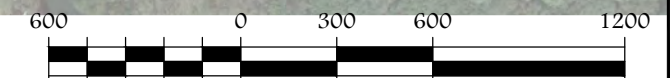
**PLANT WANSLEY
CCR LANDFILL
MAP**

FIGURE 1



LOCATION MAP

LEGEND	DESCRIPTION
	EXISTING
	PERMITTED PROPERTY BOUNDARY



SCALE: 1" = 600' (IN FEET)

P:\Industrial\054 - Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - Semi-Annual GWRs\2nd 2019 LF SA\Figures\Plant Wansley LF - 2nd 2019 Pot. Map.dwg 2019-11-21 MATT MALONE



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 CARROLLTON, GEORGIA

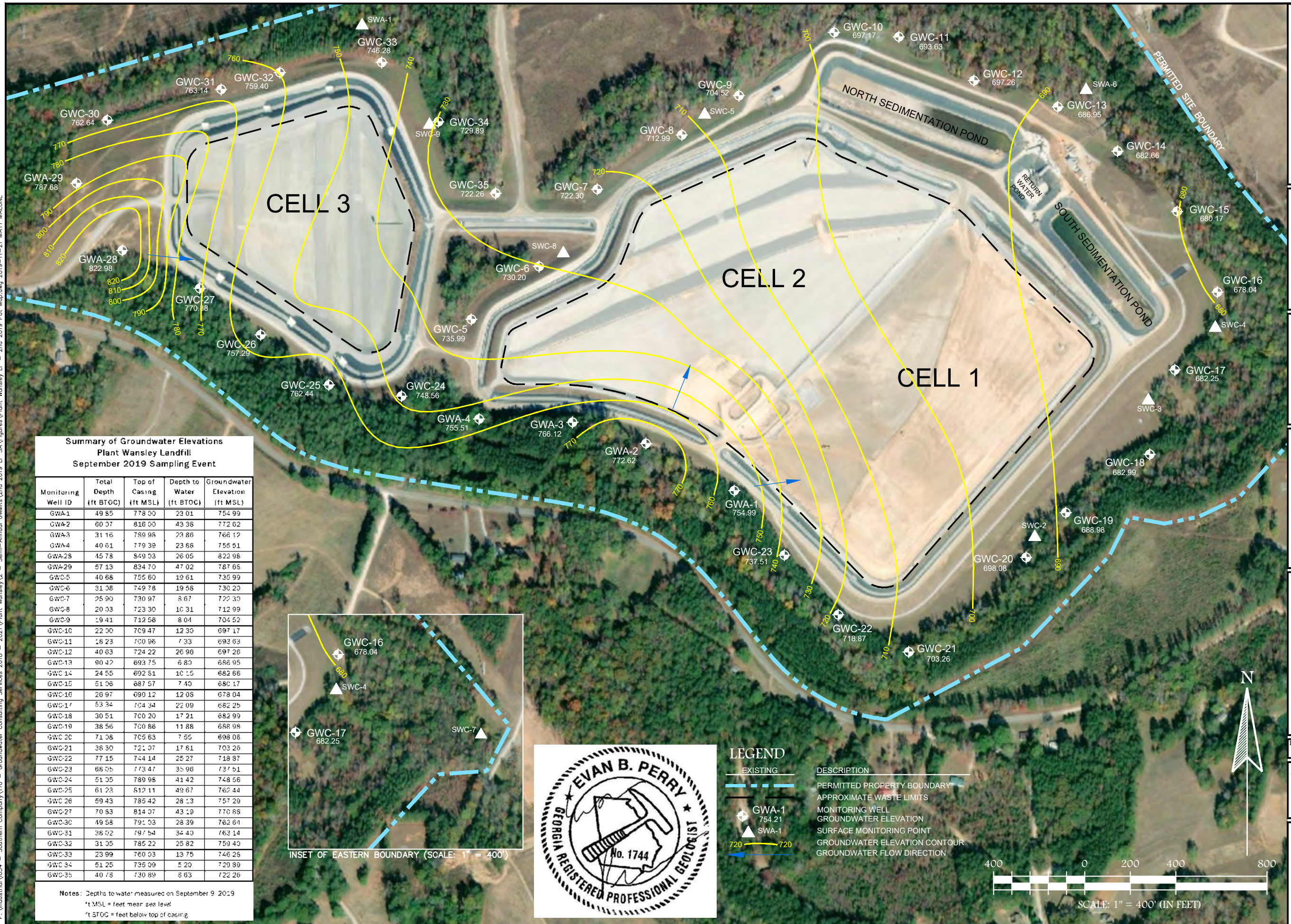
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 I054-110
 November 2019

SEPTEMBER 2019 POTENTIOMETRIC SURFACE MAP

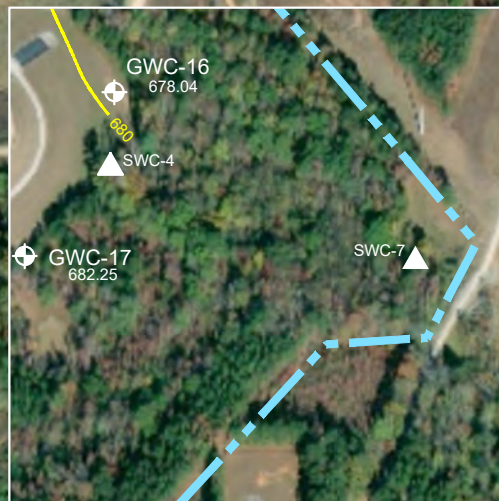
FIGURE 2



**Summary of Groundwater Elevations
 Plant Wansley Landfill
 September 2019 Sampling Event**

Monitoring Well ID	Total Depth (ft BTOC)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	49.55	778.00	23.01	754.99
GWA-2	60.07	816.00	43.36	772.62
GWA-3	31.16	789.98	23.86	766.12
GWA-4	40.61	779.39	23.66	755.51
GWA-28	45.78	849.03	26.05	822.98
GWA-29	57.13	834.70	47.02	787.68
GWC-5	40.68	755.60	19.61	735.99
GWC-6	31.08	749.78	19.56	730.20
GWC-7	25.90	730.97	8.67	722.30
GWC-8	20.03	723.30	10.31	712.99
GWC-9	19.41	712.56	8.04	704.52
GWC-10	22.30	709.47	12.30	697.17
GWC-11	16.23	700.96	7.33	693.63
GWC-12	40.63	724.22	26.96	697.26
GWC-13	90.47	693.75	6.83	686.95
GWC-14	24.55	692.61	10.15	682.66
GWC-15	51.06	687.57	7.40	680.17
GWC-16	26.97	690.12	12.08	678.04
GWC-17	53.34	704.34	22.09	682.25
GWC-18	30.51	700.20	17.21	682.99
GWC-19	38.56	700.88	11.88	688.98
GWC-20	71.08	705.63	7.55	698.08
GWC-21	36.30	721.07	17.61	703.26
GWC-22	77.15	744.14	25.27	718.87
GWC-23	66.05	773.47	35.96	737.51
GWC-24	51.05	789.98	41.42	748.56
GWC-25	61.23	812.11	49.67	762.44
GWC-26	59.43	785.42	28.13	757.29
GWC-27	70.83	814.07	43.19	770.88
GWC-30	49.58	791.03	28.39	762.64
GWC-31	36.02	797.54	34.40	763.14
GWC-32	31.05	785.22	25.82	759.40
GWC-33	23.99	760.03	13.75	746.28
GWC-34	51.25	735.09	5.29	729.89
GWC-35	40.78	730.89	5.63	722.26

Notes: Depths to water measured on September 9 2019
 † MSL = feet mean sea level
 † BTOC = feet below top of casing



LEGEND

- EXISTING**
- PERMITTED PROPERTY BOUNDARY
 - APPROXIMATE WASTE LIMITS
 - MONITORING WELL
 - GROUNDWATER ELEVATION
 - SURFACE MONITORING POINT
 - GROUNDWATER ELEVATION CONTOUR
 - GROUNDWATER FLOW DIRECTION

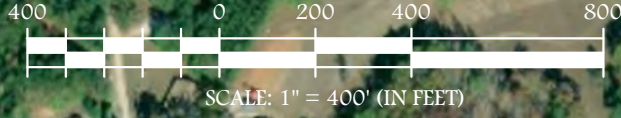
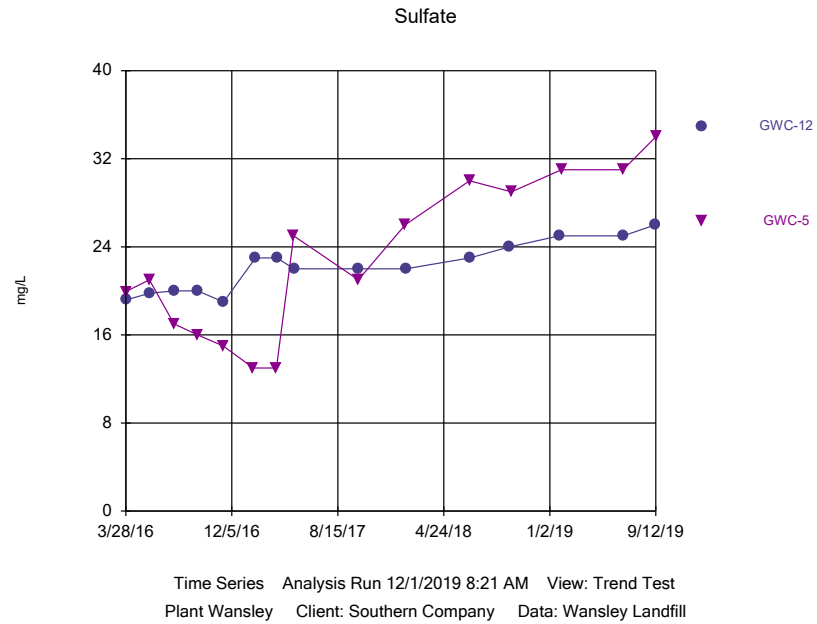


Figure 3. Sulfate Time Series - GWC-5 and GWC-12 / Upgradient Locations

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Sanitas™ v.9.6.23 Sanitas software licensed to ACC. UG
 Hollow symbols indicate censored values.

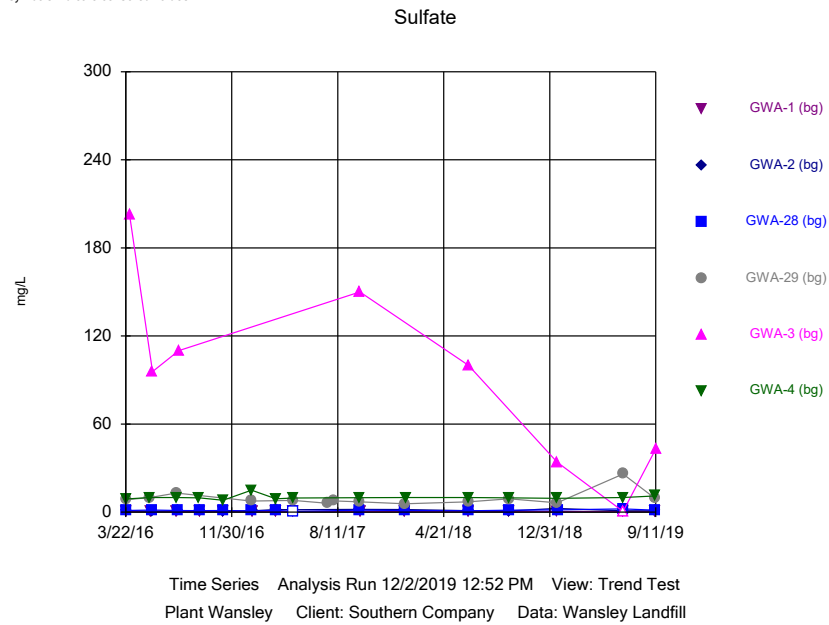
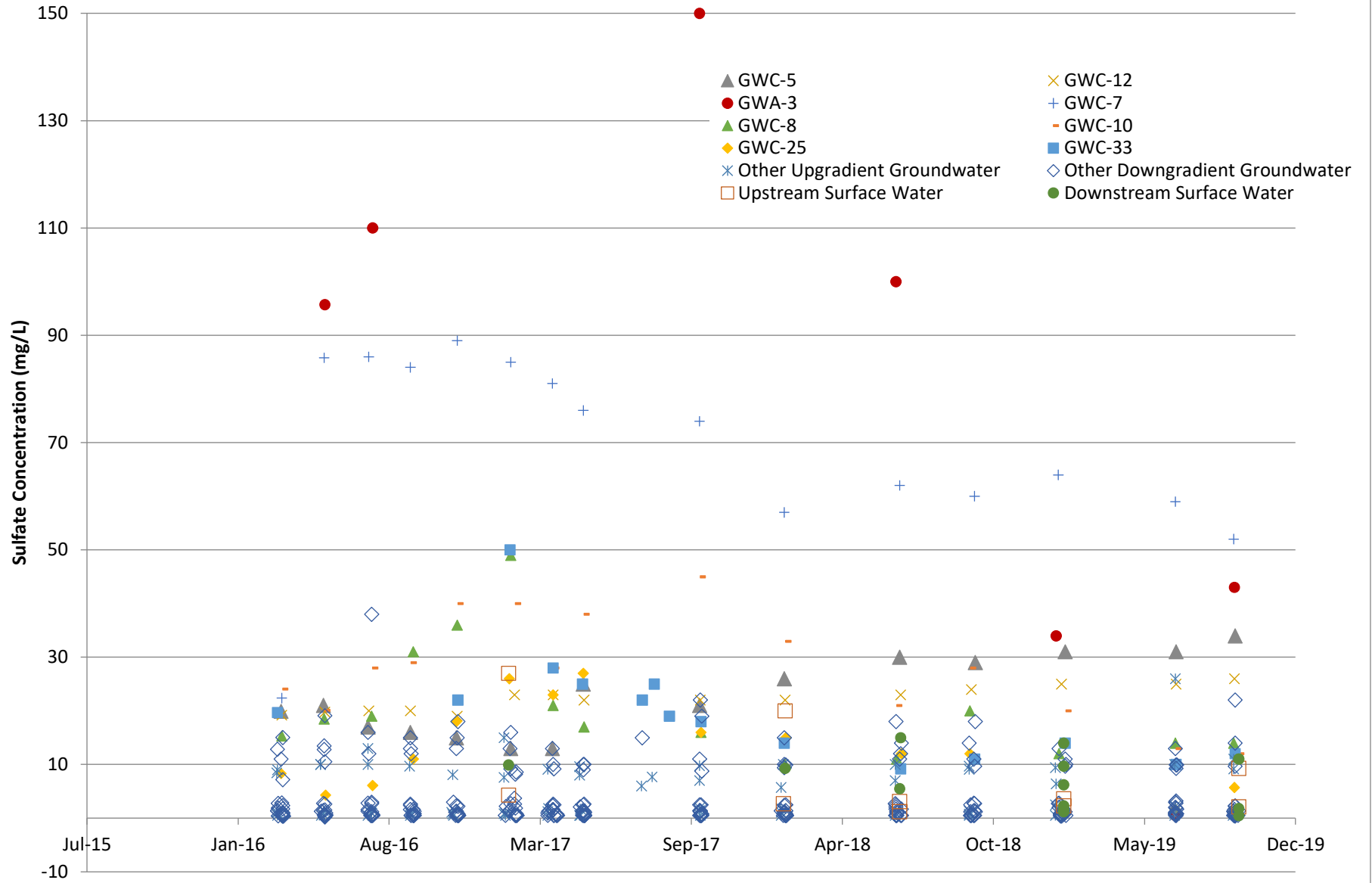


Figure 4 - GWC-5 and GWC-12 Sulfate Concentrations vs. Site-Wide Range



Georgia Power Company
Plant Wansley CCR Landfill
EPD Permit No. 074-005D(LI)
Heard County

Alternate Source Demonstration



**ATLANTIC COAST
CONSULTING, INC.**

Certification Statement

I hereby certify that this alternate source demonstration for the Georgia Power Company's Plant Wansley Coal Combustion Residual (CCR) Landfill, located in Carrollton, Georgia, was completed in accordance with the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management, Rule 391-3-4-.14(23)(c).

Evan B. Perry, P.G.
Georgia Registered Professional
Geologist No. 1744
Originator
Date: 2020-04-15



Chris A. Klamke, P.G.
Georgia Registered Professional
Geologist No. 1635
Reviewer




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Appendix E - Background Groundwater Data Summaries

1.0 Introduction

This alternate source demonstration (ASD) has been prepared pursuant to the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391.-3-4-.14(23)(c), which state that “the owner/operator may demonstrate that a source other than a MSWLF caused the contamination or that the statistically significant increase (SSI) resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality”. Pending approval of the November 2018 Plant Wansley CCR Landfill permit application groundwater monitoring data continue to be evaluated in accordance with the requirements of the current permit (i.e., semi-annual intra-well statistical analysis of metals included in Appendix I and II of 40 CFR 258).

SSIs were identified on January 17, 2020, following analysis of data collected during the September 2019 semi-annual monitoring event and subsequent January 2020 resampling. These SSIs were generally triggered by low-level concentrations of metals previously identified as naturally occurring in groundwater (SCS, 2017). A summary of the SSIs identified in the 2019 Annual Groundwater Monitoring and Corrective Action Report is provided in Table 1, Summary of September 2019 SSIs.

Table 1. Summary of September 2019 SSIs

Constituent	Location
Barium	GWC-6, GWC-14, GWC-16, GWC-18, GWC-25, GWC-34
Chromium	GWC-5, GWC-6, GWC-13, GWC-20, GWC-26, GWC-34, GWC-35
Copper	GWC-31
Nickel	GWC-6
Zinc	GWC-6, GWC-14, GWC-25, GWC-31

This ASD has been prepared to demonstrate that the SSIs shown in Table 1 are not the result of a release from the CCR Landfill and are primarily the result of natural groundwater chemistry variation not accommodated by the statistical method or variability induced by sampling or analysis.

1.1 Background

Plant Wansley encompasses approximately 5,100 acres in northeast Heard County and southeast Carroll County on Liberty Church Road, approximately 12 miles southeast of the City of Carrollton. The Georgia Power Company (GPC) Plant Wansley CCR Landfill (the Site) is comprised of three cells within an approximate 73-acre disposal footprint. The facility is permitted to operate by the EPD [Permit No. 074-005D(LI)]. Figure 1, Site Map, depicts the Site location referenced to regional landmarks. A recent potentiometric surface map is provided for reference as Figure 2, September 2019 Potentiometric Surface Map.

Each cell of the Plant Wansley Landfill is lined with a 60-mil thick high-density polyethylene (HDPE) liner underlain by a geosynthetic clay liner (GCL), a 6-inch layer of compacted clay [maximum permeability of 1×10^{-5} centimeters per second (cm/sec)], and structural fill. A

leachate collection and removal system overlies the liner system to remove liquids and reduce head pressure on the liner.

1.2 Previous ASDs

A number of SSIs have historically been identified at the Site due to the natural occurrence of monitored constituents in the variable geologic regimes across the site, ASDs have been prepared for the SSIs, primarily identifying natural variability as the cause. Table 2, Summary of Previous ASDs, provides a summary of previously completed ASDs.

Table 2. Summary of Previous ASDs

Date	Constituent	Well
March 2017	Barium	GWC-9, GWC-11
	Chromium	GWC-10, GWC-11, GWC-16, GWC-31
	Cobalt	GWC-8, GWC-9, GWC-14
	Nickel	GWC-5, GWC-7, GWC-9, GWC-14, GWC-25
	Vanadium	GWC-10, GWC-22
	Zinc	GWC-32
April 2018	Boron	GWC-9 and GWC-14
	Chloride	GWC-9 and GWC-14
	Fluoride	GWC-32
June 2018	Beryllium	GWC-27
	Nickel	GWC-31
	Fluoride	GWC-33
December 2018	pH	GWC-10 and GWC-18
	Total Dissolved Solids	GWC-23
November 2019	Sulfate	GWC-5 and GWC-12

The occurrence of barium, chromium, cobalt, nickel, vanadium, and zinc in other site groundwater monitoring wells was addressed in an ASD completed in 2017 (SCS, 2017). Detections of barium, chromium, nickel, and zinc again resulted in verified SSIs in other site wells during the routine second 2019 semi-annual monitoring event. The March 2017 ASD previously demonstrated that the source of these metals is natural occurrence in site background. The demonstration of naturally occurring sources of barium, chromium, nickel, and zinc identified in the 2017 ASD included:

- Documentation of metals in pre-waste placement, background groundwater samples;

- Mafic lithologies (e.g. amphibolite and schist units) comprised of minerals containing these metals; and
- The residual saprolitic soils are the result of intense chemical weathering of metamorphic rock material that has acted to release naturally occurring metals in groundwater.

In January 2019, an ASD *Alternate Source Demonstration – Plant Wansley Ash Pond* was submitted to the EPD for lithium (ACC, 2019). Rock analyses for that ASD (e.g., chemical analyses of rock samples) are also relevant to units present at the landfill. The results for the laboratory testing of rock samples is provided in Appendix A, Rock Sample Analysis Results and summarized in Section 2.4. Relevant findings of the January 2019 Wansley Ash Pond ASD include:

- Variable lithologies are present at Plant Wansley; these lithologies have a range of geochemical compositions that can result in localized concentrations of metals (i.e., barium, chromium, copper, and zinc) in groundwater.
- Groundwater sample silicon levels ranging from 4.1 to 22 milligrams per liter (mg/L), indicating solubility of silicate minerals including trace metal bearing minerals, and suggesting that metals derived from natural rock formations have dissolved in groundwater.

As documented in an ASD for Appendix III constituents at well GWC-14, this well is located directly downhill and downgradient from the return water pond, return water pumps, and electrical control building (ACC, 2018). Effluent is transferred from the return water pond to the return water lines that connect to the plant where it is recycled for operations. A high-density polyethylene (HDPE) expansion joint on the return water pipe failed in 2014. The facility made immediate temporary repairs and began to evaluate long-term corrective actions. The pond was taken out-of-service to allow repairs to be made beginning in early 2015. The concrete headwall, HDPE liner and soil berm were removed to expose the buried return water piping leading from the return water pond to the pumps. Repairs to the piping, liner and headwall were completed in early 2017. Although the source of parameter increases has been removed, additional time is likely needed for conditions to return to background.

This ASD document demonstrates that the CCR Landfill is not the cause of the SSIs in Table 1 and is consistent with these previous ASDs.

2.0 Alternate Source Demonstration

Statistical exceedances for barium, chromium, copper, nickel, and zinc were reported in the 2019 Annual Groundwater Monitoring and Corrective Action Report submitted to the EPD on January 31, 2020. Based on the review of CCR Landfill information and evaluation of Site data the SSIs identified in Table 1 are not the result of a release from the CCR unit and are due to the natural occurrence and variability of the constituents in site groundwater and may also be caused by sampling or analytical-induced variability.

The following lines of evidence demonstrate that a release from the CCR Landfill is not the source of the SSIs and explain the likely cause:

- SSIs of primary CCR indicator parameters listed in Appendix III such as boron, chloride, and sulfate do not exhibit SSIs in these wells. A release from the CCR Landfill would result in multiple Appendix III constituent SSIs at elevated concentrations and this has not occurred. Groundwater samples from these wells do not exhibit geochemical characteristics of groundwater that has been impacted by CCR materials.
- Reported intra-well SSIs are frequently the result of low variability during background resulting in conservatively low statistical limits. The low statistical limits are exceeded by even slight variability in groundwater quality. Significant increases or increasing trends are not observed.
- Review of data from upgradient background wells indicate concentration ranges that include SSI concentrations observed in these wells.
- Prior ASDs have documented the natural occurrence and variability of these metals in site earth materials and groundwater.
- Review of equipment and field blank data has identified low-level detections of several of the metals, indicating that sampling or analytical variability has contributed to the low-level concentrations of the SSIs.

The following sections present further details regarding the evidence supporting the conclusion that the reported SSIs are not the result of a release from the CCR Landfill and are likely the result of natural occurrence and variability. A copy of the previous ASD documenting the natural occurrence and variability of metals at the site is provided for reference in Appendix B, 2017 Alternate Source Demonstration for Plant Wansley Disposal Facility Groundwater Monitoring Network. A map depicting the locations of the SSIs is provided in Figure 3, SSI Location Map.

2.1 Absence of Appendix III SSIs

For 11 of the 12 wells with Appendix I metal SSIs listed in Table 1, there are no SSIs for Appendix III indicator parameters. Appendix III SSIs (CCR indicator parameters) are only reported for GWC-14. An ASD completed in 2018 identified a source related to previous operational issues outside of the landfill as the cause of SSIs at this location.

For the remaining 11 wells, a release from the CCR Landfill did not result in SSIs or observed elevated concentrations of Appendix III indicator parameters. Appendix III parameters were

selected by the United States Environmental Protection Agency (USEPA) to serve as a broad-based indication of CCR impacted liquid interaction with groundwater. Absent any Appendix III SSIs, it is reasonable to conclude that the barium, chromium, copper, nickel, and zinc SSIs are not caused by a release from the CCR Landfill.

In addition to the absence of Appendix III SSIs, geochemical fingerprinting of groundwater quality data demonstrates little difference between upgradient and downgradient water quality and the absence of a CCR liquid signature in groundwater. Sampling for the first 2020 semiannual groundwater monitoring event was completed in March 2020. A suite of cations and anions were sampled from the entire Wansley Landfill groundwater monitoring network to identify any apparent geochemical differences between upgradient and downgradient monitoring wells. Constituents released from coal ash will shift the relative and absolute abundances cation and anion away from background conditions. These shifts become apparent when plotted on a tri-linear (Piper) or Stiff diagrams. The site-wide data set is depicted on Figure 4A and 4B, Tri-Linear and Stiff Diagrams.

As shown in Figure 4A, upgradient and downgradient groundwater data are generally comingled on the plot, indicating little discernable difference. Or, more to the point, this indicates that an outside influence such as a CCR release has not altered groundwater chemistry causing downgradient to be different from upgradient. The data on Figure 4 A reflect predominantly a calcium-bicarbonate type water and to a lesser extent, a sodium-bicarbonate type water. Thus, most samples indicate a natural groundwater composition (chemistry), reflecting background conditions.

Figure 4B presents a Stiff diagram for each Site groundwater monitoring well. The size of each diagram corresponds to overall ionic strength and the shape reflects ratios of cations and anions. A CCR impact would characteristically increase the ionic strength and shift ratios away from background. Based on a review of each diagram set, only GWC-14 (discussed above) shows some potential change from background conditions (i.e., pattern distinct from background ionic ratios and strength). Laboratory Analytical Reports are provided in Appendix C, March 2020 Cation and Anion Laboratory Analytical Reports.

Based on Appendix III statistical analysis results and geochemical comparison of groundwater quality, a release from the CCR Landfill has not occurred. Absent a release from the CCR Landfill, the SSIs listed in Table 1 cannot be the result of a release from the CCR Landfill and are the result of an alternate source.

2.2 Low Background Variability and Lack of Trends

The reported SSIs are likely the result of conservatively low intra-well statistical limits and slight variability in groundwater quality. Intra-well prediction limits for the wells and constituents exhibiting SSIs are included as Appendix D, Intra-Well Prediction Limits. As shown on the intra-well plots, with few exceptions, groundwater quality has shown little variability during the background period, resulting in conservatively low prediction limits. Slight variability in concentrations have resulted in exceedances of prediction limits. As noted in the introduction, the SSIs were caused by concentrations significantly less than applicable

primary or secondary MCLs. Additionally, magnitudes of the exceedances were generally low-level; SSI concentrations were less than 0.010 mg/L greater than the relevant statistical limit except 3 of the 19 SSIs. Two of the exceptions were concentrations of zinc at GWC-6 (0.049 mg/L) and GWC-31 (0.081 mg/L), which exceeded statistical limits by 0.043 and 0.044 mg/L, respectively. Although these zinc SSIs were relatively higher in magnitude than 16 of the 17 other SSIs, the actual concentrations remained below the sitewide background maximum levels.

As noted in the previous section these concentrations were not concurrent with Appendix III constituents that would be indicative of a CCR related impact. Most notably, the mobile and sensitive CCR indicator, boron, was not detected in either sample. Therefore, these zinc concentrations, as with the low-level SSIs, are attributed to natural fluctuation in groundwater quality. The concentration of barium in the GWC-14 sample (0.32 mg/L) was 0.20 mg/L greater than its statistical limit and is above the maximum site-wide background range. This exceedance is attributed to the source identified in the 2018 ASD.

Based on review of the intra-well prediction limits, it is evident that most of the SSIs are the result of slight variability in concentrations and not the result of significant increases or increasing trends. Supporting the conclusion that a release from the CCR Landfill is not the cause of the SSIs.

2.3 Background Concentrations

Background groundwater samples have been collected at Plant Wansley CCR Landfill since the inception of monitoring in 2011. Some background data is from wells now downgradient of Cell 3 but was obtained prior to waste placement. These data provide insight into the site-wide averages and ranges of naturally occurring metals concentrations. Background data are pooled from 3 groups:

- Pre-waste placement at all locations - the first four rounds of data collected in 2011 and 2012 for all site wells was collected prior to waste placement.
- Upgradient wells - data from six upgradient locations (GWA-1 through GWA-4, GWA-28 and GWA-29) from 2012-present; and,
- Pre-waste placement at Cell 3 network well locations (GWC-24 through GWC-27 and GWC-30 through GWC-35) – collected prior to waste placement in Cell 3 from 2012 through 2018.

These pooled data sets were reviewed for each metal to evaluate site-wide occurrences. A summary of metals frequency of occurrence and site-wide averages in background is provided in Table 3, Summary of Metals Occurrence in Pooled Site-Wide Background Data Sets. The database outputs for each group are provided in Appendix E, Background Groundwater Data Summaries.

Table 3. Summary of Metals Occurrence in Pooled Site-Wide Background Data Sets

	Barium	Chromium	Copper	Nickel	Zinc
Detection Frequency	85.2%	10.9%	6.0%	18.0%	62.1%
Site-Wide Average Background Concentration	0.025 mg/L	0.0016 mg/L	0.0041 mg/L	0.0019 mg/L	0.011 mg/L
Site-Wide Maximum Background Concentration	0.27 mg/L	0.012 mg/L	0.018 mg/L	0.019 mg/L	0.11 mg/L

Notes:
 mg/L = milligrams per liter

In all cases, except for barium in GWC-14, sample concentrations causing the SSIs were less than the site-wide maximum background concentrations. Two barium SSIs, GWC-16 (0.020 mg/L) and GWC-34 (0.014 mg/L), were very low-level concentrations and caused by concentrations less than the site-wide background averages. In the case of chromium, the intra-well statistical limit used for all seven SSIs was 0.0025 mg/L. This threshold is only 0.009 mg/L greater than the site-wide average concentration. The narrow separation between the background concentration and the statistical limit makes chromium SSIs particularly likely if other factors such as slight errors in sampling or analysis were to occur (see Section 2.5).

Although copper occurs at a frequency of only 6.0% in site-wide background samples, analysis of the background data set identified a likely cause of the SSI at GWC-31. Copper has historically been detected in 16 of 19 samples at background well GWA-29, which is located approximately 775 feet upgradient from GWC-31. Copper concentrations in samples from GWA-29 have ranged from 0.0044 to 0.018 mg/L with a mean concentration of 0.0087 mg/L. The mean concentration for GWA-29 is greater than the SSI concentration of 0.0063 mg/L reported in the September 2019 sample from GWC-31. Therefore, the SSI at GWC-31 is attributed to the upgradient background source.

SSIs were reported for nickel at one location (GWC-6) and zinc at four locations (GWC-6, GWC-14, GWC-25, and GWC-31). Although these concentrations are above site-wide averages, they are within the maximum ranges of site-wide occurrence in background. Except for GWC-14, there are no detections of boron in the samples with nickel and zinc SSIs. For wells GWC-6, GWC-25, and GWC-31 the wells are likely installed in a localized zone of higher than site average nickel and zinc concentrations. The recent concentrations are slightly higher than historical levels due to natural variability unaccounted for in the intra-well background data set and unrelated to the unit.

Review of the background concentrations and ranges at which they occur demonstrate that concentrations observed in downgradient wells are within the range of expected naturally occurring concentrations.

2.4 Previous ASDs Documenting the Occurrence of Metals in Site Lithologies

Previously completed ASDs have extensively documented the natural occurrence of metals at the site. Seven rock samples were submitted for laboratory analysis as part of the Wansley Ash Pond ASD (ACC, 2019). The samples were collected from a variety of site lithologies including amphibolite, gneiss, schist, and quartzite and analyzed for compositional characteristics including trace metal concentrations. A summary of the frequency of detection and concentration range of relevant metals in rock samples is provided in Table 4, Summary of Metals Detections in Lithologic Samples. The 2017 ASD included in Appendix B provides detailed descriptions of the Site lithologies. The lithologies present at Wansley Landfill are depicted in Figure 5, Geologic Map.

Based on a review of the Wansley Ash Pond ASD data, except for nickel, the metals that resulted in September 2019 SSIs are present in a majority of the rock samples. The Wansley Ash Pond ASD also included data showing that, although the trace metals are largely incorporated in silicate minerals, there is a degree of silicate mineral solubility that provides a mechanism to mobilize trace metals to groundwater. The wide-spread occurrence of trace metals in background samples (upgradient at Plant Wansley Ash and Plant Wansley Landfill and pre-waste placement at Plant Wansley Landfill) collected at the Site further confirms a degree of mineral solubility under background conditions. The metals with one or more SSIs represent only a small percentage of silicate mineral composition by weight, however given that detected concentrations are at levels in the low micrograms per liter ($\mu\text{g/L}$) range native mineral solubility is a viable mechanism for the metals to occur in groundwater.

Table 4. Summary of Metals Detections in Lithologic Samples

Constituent	Detection Frequency in Rock Samples
Barium	Detected in 7 of 7 site rock samples with a compositional range of 0.007 to 0.127 %
Chromium	Detected in 6 of 7 site rock samples with a compositional range of 0.002 to 0.0078 %
Copper	Detected in 4 of 7 site rock samples with a compositional range of 0.0035 to 0.007 %
Nickel	Not detected in rock samples (see note 2)
Zinc	Detected in 6 of 7 site rock samples with a compositional range of 0.003 to 0.0121 %

Notes:

1. Rock samples collected for Wansley Ash Pond ASD (ACC, 2019)
2. Nickel has been detected in 18.0% of site background groundwater samples and therefore occurs to some degree in site lithologies. Lack of detections in rock samples tested possibly due to the localized occurrence of nickel at the site.

As demonstrated in previous ASDs, natural earth materials at the site are a viable source for the metals detected in upgradient and downgradient wells at the site.

2.5 Review of Field and Equipment Blank Data

Four field blanks and four equipment blanks were collected during the September 2019 monitoring event (frequency of approximately one per 10 groundwater samples). Field and equipment blanks are prepared using prepackaged ASTM Type I reagent grade water, this water has a maximum specific conductance of 0.056 milliSiemens per centimeter ($\mu\text{S}/\text{cm}$) and is free of detectable metals concentrations. Therefore, any detections of metals in sample blanks are a function of handling in the field or are introduced by the laboratory either during sample preparation or as an error in analysis.

A field blank is prepared by filling a set of sample containers with pre-packaged ASTM Type I water and treating it as a groundwater sample (i.e., maintaining the sample in the same cooler as routine groundwater samples). Equipment blanks are samples obtained by running ASTM Type I water through decontaminated sample collection equipment (bailer, pump, etc.) and into the appropriate sample containers for analysis. Laboratory analytical results and data validation of equipment and field blanks collected in September 2019 are presented in the 2019 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2020) and summarized on Table 5, Summary of Field and Equipment Blank Sample Results. As shown in Table 5, there were multiple detections of barium, chromium, and zinc in the blank samples. Copper and nickel were not detected in the blank samples.

In the case of chromium, the trace level concentrations reported in blank samples are sufficient to be the entire cause of all seven SSIs. The maximum blank sample concentration of 0.0025 mg/L is more than half of the maximum detected chromium level of 0.0049 mg/L reported in the GWC-6 sample. If the maximum blank concentration were to be subtracted from any of the chromium SSI concentrations, the level would be less than the statistical limit of 0.0025 mg/L (all seven locations have the same intra-well limit). Additionally, the maximum blank concentrations for barium in the GWC-16, GWC-18, and GWC-34 samples and zinc in the GWC-25 sample are enough to fully account for the SSIs if subtracted from the respective reported concentrations. For other barium and zinc SSIs the occurrence of the metals in blank samples indicate that sampling procedures may be a contributing factor to the SSI concentration.

Table 5. Summary of Field and Equipment Blank Sample Results

Blank ID	Barium	Chromium	Copper	Nickel	Zinc
EB-1	0.0030	0.0025	<0.002	<0.001	0.0047 J
EB-2	<0.010	0.0019 J	<0.002	<0.001	0.0037 J
EB-3	<0.010	<0.002	<0.002	<0.001	0.0051
EB-4	<0.010	<0.002	<0.002	<0.001	0.0021 J
FB-1	0.0018	0.002	<0.002	<0.001	0.0032 J

Blank ID	Barium	Chromium	Copper	Nickel	Zinc
FB-2	<0.010	0.0024	<0.002	<0.001	<0.0050
FB-3	<0.010	<0.002	<0.002	<0.001	0.0037 J
FB-4	<0.010	<0.002	<0.002	<0.001	0.0099
Frequency of Detection in Blank Samples	25 %	50 %	ND	ND	87.5 %
Maximum Concentration in Blank Samples	0.0030 mg/L	0.0025 mg/L	ND	ND	0.0099 mg/L

Notes:

1. Units are milligrams per liter (mg/L).
2. < indicates concentration not detected at or above the reporting limit.
3. "J" indicates the substance was detected at a low-level less than the precision of the laboratory instrument. The value shown is qualified as an estimated value.
4. ND indicates not detected.
5. EB indicates equipment blank.
6. FB indicates field blank.

Review of the blank data provides additional information indicating that sampling or analytical induced variability has also contributed to metal detections and subsequent SSIs during this monitoring event.

3.0 Summary and Recommendations

Based on the information presented in this ASD, the metal SSIs presented in the 2019 Annual Groundwater Monitoring and Corrective Action Report are not attributed to a release from the CCR Landfill. The SSIs are likely primarily the result of natural variation in groundwater quality not fully accommodated by the intra-well statistical analysis methods. Additional factors include introduction of trace level concentrations during sampling process (based on detections in blank samples) and in the case of GWC-14 a previously address operational issue unrelated to the integrity of landfill liner. Therefore, Plant Wansley CCR Landfill will remain in detection monitoring. Detection monitoring results will continue to be presented in Annual and Semiannual Groundwater Monitoring and Corrective Action Reports. An overall summary of the ASD review is provided in Table 6, ASD Review Summary.

Table 6. ASD Review Summary

Location	Metal	Lithologic Unit	Concentration (mg/L)	Intra-Well Prediction Limit	Site-Wide Background Maximum	Concentration Below Background Maximum	Field/Equipment Blank Detections Potentially Account for SSI?
GWC-5	Chromium	Sheared Button Schist (OZbs)	0.0033	0.0025	0.012	Yes	Yes
GWC-6	Barium	Amphibolite (OZa)	0.074	0.068	0.27	Yes	No
GWC-6	Chromium	Amphibolite (OZa)	0.0049	0.0025	0.012	Yes	Yes
GWC-6	Nickel	Amphibolite (OZa)	0.0099	0.0072	0.019	Yes	N/A
GWC-6	Zinc	Amphibolite (OZa)	0.049	0.005	0.11	Yes	No
GWC-13	Chromium	Biotite Gneiss (OZbg)	0.0027	0.0025	0.012	Yes	Yes
GWC-14	Barium	Biotite Gneiss (OZbg)	0.32	0.12	0.27	No	No
GWC-14	Zinc	Biotite Gneiss (OZbg)	0.019	0.013	0.11	Yes	No
GWC-16	Barium	Biotite Gneiss (OZbg)	0.020	0.019	0.27	Yes	Yes
GWC-18	Barium	Amphibolite (OZa)	0.040	0.038	0.27	Yes	Yes
GWC-20	Chromium	Biotite Gneiss (OZbg)	0.0027	0.0025	0.012	Yes	Yes
GWC-25	Barium	Sheared Button Schist (OZbs)	0.056	0.052	0.27	Yes	No
GWC-25	Zinc	Sheared Button Schist (OZbs)	0.037	0.029	0.11	Yes	Yes
GWC-26	Chromium	Sheared Button Schist (OZbs)	0.0033	0.0025	0.012	Yes	Yes
GWC-31	Copper	Long Island Gneiss (OZli)	0.0063	0.0048	0.018	Yes	N/A
GWC-31	Zinc	Long Island Gneiss (OZli)	0.081	0.038	0.11	Yes	No
GWC-34	Barium	Sheared Button Schist (OZbs)	0.014	0.013	0.27	Yes	Yes
GWC-34	Chromium	Sheared Button Schist (OZbs)	0.0034	0.0025	0.012	Yes	Yes
GWC-35	Chromium	Sheared Button Schist (OZbs)	0.0026	0.0025	0.012	Yes	Yes

Notes:

1. Concentration data from September 2019
2. mg/L = milligrams per liter
3. Intra-well statistical limit = intra-prediction limit (i.e. SSI threshold)
4. Site-wide Background Maximum is the highest concentration reported in the pooled upgradient data set and pre-waste placement sample set
5. N/A = Not Applicable. Not detected in any blank sample

4.0 References

ACC, Inc. *Supplemental First 2019 Semiannual Groundwater Monitoring and Corrective Action Report*, Plant Wansley CCR Landfill, 2018.

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Southern Company Generation Engineering and Construction Services, Design and Operation Plans, Plant Wansley Coal Combustion By-Product Disposal Facility, 2012.

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U.S. Environmental Protection Agency. *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities*. 2015.

U.S. Geological Survey, National Database, <http://tin.er.usgs.gov/geochem>.

FIGURES



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PROJECT:
PLANT WANSLEY CCR LANDFILL

1371 LIBERTY CHURCH ROAD
 CARROLLTON, GEORGIA

REVISIONS

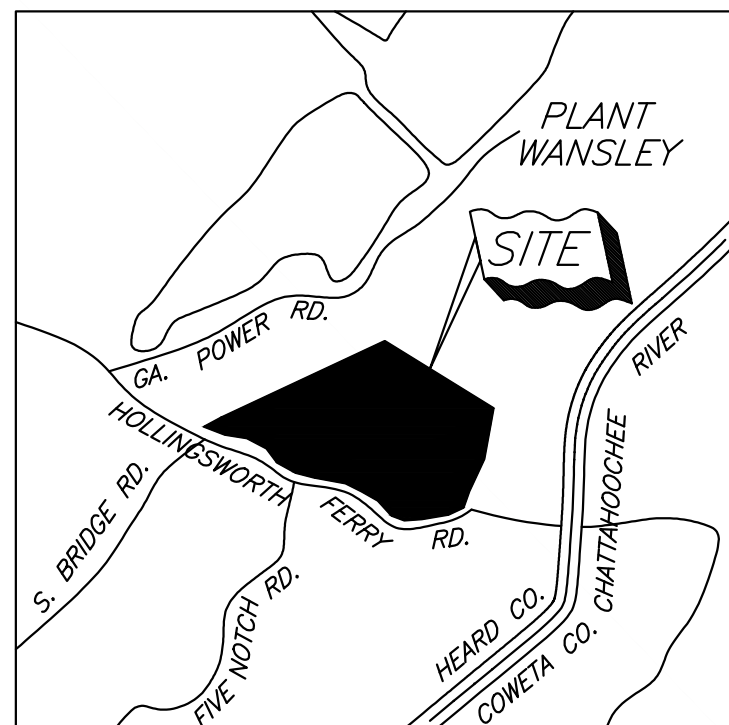
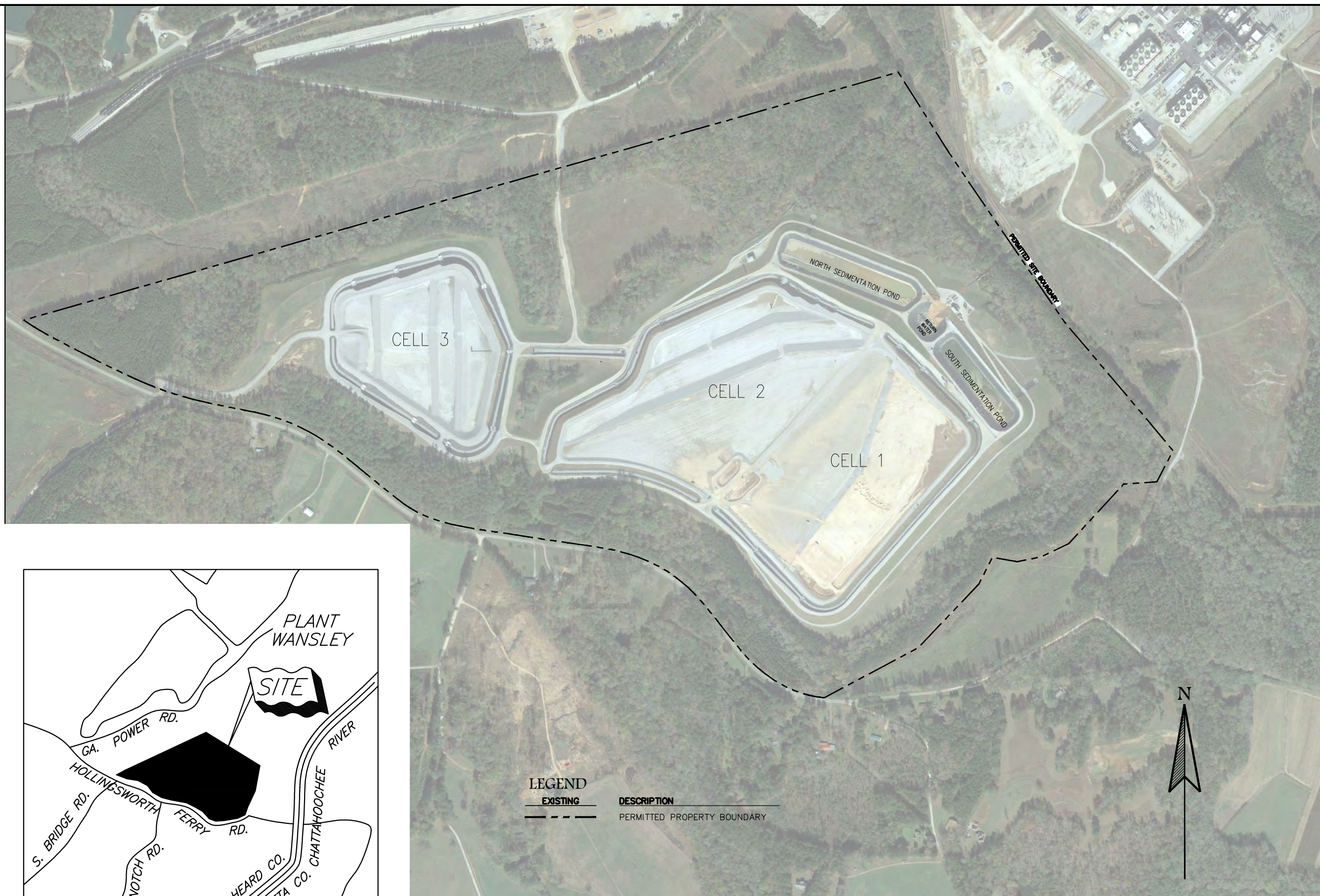
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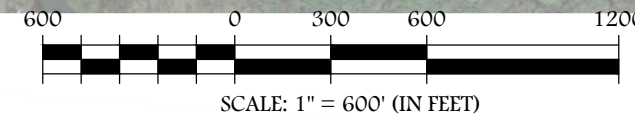
PROJECT NUMBER:
I054-110
 April 2020

SITE MAP

FIGURE **1**



LOCATION MAP





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PROJECT:
PLANT WANSLEY CCR LANDFILL

1371 LIBERTY CHURCH ROAD
 CARROLLTON, GEORGIA

REVISIONS

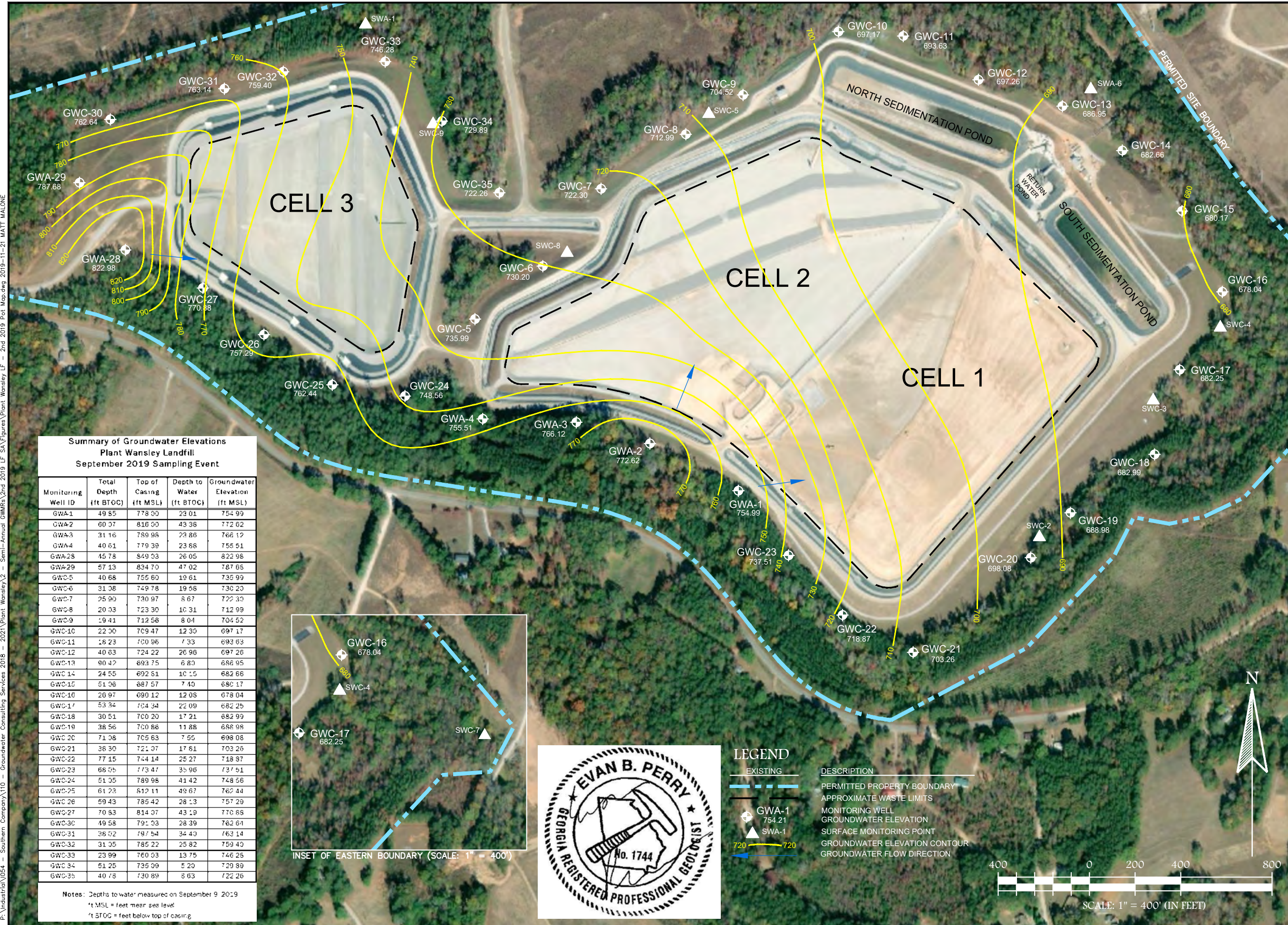
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 I054-110
 April 2020

SEPTEMBER 2019 POTENTIOMETRIC SURFACE MAP

FIGURE 2



**Summary of Groundwater Elevations
 Plant Wansley Landfill
 September 2019 Sampling Event**

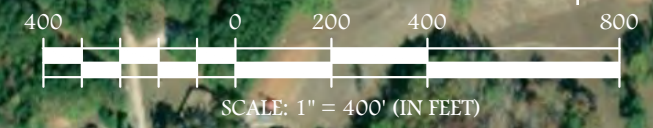
Monitoring Well ID	Total Depth (ft BTOC)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
GWA-1	49.55	778.00	23.01	754.99
GWA-2	60.07	816.00	43.36	772.62
GWA-3	31.16	789.98	23.86	766.12
GWA-4	40.61	779.39	23.66	755.51
GWA-28	45.78	849.03	26.05	822.98
GWA-29	57.13	834.70	47.02	787.68
GWC-5	40.68	755.60	19.61	735.99
GWC-6	31.08	749.78	19.56	730.20
GWC-7	25.90	730.97	8.67	722.30
GWC-8	20.03	723.30	10.31	712.99
GWC-9	19.41	712.56	8.04	704.52
GWC-10	22.30	709.47	12.30	697.17
GWC-11	16.23	700.96	7.33	693.63
GWC-12	40.63	724.22	26.96	697.26
GWC-13	90.47	693.75	6.80	686.95
GWC-14	24.55	692.61	10.15	682.66
GWC-15	51.96	687.57	7.40	680.17
GWC-16	26.97	690.12	12.08	678.04
GWC-17	53.34	704.34	22.09	682.25
GWC-18	30.51	700.20	17.21	682.99
GWC-19	38.56	700.88	11.88	688.98
GWC-20	71.08	705.63	7.55	698.08
GWC-21	36.30	721.07	17.61	703.26
GWC-22	77.15	744.14	25.27	718.87
GWC-23	66.05	773.47	35.96	737.51
GWC-24	51.05	789.98	41.42	748.56
GWC-25	61.23	812.11	49.67	762.44
GWC-26	59.43	785.42	28.13	757.29
GWC-27	70.83	814.07	43.19	770.88
GWC-30	49.58	791.03	28.39	762.64
GWC-31	36.02	797.54	34.40	763.14
GWC-32	31.05	785.22	25.82	759.40
GWC-33	23.99	760.03	13.75	746.28
GWC-34	51.25	735.09	5.20	729.89
GWC-35	40.78	730.89	5.63	722.26

Notes: Depths to water measured on September 9 2019
 †ft MSL = feet mean sea level
 †ft BTOC = feet below top of casing



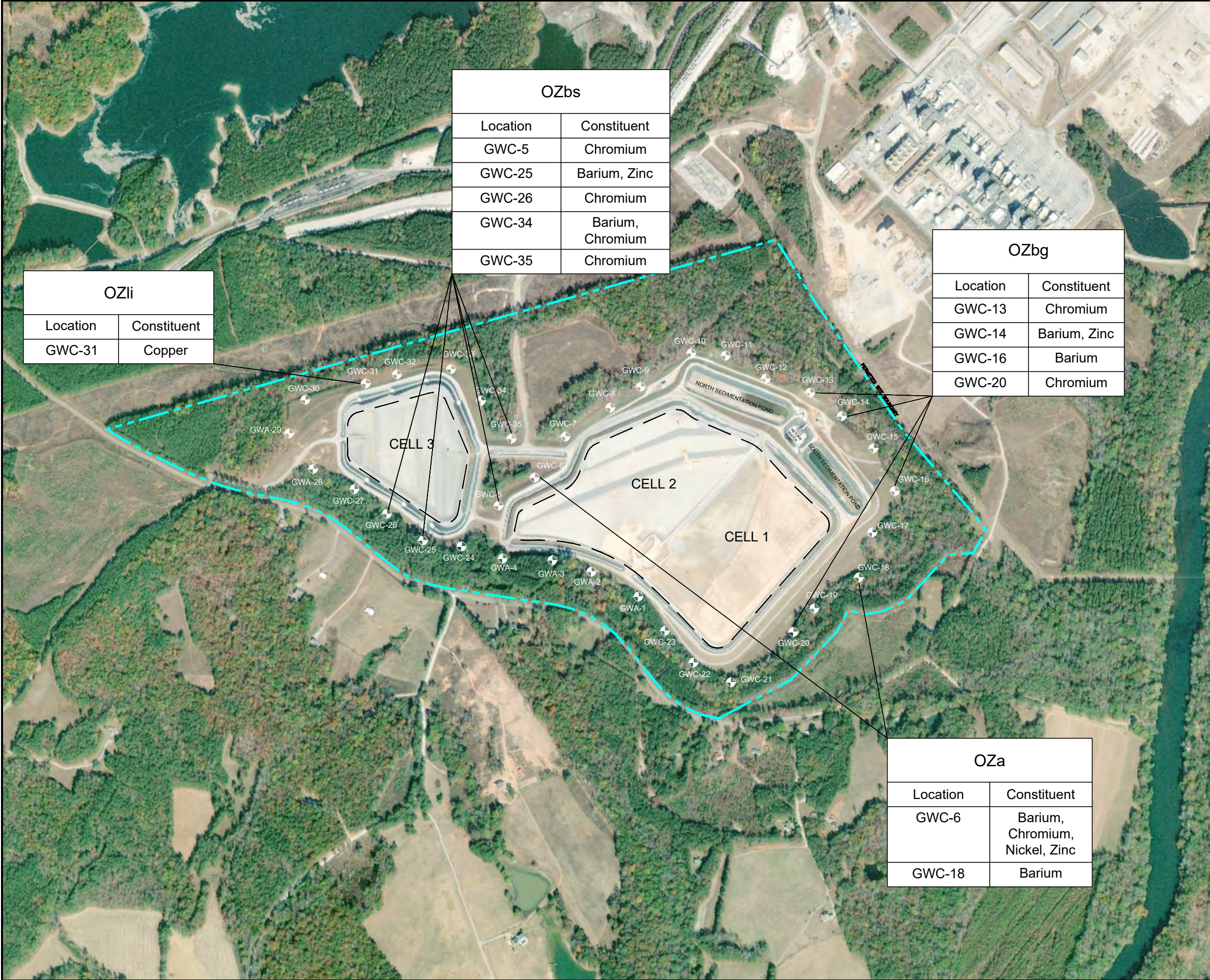
LEGEND

EXISTING	DESCRIPTION
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	MONITORING WELL GROUNDWATER ELEVATION
	SURFACE MONITORING POINT
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION



P:\Industrial\054 - Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - Semi-Annual GWRs\2nd 2019 LF SA\Figures\Plant Wansley LF - 2nd 2019 Pot. Map.dwg 2019-11-21 MATT MALONE

\\ATLANTA\Projects\Industrial\Southern Company\110-Grondwater Consulting Services\Plant Wansley\ASD\Landfill\2020 Landfill State Metals ASD\GWC\Plant Wansley LF - SSI Callout Map.dwg 4/15/20 EVAN PERRY

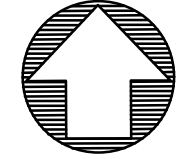


OZbs	
Location	Constituent
GWC-5	Chromium
GWC-25	Barium, Zinc
GWC-26	Chromium
GWC-34	Barium, Chromium
GWC-35	Chromium

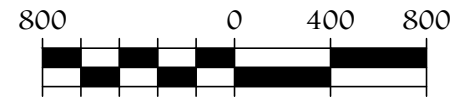
OZli	
Location	Constituent
GWC-31	Copper

OZbg	
Location	Constituent
GWC-13	Chromium
GWC-14	Barium, Zinc
GWC-16	Barium
GWC-20	Chromium

OZa	
Location	Constituent
GWC-6	Barium, Chromium, Nickel, Zinc
GWC-18	Barium



ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	AMPHIBOLITE (OZa)
	BIOTITE GNEISS (OZbg)
	SHEARED BUTTON SCHIST (OZbs)
	LONG ISLAND CREEK GNEISS (OZli)
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	GROUNDWATER MONITORING WELL

PROJECT



GEORGIA POWER COMPANY
PLANT WANSLEY LANDFILL

SSI CALLOUT MAP

PROJECT NO. I054-110

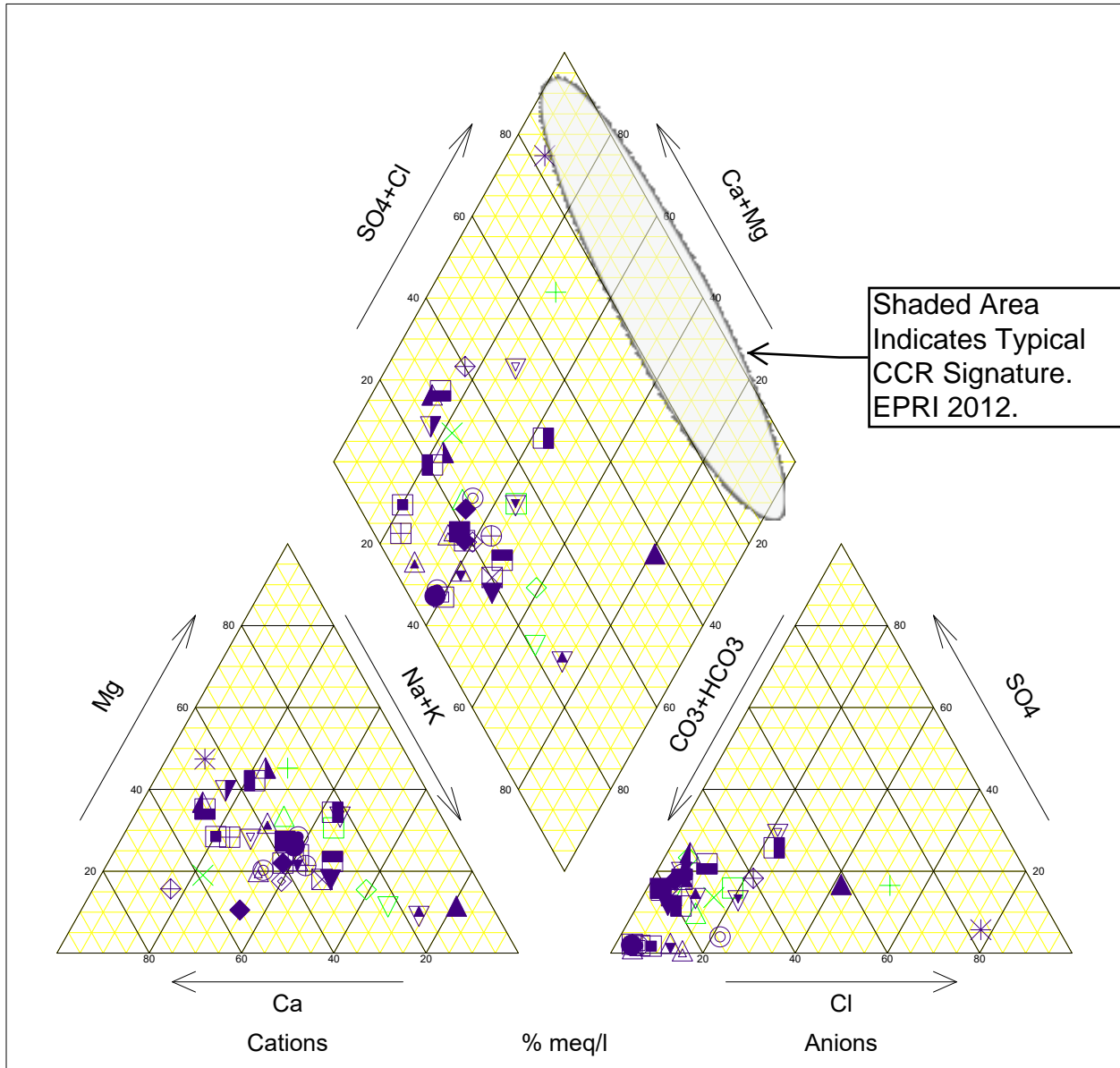
MARCH 2020

DRAWN BY: RW

FIGURE:

CHECKED BY: EP

Figure 4A - Tri-Linear Diagram

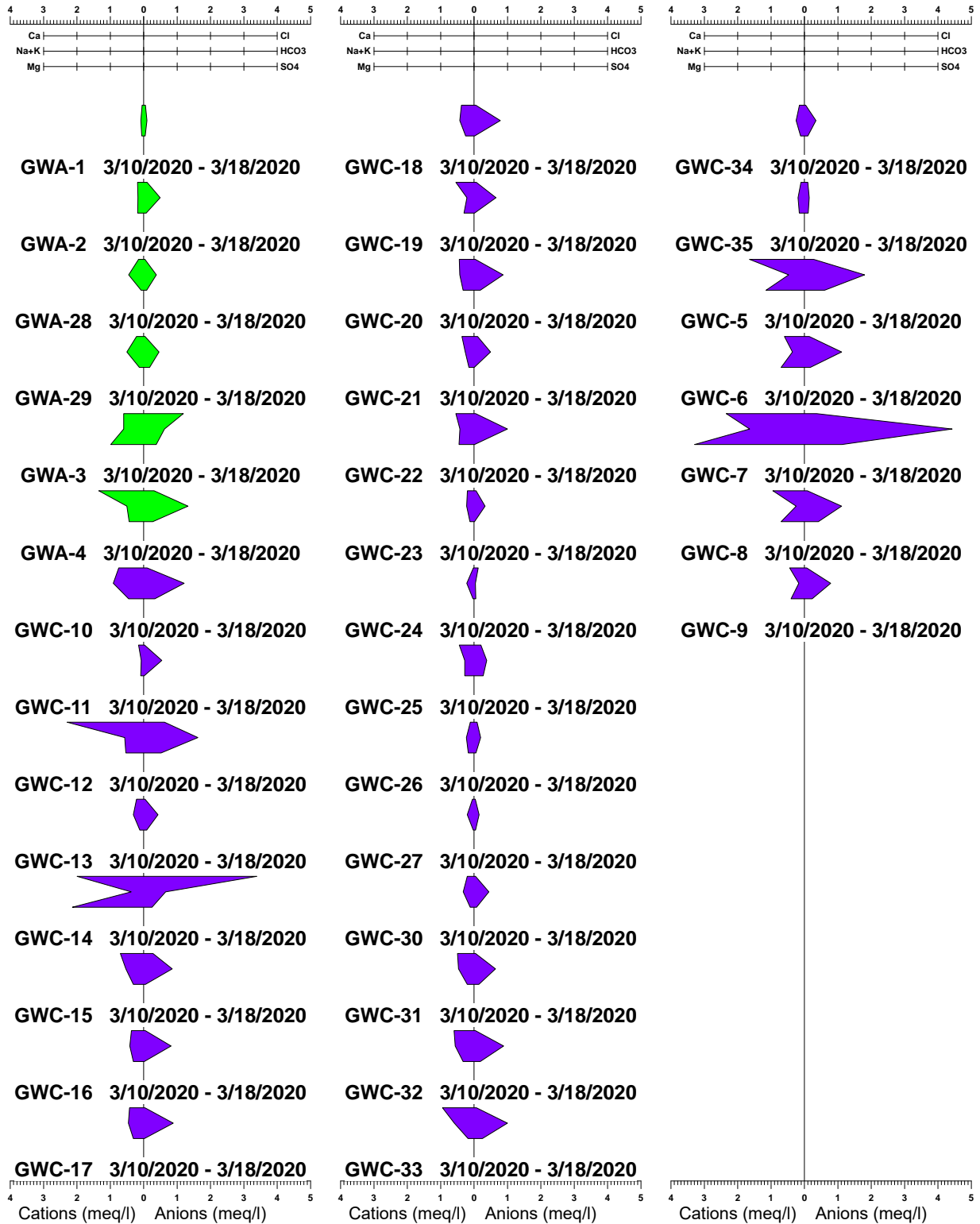


□ GWA-1	3/10/2020 - 3/18/2020	⊙ GWC-16	3/10/2020 - 3/18/2020	▼ GWC-30	3/10/2020 - 3/18/2020
△ GWA-2	3/10/2020 - 3/18/2020	● GWC-17	3/10/2020 - 3/18/2020	◇ GWC-31	3/10/2020 - 3/18/2020
▽ GWA-28	3/10/2020 - 3/18/2020	□ GWC-18	3/10/2020 - 3/18/2020	◆ GWC-32	3/10/2020 - 3/18/2020
◇ GWA-29	3/10/2020 - 3/18/2020	▣ GWC-19	3/10/2020 - 3/18/2020	◈ GWC-33	3/10/2020 - 3/18/2020
+ GWA-3	3/10/2020 - 3/18/2020	■ GWC-20	3/10/2020 - 3/18/2020	▤ GWC-34	3/10/2020 - 3/18/2020
× GWA-4	3/10/2020 - 3/18/2020	▲ GWC-21	3/10/2020 - 3/18/2020	▥ GWC-35	3/10/2020 - 3/18/2020
⊕ GWC-10	3/10/2020 - 3/18/2020	△ GWC-22	3/10/2020 - 3/18/2020	▦ GWC-5	3/10/2020 - 3/18/2020
⊞ GWC-11	3/10/2020 - 3/18/2020	▲ GWC-23	3/10/2020 - 3/18/2020	▧ GWC-6	3/10/2020 - 3/18/2020
⊟ GWC-12	3/10/2020 - 3/18/2020	▲ GWC-24	3/10/2020 - 3/18/2020	▨ GWC-7	3/10/2020 - 3/18/2020
⊠ GWC-13	3/10/2020 - 3/18/2020	▽ GWC-25	3/10/2020 - 3/18/2020	▩ GWC-8	3/10/2020 - 3/18/2020
⊡ GWC-14	3/10/2020 - 3/18/2020	▽ GWC-26	3/10/2020 - 3/18/2020	▫ GWC-9	3/10/2020 - 3/18/2020
⊢ GWC-15	3/10/2020 - 3/18/2020	▽ GWC-27	3/10/2020 - 3/18/2020		

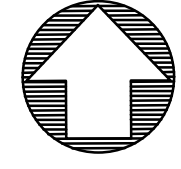
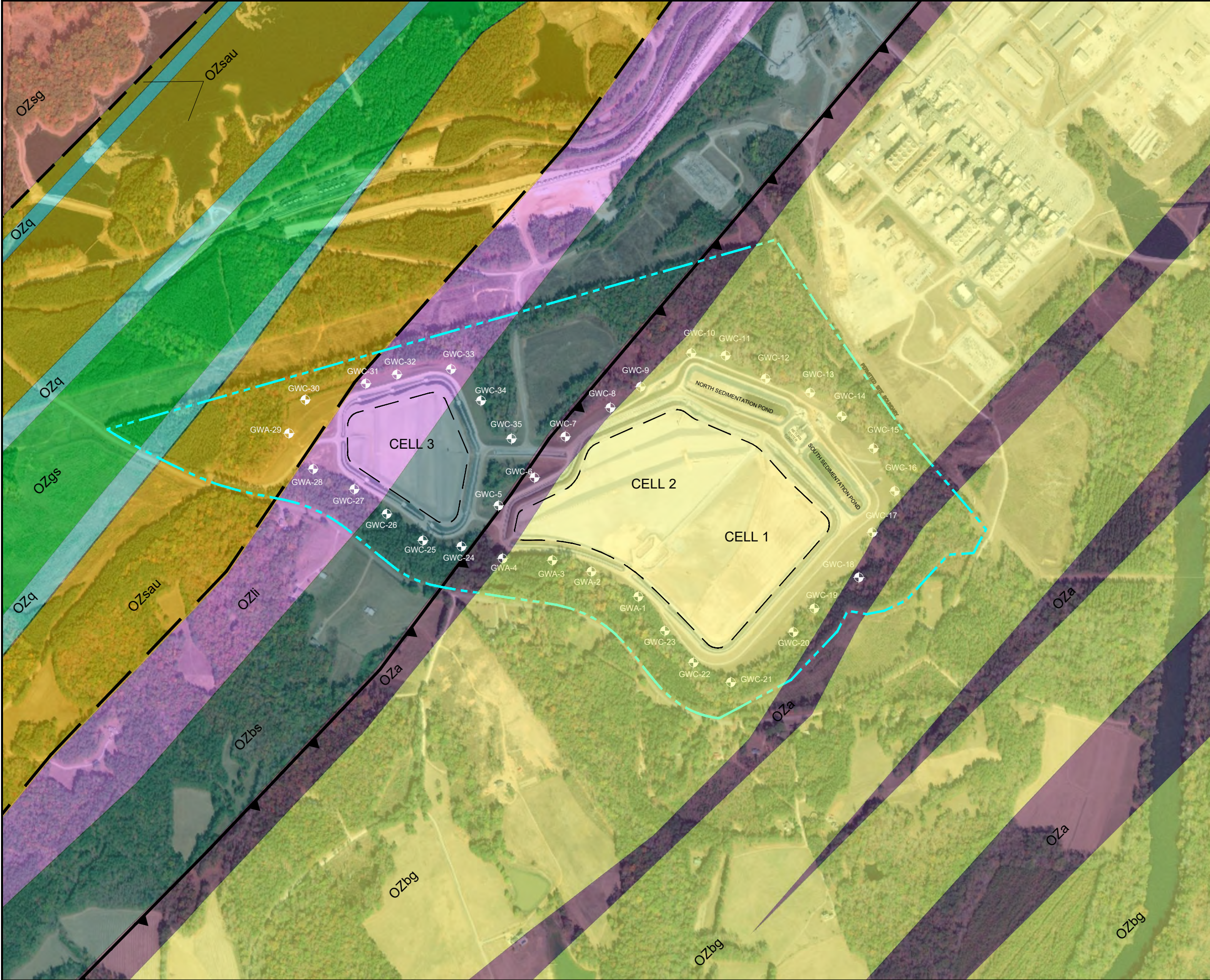
Source: *Groundwater Quality Signatures by Assessing Potential Impacts from Coal Combustion Product Leachate*, EPRI 2012 Technical Report

Prepared by: Atlantic Coast Consulting, Inc.

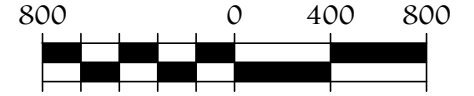
Figure 4B - Plant Wansley Landfill Stiff Diagrams



F:\Users\jvbs\Southern Company\110-Geonwater Consulting Services\Plant Wansley\ASD\Landfill 2020 Landfill State Metals ASD\GWC\Plant Wansley LF - Site Geologic Map.dwg 3/16/20 RYAN WALGER













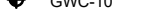


ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	AMPHIBOLITE (OZa)
	BIOTITE GNEISS (OZbg)
	GARNET SCHIST (OZgs)
	LONG ISLAND CREEK GNEISS (OZli)
	QUARTZITE (OZq)
	SCHIST AMPHIBOLITE (OZsau)
	SHEARED BUTTON SCHIST (OZbs)
	MUSCOVITE SCHIST (OZsg)
	STRIKE-SLIP FAULT
	THRUST FAULT
	PERMITTED PROPERTY BOUNDARY
	APPROXIMATE WASTE LIMITS
	GROUNDWATER MONITORING WELL



PROJECT
Georgia Power
 GEORGIA POWER COMPANY
 PLANT WANSLEY CCR LANDFILL
 GEOLOGIC MAP

PROJECT NO. I054-110	APRIL 2020
DRAWN BY: RW	FIGURE:
CHECKED BY: EP	5

APPENDIX A – Rock Sample Analysis



June 26, 2018

Service Request No:T1800765

Evan Perry
Atlantic Coast Consulting
630 Colonial Park Drive, Suite 100
Roswell, GA 30075

Laboratory Results for: Plant Wansley AP

Dear Evan,

Enclosed are the results of the sample(s) submitted to our laboratory May 03, 2018
For your reference, these analyses have been assigned our service request number **T1800765**.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Ralph Poulsen

ADDRESS 3860 S. Palo Verde Road, Suite 302, Tucson, AZ 85714
PHONE +1 520 573 1061 | FAX +1 520 573 1063
ALS Group USA, Corp.
dba ALS Environmental

Client: Atlantic Coast Consulting
Project: Plant Wansley AP/1054-110 Wansley Task 6

Service Request:T1800765

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
T1800765-001	APD-5D-Qtzite-90-91	5/1/2018	1330
T1800765-002	APC-6D-Sch/Gn-33-34	5/1/2018	1335
T1800765-003	APC-6D-Maf Gn-47-48	5/1/2018	1340
T1800765-004	PB-3-LI Gneiss-56-57	5/1/2018	1345
T1800765-005	PB-4-LI Gneiss-49-50	5/1/2018	1350
T1800765-006	PB-8-Sch/Amp-123-124	5/1/2018	1355
T1800765-007	PB-9-Sch/Amp-65-66	5/1/2018	1400



ALS Environmental - Tucson
 ADDRESS 3860 S. Palo Verde Road, Suite 302, Tucson, AZ 85714
 PHONE +1 520 573 1061 FAX +1 520 573 1063
 ALS Group

Chain of Custody

Work Order No.:

T1800765
 Atlantic Coast Consulting
 Plant Wansley AP


5

Project Manager: Evan Perry
 Client Name: Atlantic Coast Consulting, Inc.
 Address: 630 Colonial Park Drive
 City, State ZIP: Roswell, GA 30075
 Email: eperry@atlcc.net
 Project Name: Plant Wansley AP
 Project Number: 1054-110 Wansley Task 6
 P.O. Number:
 Sampler's Name: Evan Perry
 Phone: 770-312-9899

Bill to:
 Company: Atlantic Coast Consulting, Inc.
 Address: 630 Colonial Park Drive
 City, State ZIP: Roswell, GA 30075
 Email: eperry@atlcc.net
 Phone: 770-312-9899

SAMPLE RECEIPT
 Temperature (C):
 Received Intact:
 Cooler Custody Seals:
 Sample Custody Seals:
 Temp Blank Present
 Wet Ice / Blue Ice
 Total Containers

REQUESTED ANALYSIS
 No. of Containers
 Prep Grind <1 mm - D346 / E829
 Moisture. Total - D3173 / E871
 Moisture. KF - D5530 mod
 Ash - D3174 / D1102 / D482
 Heating Value - D5865 / E711 / D4809
 Black Liquor HHV & Solids - T 650 & T684
 Prox (Moist, Ash, VM, FC) - D7582
 Ultimate (CHNOS Ash) - D3176
 Carbon, Total - D6316 / D5373 / E1915
 Carbon, Combustible - D6316
 CHN - D5373 / D5291
 Oxygen - D5373 mod.
 Sulfur, Total - D4239 / E1915 / D1552
 Halogens (Br Cl F) - 5050 / 9056
 Mercury - D6722
 Metals - Ash Analysis - D6349 *
 Metals - Total Dissolution **

TAT
 Routine
 Same Day *
 Next Day *
 3 Day*
 6 Day*
 * Please call for availability. Rush charges will apply.
 Due Date:

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	Comments
APC-5D-Qtzite-90-91	Rock	5/1/2018	1330	001	
APC-6D-Sch/Gn-33-34	Rock	5/1/2018	1335	002	
APC-6D-Maf Gn-47-48	Rock	5/1/2018	1340	003	
PB-3-LI Gneiss-56-57	Rock	5/1/2018	1345	004	
PB-4-LI Gneiss-49-50	Rock	5/1/2018	1350	005	
PB-8-Sch/Amp-123-124	Rock	5/1/2018	1355	006	
PB-9-Sch/Amp-65-66	Rock	5/1/2018	1400	007	

* Metals Ash Analysis - D6349
 ** Metal Scan - Total
 Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, V, Zn, Zr

RELINQUISHED BY
 Print Name: Evan Perry
 Signature: [Signature]
 Date/Time: 05/1/18 / 1615

RECEIVED BY
 Print Name: [Signature]
 Signature: [Signature]
 Date/Time: MAY 03 2018


Additional Methods Available Upon Request



3860 S. Palo Verde Road, Suite 302
 Tucson, AZ 85714
 T: +1 520 573 1061
 F: +1 520 573 1063
 www.alsglobal.com

Sample Receipt Form

T1800765 **5**
 Atlantic Coast Consulting
 Plant Wansley AP



Client/Project: **Atlantic Coast Consulting** Work Order Number:

Received by: **Cynthia Vroegh** Date & Time: **5/3/18 0928** Matrix: **Solid**

Samples were received via?: **FedEx** Samples were received in: **Cooler**

Were custody seals on containers? Yes No NA If yes, how many and where? _____

If present were custody seals intact? Yes No If present, were they signed and dated? Yes No

Arrival Temp C	Temp Blank C	Tracking Number
ambient	na	7721 2724 5454

Packing material used? **Bags** **cardboard**

Did all the bottles arrive in good condition (unbroken)? Yes No NA If No, record comments below

Did all sample labels and tags agree with COC? Yes No NA If No, record discrepancies below

Were all the appropriate containers and volumes received for the tests indicated? Yes No NA

Are samples received deemed acceptable? Yes No

Comments:
 7 - small ziploc bags with ROCK

Notes, discrepancies, & resolutions:

As a part of ISO 17025 protocols, ALS must notify clients that the quoted analytical methods performed by ALS may have minor modifications from the methods as published. These modifications are written into our Standard Operating Procedures and do not impact the quality of the data. Receipt of this document will be considered an acceptance of the procedures used by the laboratory for analysis unless notified by the client. Modifications may include, but are not limited to:

- The analysis of a sample matrix that differs from that stated in the published method (example - ASTM D5865 Standard Test Method for Gross Calorific Value of Coal and Coke is used for other matrices such as biomass, Tire Derived Fuel, etc.).
- Analyzing a sample mass that differs from those in the published method (example - to accommodate samples with high concentrations of analyte, samples of limited volume, or to comply with the instrument manufacturer's operating guidelines).
- Instruments used for the analysis may differ from those listed in the published method (example - using ICP- OES when the method references flame Atomic Absorption Spectroscopy)



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry

Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Sample ID:	Sample Date and Time:	Lab #:		Flourine, Total 5050/9056 As Received mg/kg	Mercury, Total D6722 As Received ppb
APD-5D-Qtzite-90-91	5/1/18	1330	T1800765-001	30	<1
APC-6D-Sch/Gn-33-34	5/1/18	1335	T1800765-002	<5	<1
APC-6D-Maf Gn-47-48	5/1/18	1340	T1800765-003	<5	<1
PB-3-LI Gneiss-56-57	5/1/18	1345	T1800765-004	30	<1
PB-4-LI Gneiss-49-50	5/1/18	1350	T1800765-005	16	<1
PB-8-Sch/Amp-123-124	5/1/18	1355	T1800765-006	<5	<1
PB-9-Sch/Amp-65-66	5/1/18	1400	T1800765-007	<5	<1

Notes:

Samples were air dried then ground to < 60 mesh prior to analysis.



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry
 Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Total Metals in Ash by ICP-OES ASTM D6349	ID	APD-5D-Qtzite-90-91		APC-6D-Sch/Gn-33-34		APC-6D-Maf Gn-47-48	
		Units	T1800765-001	Oxides	T1800765-002	Oxides	T1800765-003
Aluminum	wt %	7.56	Al ₂ O ₃ 14.29	10.68	Al ₂ O ₃ 20.19	8.06	Al ₂ O ₃ 15.23
Barium	wt %	0.13	BaO 0.14	0.04	BaO 0.05	0.08	BaO 0.09
Calcium	wt %	0.80	CaO 1.12	3.36	CaO 4.70	2.09	CaO 2.93
Iron	wt %	1.00	Fe ₂ O ₃ 1.43	5.71	Fe ₂ O ₃ 8.16	4.58	Fe ₂ O ₃ 6.55
Magnesium	wt %	0.18	MgO 0.30	1.55	MgO 2.57	1.13	MgO 1.88
Manganese	wt %	0.01	Mn ₃ O ₄ 0.02	0.11	Mn ₃ O ₄ 0.15	0.08	Mn ₃ O ₄ 0.12
Phosphorus	wt %	0.03	P ₂ O ₅ 0.07	0.08	P ₂ O ₅ 0.18	0.04	P ₂ O ₅ 0.10
Potassium	wt %	4.15	K ₂ O 5.00	1.50	K ₂ O 1.80	2.25	K ₂ O 2.72
Silicon	wt %	32.19	SiO ₂ 68.86	24.39	SiO ₂ 52.16	27.96	SiO ₂ 59.81
Sodium	wt %	2.58	Na ₂ O 3.48	3.55	Na ₂ O 4.78	1.39	Na ₂ O 1.88
Strontium	wt %	0.02	SrO 0.03	0.05	SrO 0.06	0.03	SrO 0.03
Titanium	wt %	0.13	TiO ₂ 0.21	0.80	TiO ₂ 1.33	0.47	TiO ₂ 0.78
Chromium	wt %	0.00	CrO ₄ 0.00	0.01	CrO ₄ 0.02	0.01	CrO ₄ 0.01
Cobalt	wt %	< 0.01	Co ₃ O ₄ 0.00	< 0.01	Co ₃ O ₄ 0.00	< 0.01	Co ₃ O ₄ 0.00
Copper	wt %	< 0.00	CuO 0.00	0.01	CuO 0.01	0.01	CuO 0.01
Zinc	wt %	0.01	ZnO 0.01	0.01	ZnO 0.02	0.01	ZnO 0.01
Vanadium	wt %	0.00	V ₂ O ₅ 0.00	0.02	V ₂ O ₅ 0.03	0.02	V ₂ O ₅ 0.03
Summation	wt %		Total 95.0		Total 96.2		Total 92.2

Note: Values reported on a moisture free wt% of ash

Samples were ashed at 950°C. Approximately 50 mg of ash was digested with HNO₃, HCl and HF acids, neutralized with Boric Acid, and analyzed by ICP-OES. Sulfur and Carbon in ash were analyzed by high-temperature combustion followed by IR detection (ASTM E1915)

Summation of Oxides may not equal 100% due to analytical error and/or elements present in sample but not analyzed. Samples with high concentrations of Carbon (in the form of carbonates) and/or Sulfur can have significant impacts on the metal to oxide calculation and summation.



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry
 Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Total Metals in Ash by ICP-OES ASTM D6349	ID	PB-3-LI Gneiss-56-57		PB-4-LI Gneiss-49-50		PB-8-Sch/Amp-123-124	
		T1800765-004	Oxides	T1800765-005	Oxides	T1800765-006	Oxides
Aluminum	wt %	6.70	Al ₂ O ₃ 12.67	6.80	Al ₂ O ₃ 12.84	7.71	Al ₂ O ₃ 14.57
Barium	wt %	0.01	BaO 0.01	0.02	BaO 0.02	0.06	BaO 0.07
Calcium	wt %	0.51	CaO 0.71	0.26	CaO 0.37	0.88	CaO 1.23
Iron	wt %	0.83	Fe ₂ O ₃ 1.18	0.49	Fe ₂ O ₃ 0.70	4.20	Fe ₂ O ₃ 6.00
Magnesium	wt %	0.08	MgO 0.13	0.05	MgO 0.08	1.19	MgO 1.97
Manganese	wt %	0.04	Mn ₃ O ₄ 0.06	0.02	Mn ₃ O ₄ 0.02	0.05	Mn ₃ O ₄ 0.07
Phosphorus	wt %	< 0.01	P ₂ O ₅ 0.00	< 0.02	P ₂ O ₅ 0.00	0.07	P ₂ O ₅ 0.15
Potassium	wt %	4.08	K ₂ O 4.92	4.88	K ₂ O 5.87	2.61	K ₂ O 3.14
Silicon	wt %	31.67	SiO ₂ 67.74	31.64	SiO ₂ 67.68	29.18	SiO ₂ 62.43
Sodium	wt %	2.60	Na ₂ O 3.50	2.23	Na ₂ O 3.01	1.87	Na ₂ O 2.52
Strontium	wt %	0.00	SrO 0.00	0.00	SrO 0.00	0.01	SrO 0.02
Titanium	wt %	0.08	TiO ₂ 0.13	0.08	TiO ₂ 0.14	0.49	TiO ₂ 0.82
Chromium	wt %	0.00	CrO ₄ 0.00	< 0.00	CrO ₄ 0.00	0.01	CrO ₄ 0.02
Cobalt	wt %	< 0.01	Co ₃ O ₄ 0.00	< 0.01	Co ₃ O ₄ 0.00	< 0.01	Co ₃ O ₄ 0.00
Copper	wt %	< 0.00	CuO 0.00	< 0.00	CuO 0.00	0.00	CuO 0.00
Zinc	wt %	0.00	ZnO 0.00	< 0.00	ZnO 0.00	0.01	ZnO 0.01
Vanadium	wt %	< 0.00	V ₂ O ₅ 0.00	< 0.00	V ₂ O ₅ 0.00	0.01	V ₂ O ₅ 0.02
Summation	wt%		Total 91.1		Total 90.7		Total 93.1

Note: Values reported on a moisture free wt% of ash

Samples were ashed at 950°C. Approximately 50 mg of ash was digested with HNO₃, HCl and HF acids, neutralized with Boric Acid, and analyzed by ICP-OES. Sulfur and Carbon in ash were analyzed by high-temperature combustion followed by IR detection (ASTM E1915)

Summation of Oxides may not equal 100% due to analytical error and/or elements present in sample but not analyzed. Samples with high concentrations of Carbon (in the form of carbonates) and/or Sulfur can have significant impacts on the metal to oxide calculation and summation.



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry
 Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Total Metals in Ash by ICP-OES ASTM D6349	ID	PB-9-Sch/Amp-65-66				
		Units	T1800765-007	Oxides		
Aluminum	wt %	9.03	Al ₂ O ₃	17.06		
Barium	wt %	0.08	BaO	0.09		
Calcium	wt %	0.98	CaO	1.37		
Iron	wt %	5.18	Fe ₂ O ₃	7.41		
Magnesium	wt %	1.44	MgO	2.39		
Manganese	wt %	0.05	Mn ₃ O ₄	0.07		
Phosphorus	wt %	0.07	P ₂ O ₅	0.17		
Potassium	wt %	3.10	K ₂ O	3.74		
Silicon	wt %	29.27	SiO ₂	62.61		
Sodium	wt %	1.71	Na ₂ O	2.31		
Strontium	wt %	0.01	SrO	0.02		
Titanium	wt %	0.56	TiO ₂	0.93		
Chromium	wt %	0.01	CrO ₄	0.02		
Cobalt	wt %	< 0.01	Co ₃ O ₄	0.00		
Copper	wt %	0.01	CuO	0.01		
Zinc	wt %	0.01	ZnO	0.02		
Vanadium	wt %	0.01	V ₂ O ₅	0.02		
Summation	wt %		Total	98.2		

Note: Values reported on a moisture free wt% of ash

Samples were ashed at 950°C. Approximately 50 mg of ash was digested with HNO₃, HCl and HF acids, neutralized with Boric Acid, and analyzed by ICP-OES. Sulfur and Carbon in ash were analyzed by high-temperature combustion followed by IR detection (ASTM E1915)

Summation of Oxides may not equal 100% due to analytical error and/or elements present in sample but not analyzed. Samples with high concentrations of Carbon (in the form of carbonates) and/or Sulfur can have significant impacts on the metal to oxide calculation and summation.



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry
 Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Total Metals by ICP-OES	ID	APD-5D-Qtzite-90-91	APC-6D-Sch/Gn-33-34	APC-6D-Maf Gn-47-48	PB-3-LI Gneiss-56-57	PB-4-LI Gneiss-49-50
		Units	T1800765-001	T1800765-002	T1800765-003	T1800765-004
Aluminum	Wt%	7.564	10.683	8.058	6.704	6.795
Antimony	Wt%	< 0.010	< 0.010	< 0.026	< 0.010	< 0.023
Arsenic	Wt%	< 0.002	< 0.002	< 0.005	< 0.002	< 0.005
Barium	Wt%	0.127	0.044	0.080	0.007	0.015
Beryllium	Wt%	< 0.000	< 0.000	< 0.001	0.001	< 0.001
Cadmium	Wt%	< 0.001	< 0.001	< 0.003	< 0.001	< 0.002
Calcium	Wt%	0.800	3.357	2.092	0.505	0.262
Chromium	Wt%	0.002	0.007	0.006	0.002	< 0.002
Cobalt	Wt%	< 0.005	< 0.005	< 0.013	< 0.005	< 0.012
Copper	Wt%	< 0.001	0.006	0.007	< 0.001	< 0.002
Iron	Wt%	0.998	5.708	4.584	0.825	0.491
Lead	Wt%	0.003	< 0.002	< 0.005	0.003	< 0.005
Lithium	Wt%	0.003	< 0.003	< 0.008	< 0.003	< 0.007
Magnesium	Wt%	0.184	1.549	1.135	0.077	0.047
Manganese	Wt%	0.014	0.111	0.084	0.044	0.017
Molybdenum	Wt%	< 0.010	< 0.010	< 0.026	< 0.010	< 0.023
Nickel	Wt%	< 0.005	< 0.005	< 0.013	< 0.005	< 0.012
Phosphorus	Wt%	0.030	0.078	0.045	< 0.010	< 0.023
Potassium	Wt%	4.154	1.498	2.255	4.081	4.877
Selenium	Wt%	< 0.005	< 0.005	< 0.013	< 0.005	< 0.012
Silicon	Wt%	32.190	24.385	27.961	31.667	31.637
Sodium	Wt%	2.583	3.549	1.392	2.597	2.233
Strontium	Wt%	0.022	0.051	0.027	0.003	0.004
Thallium	Wt%	< 0.052	< 0.052	< 0.064	< 0.054	< 0.059
Tin	Wt%	< 0.002	< 0.002	< 0.005	< 0.002	< 0.005
Titanium	Wt%	0.126	0.797	0.468	0.080	0.082
Vanadium	Wt%	0.001	0.016	0.015	< 0.001	< 0.002
Zinc	Wt%	0.007	0.012	0.010	0.003	< 0.005
Zirconium	Wt%	0.016	0.023	0.010	0.008	0.010

Note: Values reported on an as received basis.



Client: Atlantic Coast Consulting
 630 Colonial Park Drive, Suite 100
 Roswell, GA 30075

Attn: Evan Perry
 Project: Plant Wansley AP

Date Received: May 3, 2018

Certificate of Analysis

Total Metals by ICP-OES	ID	PB-8-Sch/Amp-123-124	PB-9-Sch/Amp-65-66			
	Units	T1800765-006	T1800765-007			
Aluminum	Wt%	7.7133	9.0273			
Antimony	Wt%	< 0.0107	< 0.0106			
Arsenic	Wt%	< 0.0021	< 0.0021			
Barium	Wt%	0.0621	0.0765			
Beryllium	Wt%	< 0.0003	< 0.0003			
Cadmium	Wt%	< 0.0011	< 0.0011			
Calcium	Wt%	0.8794	0.9796			
Chromium	Wt%	0.0078	0.0076			
Cobalt	Wt%	< 0.0053	< 0.0053			
Copper	Wt%	0.0035	0.0057			
Iron	Wt%	4.1985	5.1843			
Lead	Wt%	< 0.0021	< 0.0021			
Lithium	Wt%	0.0116	0.0063			
Magnesium	Wt%	1.1887	1.4433			
Manganese	Wt%	0.0503	0.0524			
Molybdenum	Wt%	< 0.0107	< 0.0106			
Nickel	Wt%	< 0.0053	< 0.0053			
Phosphorus	Wt%	0.0675	0.0727			
Potassium	Wt%	2.6055	3.1012			
Selenium	Wt%	< 0.0053	< 0.0053			
Silicon	Wt%	29.1831	29.2699			
Sodium	Wt%	1.8700	1.7118			
Strontium	Wt%	0.0132	0.0138			
Thallium	Wt%	< 0.0517	< 0.0527			
Tin	Wt%	< 0.0021	< 0.0021			
Titanium	Wt%	0.4937	0.5585			
Vanadium	Wt%	0.0109	0.0125			
Zinc	Wt%	0.0115	0.0121			
Zirconium	Wt%	0.0170	0.0188			

Note: Values reported on an as received basis.



Subcontracted Work
ALS Environmental - Ft. Collins, Colorado



Monday, June 18, 2018

Ralph Poulsen
ALS Environmental
3860 S. Palo Verde Rd.
Tucson, AZ 85714

Re: ALS Workorder: 1805279
Project Name:
Project Number: T1800765

Dear Mr. Poulsen:

Seven solid samples were received from ALS Environmental, on 5/14/2018. The samples were scheduled for the following analysis:

Gamma Spectroscopy

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Jeff R. Kujawa
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1805279

Gamma Spectroscopy:

The samples were analyzed for the presence of gamma emitting radionuclides according to the current revision of SOP 713 .

These samples were prepared according to the current revision of SOP 739. The samples were sealed in steel cans and stored for at least 21 days prior to analysis.

Activity concentrations above the calculated MDC are reported in some instances where minimum nuclide identification criteria are not met. Such tentative identifications result when the software attempts to calculate net activity concentrations for analytes where either one or both of the following criteria are not satisfied: the 'diagnostic' peak for a nuclide must be identified above the critical level, or the minimum library peak abundance must be attained. Nuclides not meeting these requirements have been flagged with a "TI" qualifier.

In cases where there are no peaks found in the peak search routine, the software performs a net quantification. This indicates that nuclides are not detected or supported at any level above the reported MDC. Consequently, these nuclides are flagged with an "NQ" qualifier on the final reports. Please refer to the Technical Bulletin Addendum at the end of this report.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1805279

Client Name: ALS Environmental

Client Project Name:

Client Project Number: T1800765

Client PO Number: 56T1800765

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
APD-5D-Qtzite-90-91	1805279-1		SOLID	01-May-18	13:30
APC-6D-Sch/Gn-33-34	1805279-2		SOLID	01-May-18	13:35
APC-6D-Maf Gn-47-48	1805279-3		SOLID	01-May-18	13:40
PB-3-LI Gnesiss-56-57	1805279-4		SOLID	01-May-18	13:45
PB-4LI Gneiss-49-50	1805279-5		SOLID	01-May-18	13:50
PB-8-Sch/Amp-123-124	1805279-6		SOLID	01-May-18	13:55
PB-9-Sch/Amp-65-66	1805279-7		SOLID	01-May-18	14:00

ALS Environmental Chain of Custody

3860 S. Palo Verde Rd. • Tucson, AZ 85714 • 520-573-1061 • FAX 520-623-9218

ALS Contact: Ralph Poulsen

18052779

Project Number: T1800765
Project Manager: Ralph Poulsen
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample			Lab ID	Gamma Spec 901.1
				Date	Time	Time		
T1800765-001	APD-5D-Quizite-90-91		Solid	5/1/18	1330	Fort Collins ALS	X	
T1800765-002	APC-6D-Sch/Gn-33-34		Solid	5/1/18	1335	Fort Collins ALS	X	
T1800765-003	APC-6D-Maf Gn-47-48		Solid	5/1/18	1340	Fort Collins ALS	X	
T1800765-004	PB-3-LI Gneiss-56-57		Solid	5/1/18	1345	Fort Collins ALS	X	
T1800765-005	PB-4-LI Gneiss-49-50		Solid	5/1/18	1350	Fort Collins ALS	X	
T1800765-006	PB-8-Sch/Amp-123-124		Solid	5/1/18	1355	Fort Collins ALS	X	
T1800765-007	PB-9-Sch/Amp-65-66		Solid	5/1/18	1400	Fort Collins ALS	X	

Special Instructions/Comments Send reports and invoices to: TUC.Reporting@ALSGlobal.com	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 STANDARD Requested FAX Date: _____ Requested Report Date: 05/29/18	Report Requirements I. Results Only _____ II. Results + QC Summaries _____ III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ PQL/MDL/J <u>N</u> EDD <u>N</u>	Invoice Information PO# 56T1800765 Bill to _____
	Test is On Hold P - Test is Authorized for Prep Only		

Relinquished By: *Cynthia Vaughn* Received By: *Kelli-Jean Smith* 
 Date: **MAY 11 2018** 5:14:18 PM
 Job Number: _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS AZ

Workorder No: 1805279

Project Manager: _____

Initials: KGL Date: 5.14.18

1. Does this project require any special handling in addition to standard ALS procedures?	<input type="radio"/>	YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input type="radio"/> DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ___ < green pea ___ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount of sediment: ___ dusting ___ moderate ___ heavy	Amount <input checked="" type="radio"/> N/A	YES	NO
16. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
17. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: #1 #3 #4 <input checked="" type="radio"/> RAD ONLY	YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>44.5</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>11</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 5.14.18

180524

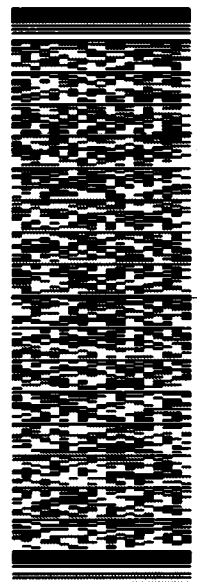
ORIGIN ID: PGAA (250) 573-1061
SAMPLE MANAGEMENT
3860 S PALO VERDE RD
SUITE 302
TUCSON, AZ 85714
UNITED STATES US

SHIP DATE: 11MAY18
ACTWGT: 8.05 LB
CUP: 104583340/NET3980
DIMS: 125XK11 IN
BILL SENDER

TO SAMPLE RECEIPT
ALS FORT COLLINS
225 COMMERCE DRIVE

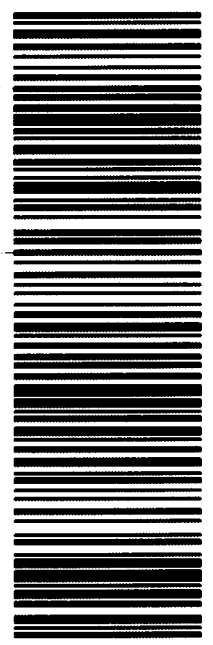
11-0

FORT COLLINS CO 80524
(800) 443-1511 REF: T1800763
NV DEPT



TRK# 7722 1809 6150
0201
TUE - 15 MAY 4:30P
** 2DAY **

ST FTCA
80524
CO-US DEN



552J2782BDC A5

After printing this label:

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Client: ALS Environmental
Project: T1800765
Sample ID: APD-5D-Qtzite-90-91
Legal Location:
Collection Date: 5/1/2018 13:30

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-1
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	3.2 (+/- 0.49)	G	0.45	pCi/g	NA	6/15/2018 06:43
Ra-228	2.73 (+/- 0.59)	G	0.63	pCi/g	NA	6/15/2018 06:43

Client: ALS Environmental
Project: T1800765
Sample ID: APC-6D-Sch/Gn-33-34
Legal Location:
Collection Date: 5/1/2018 13:35

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-2
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results						
			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	1.02 (+/- 0.22)	G	0.32	pCi/g	NA	6/15/2018 08:00
Ra-228	0.95 (+/- 0.31)	LT,G	0.43	pCi/g	NA	6/15/2018 08:00

Client: ALS Environmental
Project: T1800765
Sample ID: APC-6D-Maf Gn-47-48
Legal Location:
Collection Date: 5/1/2018 13:40

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-3
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results						
			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	0.53 (+/- 0.17)	LT,G	0.32	pCi/g	NA	6/15/2018 08:00
Ra-228	0.82 (+/- 0.27)	LT,G	0.39	pCi/g	NA	6/15/2018 08:00

Client: ALS Environmental
Project: T1800765
Sample ID: PB-3-LI Gnesiss-56-57
Legal Location:
Collection Date: 5/1/2018 13:45

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-4
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	4.98 (+/- 0.69)	G	0.49	pCi/g	NA	6/15/2018 08:01
Ra-228	3.38 (+/- 0.68)	G	0.73	pCi/g	NA	6/15/2018 08:01

Client: ALS Environmental
Project: T1800765
Sample ID: PB-4LI Gneiss-49-50
Legal Location:
Collection Date: 5/1/2018 13:50

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-5
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results			SOP 713		Prep Date: 5/25/2018 PrepBy: MRL	
Ra-226	3.49 (+/- 0.48)	G	0.34	pCi/g	NA	6/15/2018 08:01
Ra-228	3.1 (+/- 0.48)	G	0.49	pCi/g	NA	6/15/2018 08:01

Client: ALS Environmental
 Project: T1800765
 Sample ID: PB-8-Sch/Amp-123-124
 Legal Location:
 Collection Date: 5/1/2018 13:55

Date: 18-Jun-18
 Work Order: 1805279
 Lab ID: 1805279-6
 Matrix: SOLID
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results						
			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	1.45 (+/- 0.29)	G	0.37	pCi/g	NA	6/15/2018 08:41
Ra-228	ND (+/- 0.23)	U,G	0.38	pCi/g	NA	6/15/2018 08:41

Client: ALS Environmental
 Project: T1800765
 Sample ID: PB-9-Sch/Amp-65-66
 Legal Location:
 Collection Date: 5/1/2018 14:00

Date: 18-Jun-18
 Work Order: 1805279
 Lab ID: 1805279-7
 Matrix: SOLID
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Gamma Spectroscopy Results			SOP 713		Prep Date: 5/25/2018	PrepBy: MRL
Ra-226	1.29 (+/- 0.26)	G	0.4	pCi/g	NA	6/15/2018 08:41
Ra-228	1.47 (+/- 0.41)	G, TI	0.57	pCi/g	NA	6/15/2018 08:41

Client: ALS Environmental
Project: T1800765
Sample ID: PB-9-Sch/Amp-65-66
Legal Location:
Collection Date: 5/1/2018 14:00

Date: 18-Jun-18
Work Order: 1805279
Lab ID: 1805279-7
Matrix: SOLID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- LT - Result is less than requested MDC but greater than achieved MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- * - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 6/18/2018 2:21:

Client: ALS Environmental
 Work Order: 1805279
 Project: T1800765

QC BATCH REPORT

Batch ID: **GS180530-2-1** Instrument ID **GAMMA** Method: **Gamma Spectroscopy Results**

DUP Sample ID: **1805279-1** Units: **pCi/g** Analysis Date: **6/15/2018 08:00**
 Client ID: **APD-5D-Qtzite-90-91** Run ID: **GS180530-2A** Prep Date: **5/25/2018** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual
Ra-226	3.13 (+/- 0.51)	0.56						3.2	0.1	2.1	G
Ra-228	3.14 (+/- 0.73)	1.06						2.73	0.4	2.1	M3,G

LCS Sample ID: **GS180530-2A** Units: **pCi/g** Analysis Date: **6/15/2018 08:42**
 Client ID: Run ID: **GS180530-2A** Prep Date: **5/25/2018** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual
Ra-226	467 (+/- 55)	3	468.3		99.8	85-115					P,M3

LCS Sample ID: **GS180530-2** Units: **pCi/g** Analysis Date: **6/15/2018 08:41**
 Client ID: Run ID: **GS180530-2A** Prep Date: **5/25/2018** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual
Am-241	472 (+/- 55)	2	469.4		101	85-115					P
Co-60	198 (+/- 23)	1	199.1		99.6	85-115					P
Cs-137	180 (+/- 21)	1	179.7		100	85-115					P

MB Sample ID: **GS180530-2** Units: **pCi/g** Analysis Date: **6/15/2018 08:41**
 Client ID: Run ID: **GS180530-2A** Prep Date: **5/25/2018** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref	DER	DER Limit	Qual
Ra-226	ND	0.32									U
Ra-228	0.47 (+/- 0.33)	0.43									NQ

The following samples were analyzed in this batch:

1805279-1	1805279-2	1805279-3
1805279-4	1805279-5	1805279-6
1805279-7		

TECHNICAL BULLETIN ADDENDUM

The library used for analysis defines the gamma emission(s) to be used for analysis of each nuclide. If multiple gamma emissions are used for quantification, then a 'NET' quantification emission (or peak) must be defined in the library. This designation provides for the calculation of nuclide activity concentrations and detection limits in the case of non-presence of the nuclide. When the nuclide is not present, or the software is unable to resolve a peak at the library defined 'NET' energy, the software evaluates the 'NET' region of interest ('NET' peak energy +/- 2 keV) by performing a summation of the net counts above the background level. This 'NET' quantification can result in net negative, zero, or positive activity results, and is highly dependent on the spectral distribution in the region of interest of the 'NET' peak. In cases where only the 'NET' peak is found, and the software performs a net quantification, the nuclide result will be flagged with an 'NQ' qualifier on the final reports. This indicates that the nuclide is not detected or supported at any level above the reported MDC. Results are submitted without further qualification.

All nuclides specified in the library of analysis for gamma spectroscopy are evaluated for positive OR tentative identification on the following criteria:

- The individual abundances for the gamma emissions specified for each nuclide are summed to obtain a total nuclide abundance.
- From the total nuclide abundance, a positive identification criterion is set as 75% of this total nuclide abundance.
- For all nuclide peaks that are not net quantified, those peak abundances are summed. The total non-net quantified peak sum is compared to the calculated 75% abundance criterion. If this sum is greater than the 75% criterion, the nuclide is considered to be positively identified at the reported concentration. If the sum is less than the 75% criterion, the nuclide is tentatively identified at the reported concentration. These results will be flagged with a 'TI' qualifier on the final reports to indicate that the 75% abundance criterion was not met.

**APPENDIX B – 2017 Alternate Source Demonstration for Plant
Wansley Disposal Facility Groundwater Monitoring Network**

**GEORGIA POWER COMPANY
PLANT WANSLEY
DISPOSAL FACILITY
PERMIT NO. 074-005D (LI)**

**ALTERNATE SOURCE DEMONSTRATION FOR PLANT
WANSLEY DISPOSAL FACILITY GROUNDWATER
MONITORING NETWORK**

Prepared for

Georgia Power Company
Atlanta, Georgia

By

Southern Company Services, Inc.
Earth Science and Groundwater

March 2017

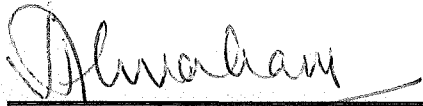


GEORGIA POWER COMPANY
PLANT WANSLEY
DISPOSAL FACILITY
PERMIT NO. 074-005D (LI)

ALTERNATE SOURCE DEMONSTRATION FOR PLANT
WANSLEY DISPOSAL FACILITY GROUNDWATER
MONITORING NETWORK

CERTIFICATION STATEMENT

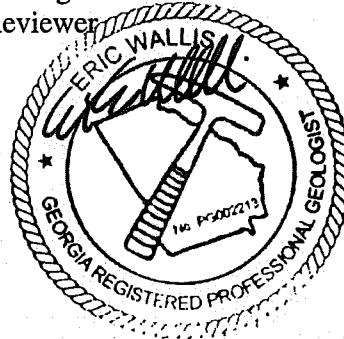
Southern Company Services (SCS) certifies that this alternate source demonstration is prepared in accordance with §391-3-4-.14.23.c of the Georgia Solid Waste Management Rules.



Joju Abraham
Originator



Eric E. Wallis, J.D., P.G.
Georgia Registered Professional
Geologist No. 2213
Reviewer



DISCLAIMER:

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APPENDICES

- Appendix A Time-Concentration Plots

1.0 INTRODUCTION

Statistical analysis of the analytical data from the 2016 2nd semi-annual groundwater sampling event at Georgia Power Company’s (GPC) Plant Wansley identified statistically significant increases (SSIs) of target constituents in monitoring wells at the disposal facility’s monitoring network as follows:

GWC-5	Nickel
GWC-7	Nickel
GWC-8	Cobalt
GWC-9	Barium, Cobalt, Nickel
GWC-10	Chromium, Vanadium
GWC-11	Barium, Chromium
GWC-14	Cobalt, Nickel
GWC-16	Chromium
GWC-22	Vanadium
GWC-25	Nickel
GWC-31	Chromium
GWC-32	Zinc

Groundwater monitoring data from Plant Wansley disposal facility were evaluated using statistical methods described in the 2016 Second Semi-Annual Groundwater Monitoring Report (SCS, 2016). Pursuant to Rule 391-3-4-.14(23)(c), this report provides an alternate source demonstration for the SSIs noted in wells at landfill Cell 1. All of the SSIs are attributed to variation in naturally-occurring constituents not properly accommodated by the current statistical method.

Plant Wansley is located in northeast Heard County and southeast Carroll County, Georgia, off Liberty Church Road, approximately 12 miles southeast of the city of Carrollton, see Figure 1, Site Location Map. The physical address of the plant is 1371 Liberty Church Road, Carrollton, Georgia. The plant property encompasses approximately 5100 acres and is bounded on the east by the Chattahoochee River.

Plant Wansley Coal Combustion By-Product (CCB) facility consists of 3 disposal cells and maintains an approximate 83-acre disposal footprint. A monitoring well network of 35 wells bordering the disposal facility is used to periodically collect chemical and physical data from groundwater at the site. This well network consists of 29 downgradient wells and 6 upgradient wells. Semi-annual detection monitoring is routinely performed in compliance with the permit conditions for groundwater monitoring at the site.

2.0 ALTERNATE SOURCE DEMONSTRATION

2.1 Natural Variability of Metals Concentrations

The SSIs of target metals at the site are attributed to the natural occurrence of metals in the underlying geologic formation and variability in those concentrations. The natural occurrence and spatial variability is not properly accommodated by the current interwell statistical method, resulting in SSIs. An intrawell statistical approach may be more suited for these constituents.

The following discussion presents information that pertains to the SSIs listed above and demonstrates that:

- 1) the geologic materials in the area are a viable natural source for the metals in groundwater;
- 2) these metals occur across the site – including upgradient;
- 3) overall there are no statistically significant increasing trends with the exception of nickel in downgradient wells GWC-5 and GWC-14 as well as cobalt in upgradient well GWA-4; and
- 4) intrawell statistical analysis maybe a more suitable alternative for these constituents.

2.1.1 Geology

Mafic rocks in the area are a viable source of barium, cobalt, chromium, nickel, vanadium, zinc, and several other metals in groundwater (Hem, 1985). Plant Wansley lies in the Southern Piedmont physiographic province, between the Blue Ridge Mountains and the Upper Coastal Plain (Clark and Zisa, 1976). The Southern Piedmont is characterized by predominantly metamorphic bedrock that includes biotite gneiss, hornblende gneiss, granitic gneiss, and amphibolite.

A complex suite of lithologies and two faults characterize the subsurface beneath the disposal facility. Geologic mapping on the plant property identified the following nine lithologic units. Brief descriptions of the lithologic units are as follows.

1. Mixed Unit: Interlayered graphitic mica schist with ilmenite, feldspathic gneiss, and metagraywacke with numerous metamorphic pegmatites. The Chattahoochee Fault divides the Mixed Unit from the muscovite schist located adjacent and to the southeast.
2. Muscovite Schist: Poorly jointed muscovite schist with small disseminated garnets, locally with quartzose schist and well-jointed metagraqwacke. This unit occurs upgradient of the ash pond.
3. Schist-Amphibolite unit: Quartzose schist and feldspathic gneiss interlayered with amphibolite/hornblende gneiss and localized ultramafic bodies. Mainly occurs beneath the ash pond.
4. Quartzite: Well-jointed and well-sheared feldspathic, micaceous quartzite that extends beneath the ash pond. This is the most transmissive unit on the plant property.

5. Garnet Schist: Mica schist with porphyroblastic garnet with abundant pegmatite pods and lenses.
6. Long Island Creek Gneiss: Weakly foliated, massive, granitic gneiss that is separate from the schist-amphibolite unit by the Long Island Creek Fault. This is possibly the least transmissive unit on the plant property due to its poorly weathered nature.
7. Sheared Button Schist: Muscovite-rich button schist, phyllonite, and greywacke unit containing sparse garnet and lacking mafic interlayers. The Katy Creek Fault marks the southeastern boundary of this unit and the Brevard Zone.
8. Biotite Gneiss: Biotite-quartz-feldspar gneiss interlayered with thin, discreet amphibolite layers. Differential weathering has occurred in this unit due to deeper weathering in the mafic bodies compared to the felsic gneiss.
9. Amphibolite: Regionally continuous, thinly-laminated, fine-grained amphibolite that occurs within the surrounding Biotite Gneiss.

Of these lithologic units, Schist-Amphibolite, Long Island Creek Gneiss, Sheared Button Schist, Biotite Gneiss and Amphibolite are the major units near the landfill cells. These lithological units are broadly comparable to the regional geologic map of Lawton (1976).

The Long Island Creek Fault separates the Long Island Creek Gneiss and Schist-Amphibolite unit. The Katy Creek Fault separating the Button Schist and Amphibolite units, marks the southeastern boundary of the Brevard Fault Zone – a major fault zone extending across several states in the Southern Appalachian Mountain. These geologic structures provide preferential flow paths and differential weathering resulting in enhanced dissolution and transport of metals in groundwater flow.

The occurrence of saprolite at the site indicates that intense chemical weathering has occurred and that there has been no physical removal of the materials from their original location. Chemical weathering of the metamorphic rocks can release metals associated with the minerals (barium, chromium, vanadium, zinc, and several other metals) into solution (i.e. groundwater). Since elemental concentrations in metamorphic rocks vary, the dissolution rates by chemical weathering and the resultant concentrations in solution can also show notable variations by natural processes. Chemical weathering of the rock materials present at the site has likely released naturally-occurring metals in the groundwater and facilitates the statistical excursions noted at the site.

2.1.2 Geologic Source

Downgradient wells that show cobalt and nickel concentrations above the prediction limits, namely, GWC-5, GWC-7, GWC-8, and GWC-9, are located near the Katy Creek Fault. These downgradient wells are screened in the upper bedrock, and are confined to a fault zone, paralleling the northeast-southwest trend of regional Appalachian rocks and near the contact of underlying mica schist and amphibolite units. Groundwater flow along the thrust fault or through fractures across these lithologies apparently allowed fluid circulation of naturally-enriched trace elements in the earth's crust to the shallow groundwater system. Garnets that are abundant in the local mica schists are a likely source of cobalt and nickel to the local groundwater.

The sheared button schist and the amphibolite gneiss are potential sources of trace metals for groundwater at the site. Garnets in the mica schists are the likely source of elevated cobalt and nickel in groundwater. The amphibolite gneiss can facilitate enhanced levels of chromium, nickel, vanadium, and other trace metals to groundwater. It appears that groundwater flow through the fault zone and bedrock fractures facilitates enriched concentrations of target metals, to the downgradient wells. Pre-disposal background data showed elevated concentrations of cobalt and nickel in several downgradient wells, indicating that a natural source of trace metals exists beneath the site. The natural source is attributed to the geologic formations containing cobalt, nickel, chromium, and vanadium near the fault zone.

Although downgradient well GWC-14 is offset from the Katy Creek Fault, in terms of its location, it is likely that the underlying biotite gneiss with amphibolite layers are potential sources for enriched concentrations of cobalt and nickel. Thus, the SSIs for cobalt and nickel in well GWC-14 can be strongly related to the lithological framework in the subsurface and its effect on groundwater composition.

2.1.3 Bedrock and Stream Geochemistry

Table 1, Summary of Sediment and Rock Chemistry Data, summarizes stream sediment and rock chemistry data for constituents of interest identified in U.S. Geological Survey (USGS) geochemistry database in the vicinity of Plant Wansley (<http://tin.er.usgs.gov/geochem/>). These data are interpreted to represent natural concentrations (conditions) in stream sediments and rocks found in the Piedmont region. Metals naturally occur over a wide range of concentrations, as indicated in the table below. Natural sources of chromium, copper, cobalt, nickel, and vanadium are reported in regional stream sediments that likely reflect ultramafic and mafic rocks in the region (Cocker, 1996). Amphibolite and Biotite Gneiss lithologic units are reported to contain notable concentrations of chromium and vanadium along with several other base metals (Cocker, 1991).

Table 1
Summary of Sediment and Rock Chemistry Data

Parameters			
Aluminum (1) 1.1 - 6.6 wt.% (2) 2.2 - 7.58 wt.%	Antimony (1) <0.6 - 0.4 mg/kg (2) <0.6 - 2.2 mg/kg	Arsenic (1) <0.6 - 18 mg/kg (2) <4 - 9.2 mg/kg	Barium (1) <5 - 1,480 mg/kg (2) <20 - >5,000 mg/kg
Beryllium (1) <0.5 - 1.5 mg/kg (2) <1 - 10 mg/kg	Boron (2) <10 - 100 mg/kg	Cadmium (1) <0.05 - <2.0 mg/kg (2) <2 - <20 mg/kg	Cobalt (1) 1.9 - 19.5 mg/kg (2) <5 - 200 mg/kg (3) 37 mg/kg
Chromium (1) <5 - 71.4 mg/kg (2) <5 - 4,100 mg/kg (3) 248 mg/kg	Copper (1) <2 - 16 mg/kg (2) <5 - 500 mg/kg (3) 49 mg/kg	Iron (1) 0.63 - 13.1 wt.% (2) 0.2 - 10 wt.%	Lead (1) <4 - 34 mg/kg (2) <5 - 200 mg/kg
Manganese (1) 20 - 2,960 mg/kg (2) 20 - 5,000 mg/kg	Mercury (1) <0.02 - 0.05 mg/kg	Molybdenum (1) <2.0 - 5.0 mg/kg (2) <2 - 30.1 mg/kg	Nickel (1) <3 - 31 mg/kg (2) 1.4 - 890 mg/kg (3) 77 mg/kg
Selenium	Silver	Vanadium	Zinc

(1) <0.2 - 0.5 mg/kg	(1) <1 - 0.5 mg/kg (2) <0.5 - <2 mg/kg	(1) 10 - 210 mg/kg (2) 10 - 1,500 mg/kg (3) 288 mg/kg	(1) 5 - 284 mg/kg (2) <5 - 700 mg/kg (3) 83 mg/kg
----------------------	---	---	---

wt.% - percent by weight, % - percent, mg/kg - milligrams per kilogram, mS/cm - millisiemens per centimeter, -- data unavailable

(1) Stream sediment data from USGS National Geochemical Survey Database

(2) Rock sample data from USGS National Geochemical Database

(3) Stow (1984)

2.1.4 Groundwater conditions

Review of time-concentration plots in Appendix A, Time-Concentration Plots, demonstrates that metals occur at variable concentrations in groundwater across the site. Groundwater conditions in the Piedmont region vary over short distances (LeGrand, 2004). The first zone of saturation may occur in the soil-regolith zone or at the saprolite-bedrock interface (transition-zone). In general, the majority of wells screened closer to the saprolite-bedrock interface show relatively higher turbidity levels, and show SSIs. In contrast, the majority of wells screened in the silt and sandy soils, above the saprolite zone, are less turbid and do not show any SSIs.

SSIs of target metals in groundwater screened near the saprolite-bedrock interface are attributed to leaching metals from the saprolite and variability of groundwater flow and redox conditions in the weathered zone. Evidence supporting this can be seen on time-concentration plots in Appendix A. Review of the time-concentration plots demonstrates that metals occur across a range of concentrations at the site, but that there is not a pattern to the distribution across the site that would suggest low concentrations upgradient or elevated concentrations downgradient. This supports the conclusion that the distribution is random and naturally-occurring, and that the concentration variations and statistical excursions at the site simply reflect natural spatial variations in groundwater chemistry.

2.1.5 Pre-disposal Groundwater Quality

Concentrations of target metals currently detected in groundwater are comparable to concentration data from four pre-disposal background monitoring events. Various metals were detected in many wells at varying concentrations across the site during the background sampling events, indicating that chemical weathering of underlying rocks has created high spatial variability that is typically noted in Piedmont settings. The high spatial variability is reflected in the significant differences in spatial chemistry for constituents outside the prediction interval by the inter-well statistical analyses.

Figure 3, Historic Cobalt Concentrations, shows the historic cobalt concentrations in detection wells GWC-5, GWC-6, GWC-7, GWC-8, and GWC-9. The first four points on Figure 3 represent the background sampling events conducted before waste was placed in the facility. Cobalt exceeded the interwell prediction interval (currently 0.015 mg/L) in the pre-disposal background events in wells GWC-8, GWC-9, and GWC-14. Nickel was also detected above the prediction interval in wells GWC-5, GWC-7, GWC-9, and GWC-14. Figure 4, Historic Nickel Concentrations, shows nickel concentrations in selected wells that exceeded the prediction interval. Nickel is closely associated with cobalt because of its similarity in geochemical properties and thus, nickel and cobalt frequently occur together in groundwater.

2.1.6 Site-Specific Groundwater Quality and Statistics

Groundwater quality exhibits a fairly high degree of spatial variability at the site. As such, the current SSIs may be categorized as “error in statistical analysis” within the framework of the rules because that spatial variability is not properly accommodated by the current statistical method. Interwell prediction limits are currently used to perform the statistical analysis of site data (and are specified within the current permit). With this method, upgradient data is pooled and used to develop a statistical limit that downgradient data are compared to. As explained by USEPA (2009), interwell comparisons assume that the concentration distribution is not spatially variable. At many sites, like Plant Wansley, this is not the case for many naturally occurring constituents. Where spatial variation occurs, the EPA recommends using an intrawell statistical approach as the most powerful method for detecting changes within a given well.

Figure 3
Historic Cobalt Concentrations

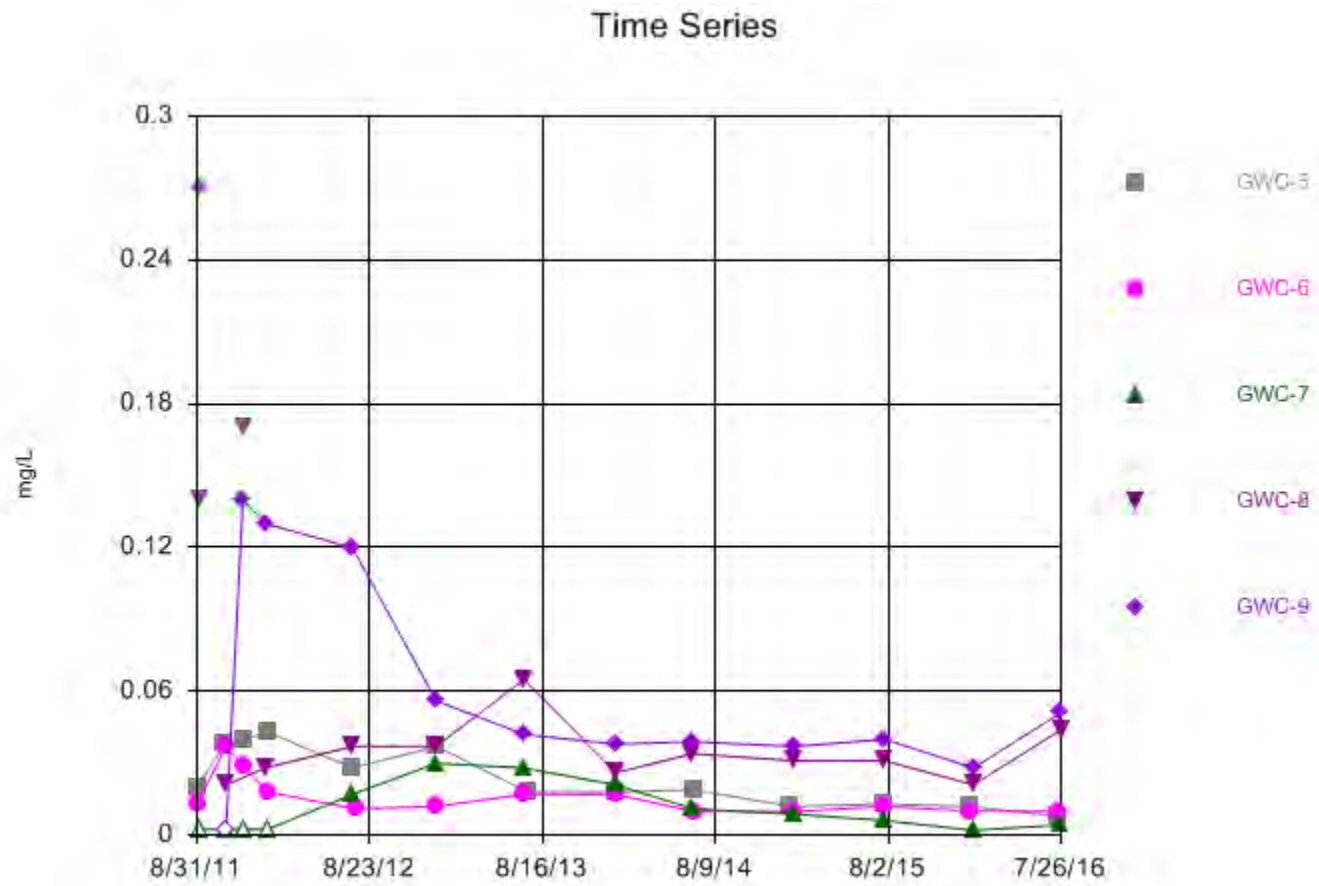


Figure 3 Continued
Historic Cobalt Concentrations

Saritas™ v.9.5.25 Saritas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

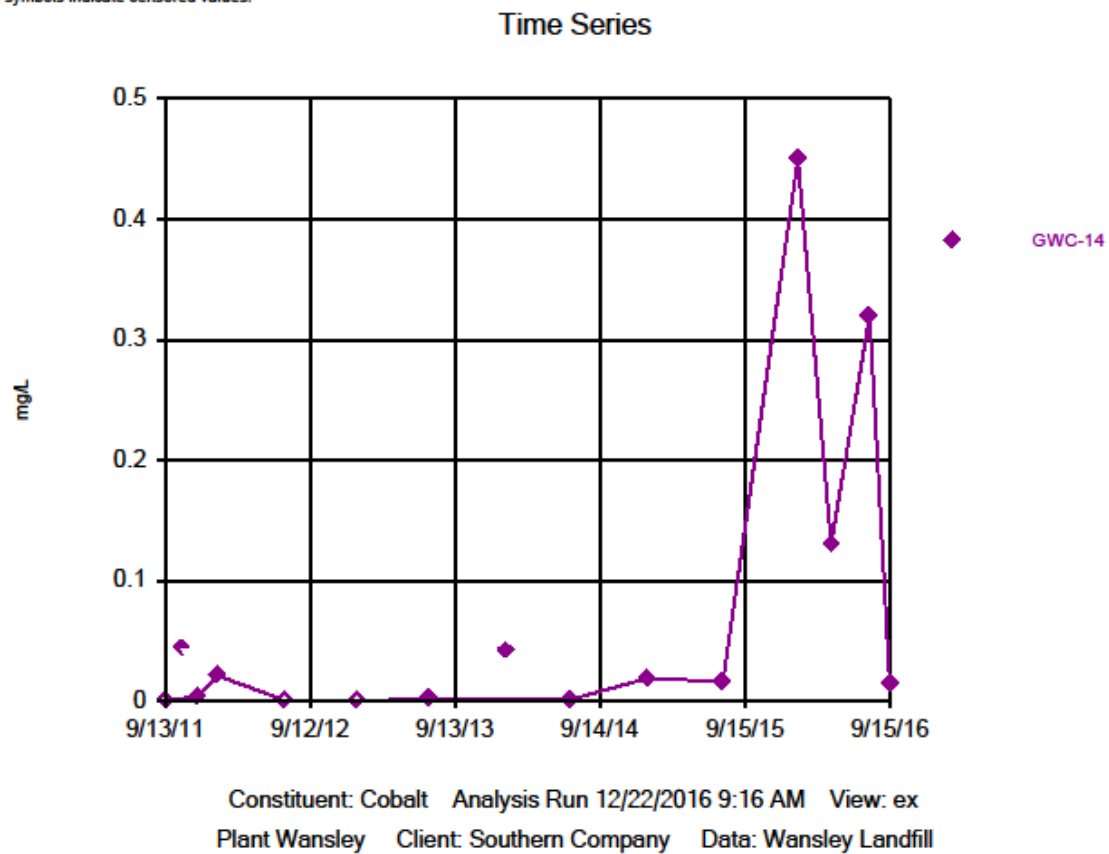
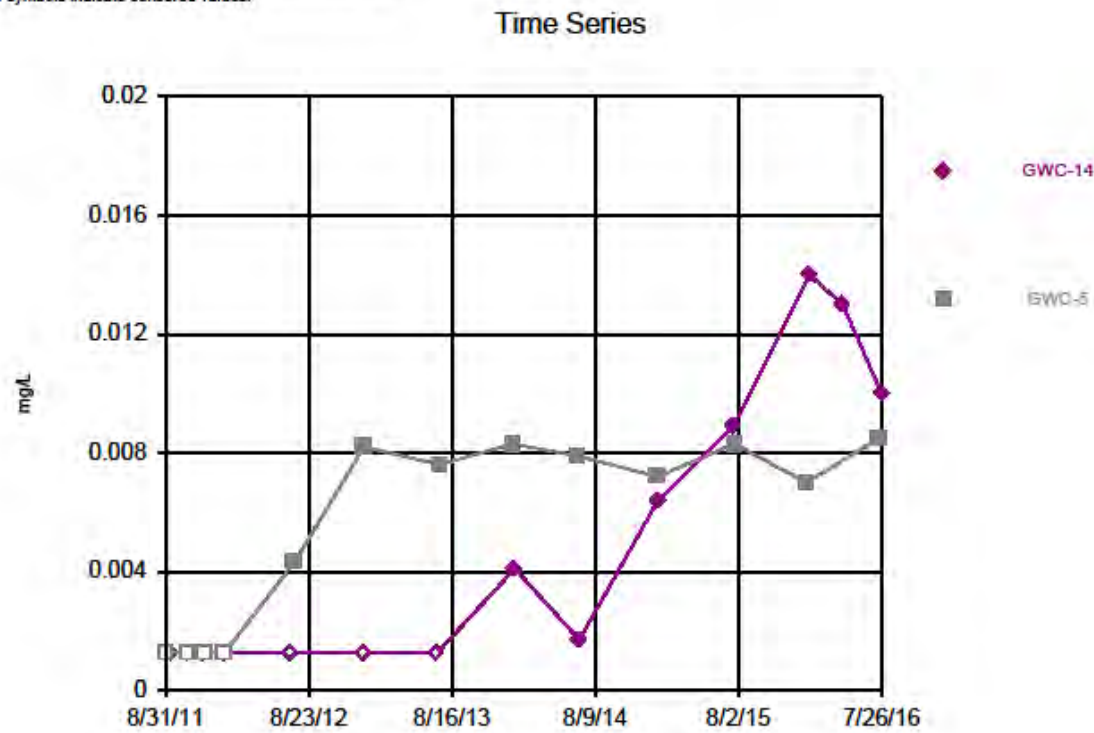


Figure 4
Historic Nickel Concentrations

Saritas™ v.9.5.25 Saritas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Nickel Analysis Run 12/22/2016 9:18 AM View: ex
Plant Wansley Client: Southern Company Data: Wansley Landfill

3.0 CONCLUSIONS AND RECOMMENDATIONS

The preceding provides an alternate source demonstration for the SSIs noted in wells at landfill Cell 1 pursuant to Rule 391-3-4-.14(23)(c). Specifically, this report demonstrates that the SSIs are the result of natural variability not properly accommodated by the current statistical methods and that the SSIs are not the result of an impact by the disposal unit.

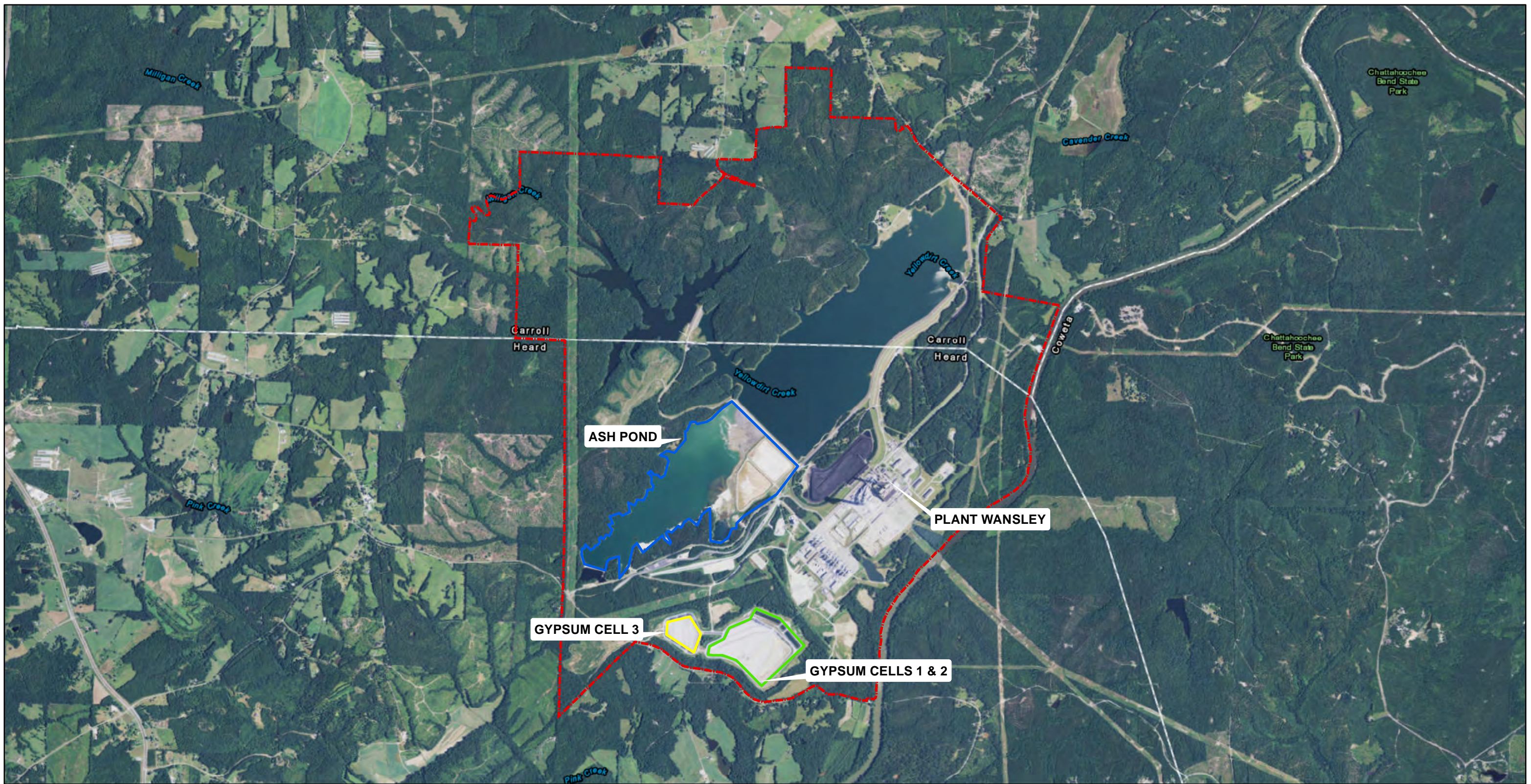
Pre-disposal background data showed elevated concentrations of several target metals in several downgradient wells, indicating that a natural source of trace metals exists beneath the site. Additionally, upgradient wells exhibit variability of target metal concentrations indicating intrawell methods may be more powerful for detecting changes in metal concentrations in downgradient wells. Evidence suggests the statistical exceedances of target constituents are due to naturally-occurring target metal concentrations in groundwater. Post-disposal compliance data continues to validate that trace metals occur naturally in groundwater at the site and are likely genetically-linked to weathering of underlying gneiss and schist.

Georgia Power Company recommends the following:

- Remain in detection monitoring.
- Continue to monitor the target constituents for natural variability in the groundwater system across the site.
- Develop a statistical analysis plan that accounts for spatially-variable data.

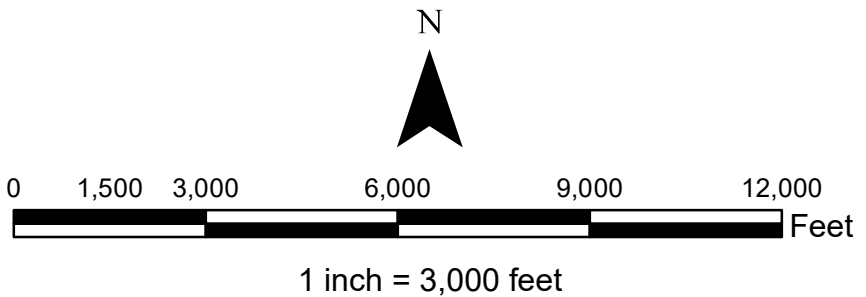
4.0 REFERENCES

- Clark, W.Z., and Zisa, A.C., 1976, Physiographic map of Georgia: Georgia Geological Survey SM-4, reprinted 1988, scale 1:2,000,000.
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- U.S. Environmental Protection Agency, 2009, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance, EPA 530-R-09-007.
- Lawton, D.E., 1976, Geologic Map of Georgia: Georgia Geological Survey, scale = 1:500,000.
- Stow, S.H., Neilson, M.H. and Neathery, T.L., 1984, Petrography, Geochemistry, and Tectonic Significance of the Amphiboles of the Alabama Piedmont: American Journal of Science, v. 284, p. 416-436.
- U.S. Geological Survey, National Database, <http://tin.er.usgs.gov/geochem>.



Legend

- - - Approximate Property Boundary
- Ash Pond
- Gypsum Cell 1 & 2
- Gypsum Cell 3



Southern Company Services
Earth Science and Environmental Engineering

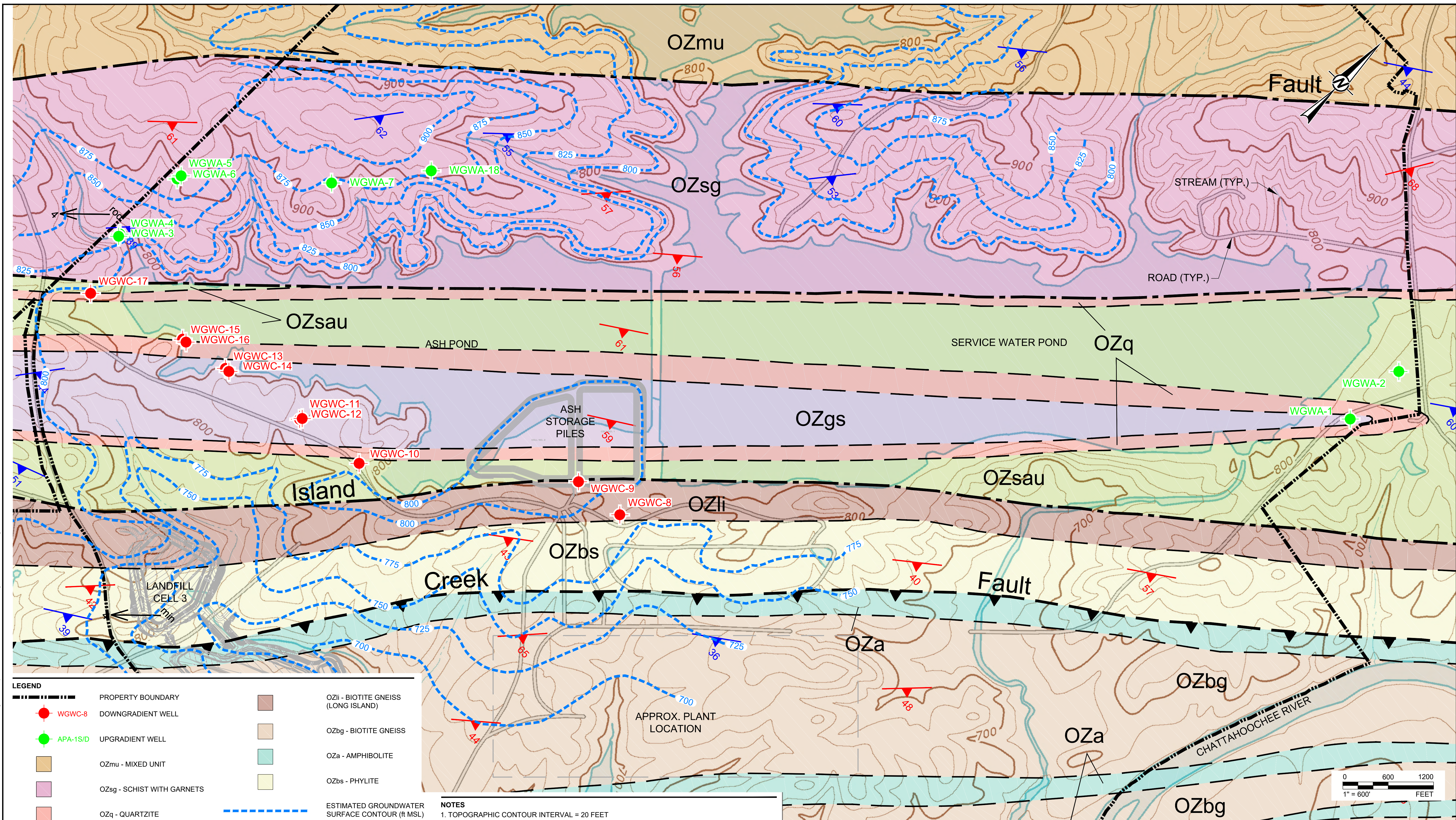
FOR

Georgia Power Company

SCALE	DRAWING NUMBER	SHEET	CONT'D	REV
As Shown	SITE MAP	1	As Shown	0

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FIGURE 1
 SITE MAP
 PLANT WANSLEY
 CARROLLTON, HEARD COUNTY, GEORGIA



LEGEND	
	PROPERTY BOUNDARY
	WGWC-8 DOWNGRADIENT WELL
	APA-1S/D UPGRADIENT WELL
	OZmu - MIXED UNIT
	OZsg - SCHIST WITH GARNETS
	OZq - QUARTZITE
	OZsau - SCHIST MAFICS ULTRAMAFICS
	OZgs - GARNET SCHIST
	OZli - BIOTITE GNEISS (LONG ISLAND)
	OZbg - BIOTITE GNEISS
	OZa - AMPHIBOLITE
	OZbs - PHYLITE
	ESTIMATED GROUNDWATER SURFACE CONTOUR (ft MSL)
	INTERPRETED GEOLOGIC CONTACT
	FOLIATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 20 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 25 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON 02/13/2015.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
5. MONITORING WELLS (APA-1, APA-2D, APC-1, APC-2, APC-3D, APC-4D, APC-5S, APC-5D, APC-6S, APC-6D, APC-7), WERE INSTALLED BY GOLDER ASSOCIATES. LOCATIONS SURVEYED BY E&CS CIVIL FIELD SERVICES ON JANUARY 20, 2016.
6. REMAINING MONITORING WELLS (APA-3S, APA-3D, APA-4S, APA-4D, APA-5) WERE INSTALLED BY SCS. LOCATIONS PROVIDED BY SCS.

REFERENCES

1. USGS 7.5 MINUTE QUADRANGLE; LOWELL, 2011.
2. TOPOGRAPHIC CONTOURS FOR LANDFILL AND ASH PILES PROVIDED BY SOUTHERN COMPANY SERVICES, INC.

CLIENT: SOUTHERN COMPANY SERVICES, INC.

SOUTHERN COMPANY

CONSULTANT	GOLDER ASSOCIATES INC.	YYYY-MM-DD	2016/08/17
DESIGNED			
PREPARED			SEP
REVIEWED			TIR
APPROVED			DSS

PROJECT: PLANT WANSLEY WELL INSTALLATION

SITE GEOLOGIC MAP

PROJECT NO. 1661736.002

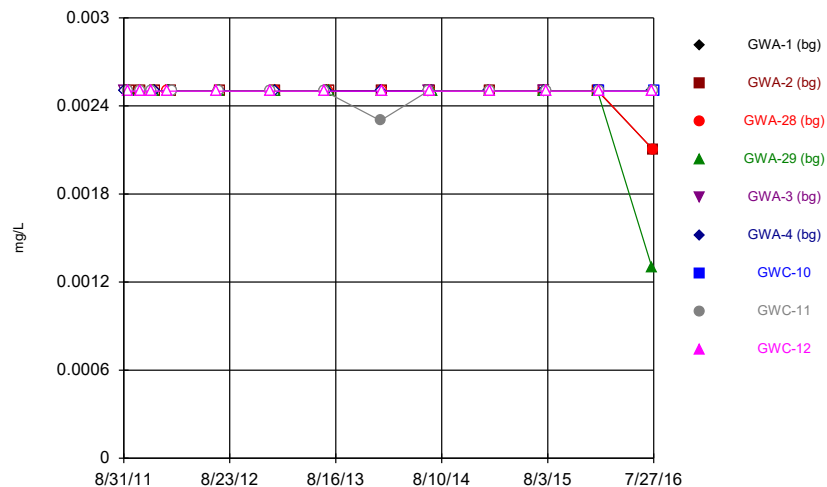
REV. -

FIGURE 2

Path: \\atlanta\cadd\Southern Company\Plant Wansley\1530076\Production\Well Location\Plan\Revised August 2016\1. File Name: 1661736.002-002-Monitoring Well Location Plan.dwg

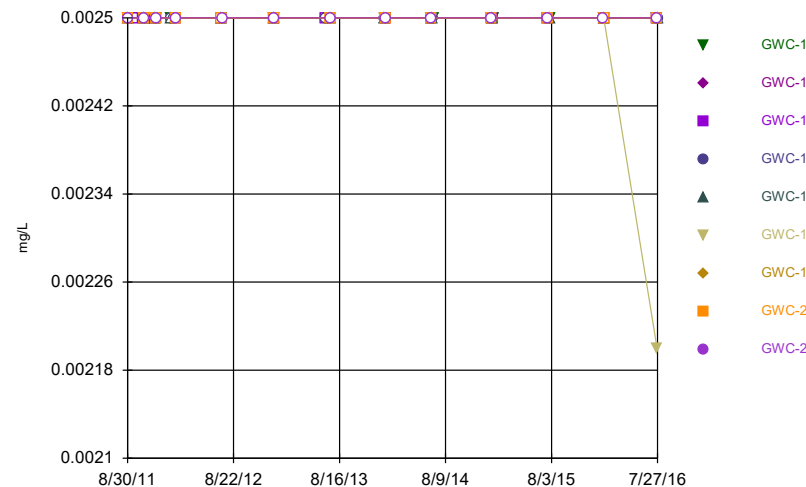
1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D

Time Series



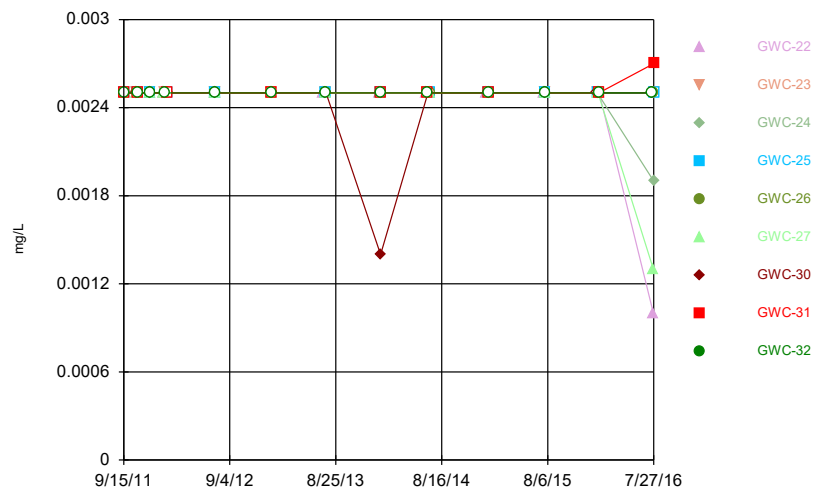
Constituent: Antimony Analysis Run 1/4/2017 1:50 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



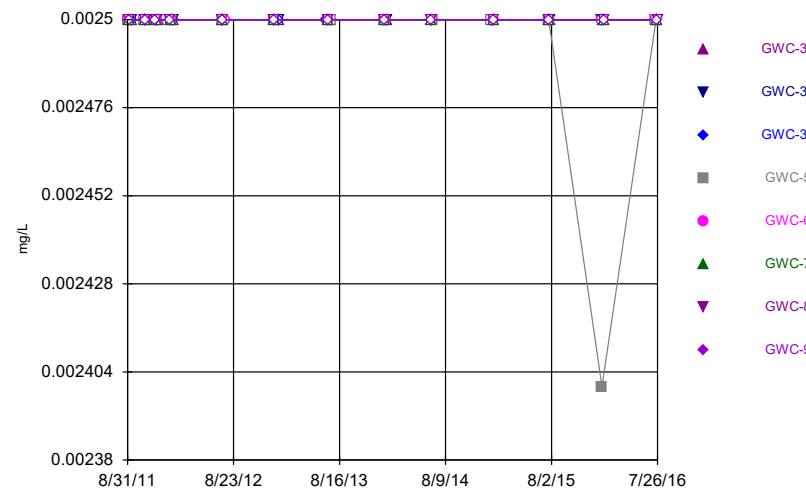
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



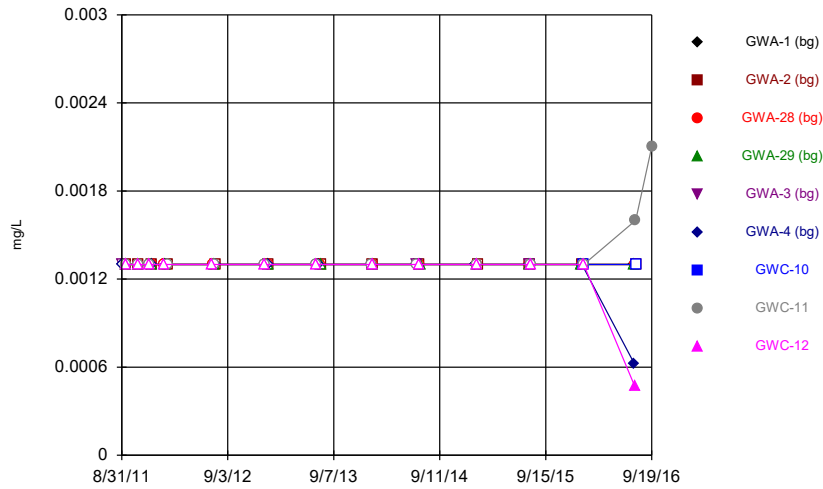
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Time Series



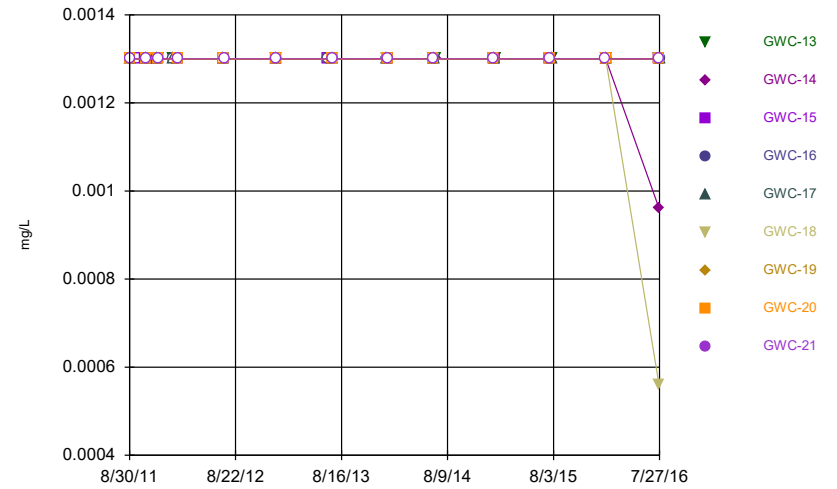
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Time Series



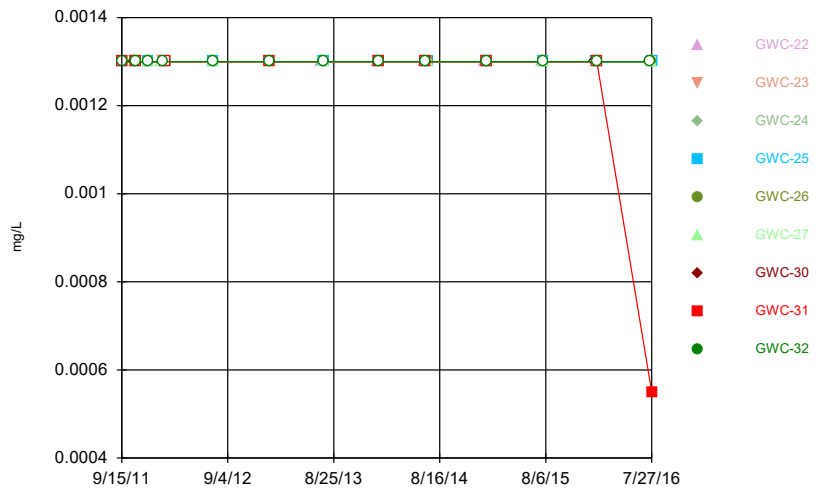
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Time Series



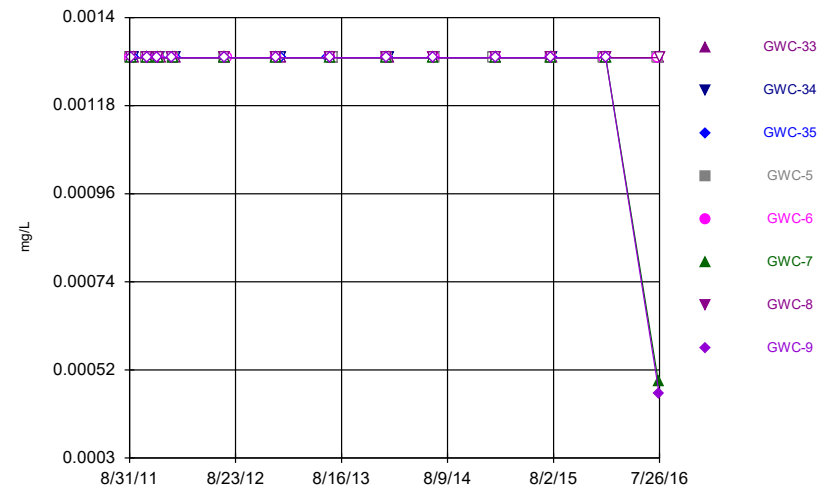
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Time Series



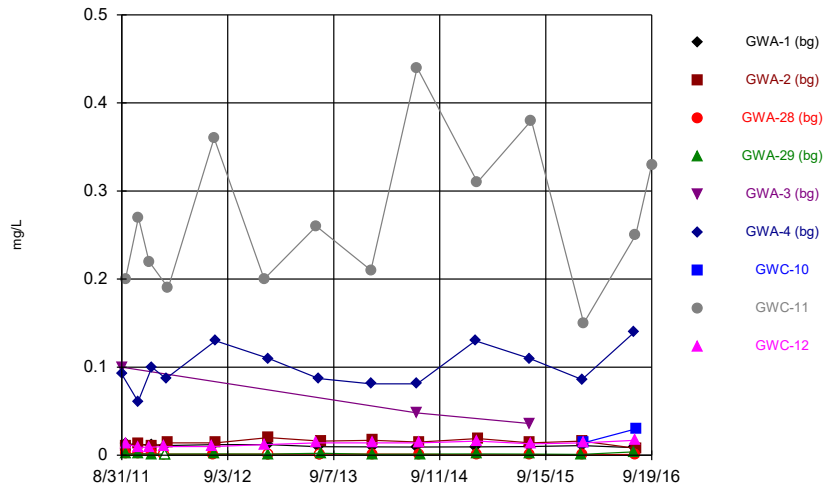
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Time Series



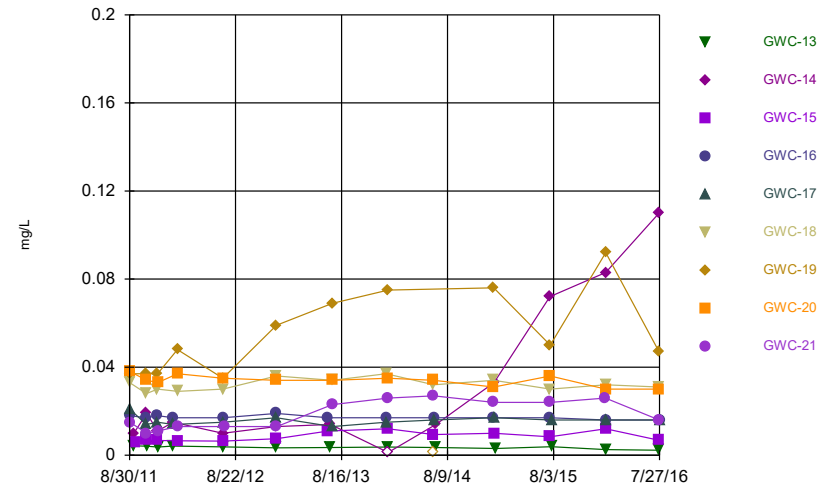
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Time Series



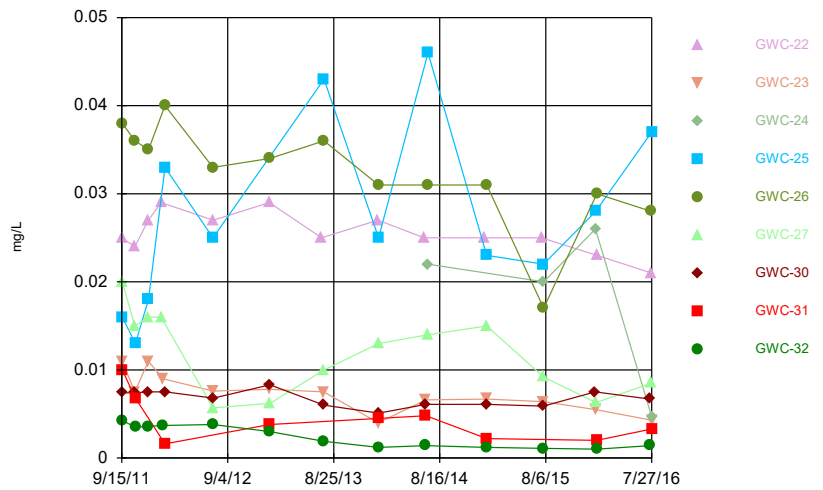
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Time Series



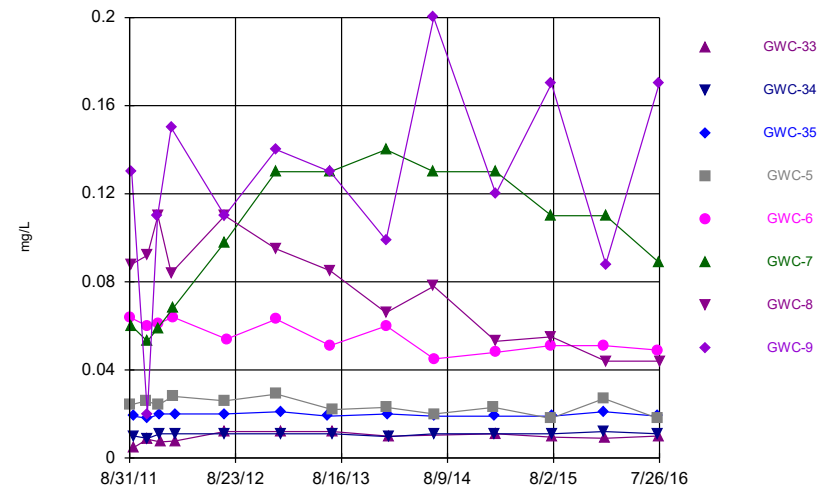
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Time Series



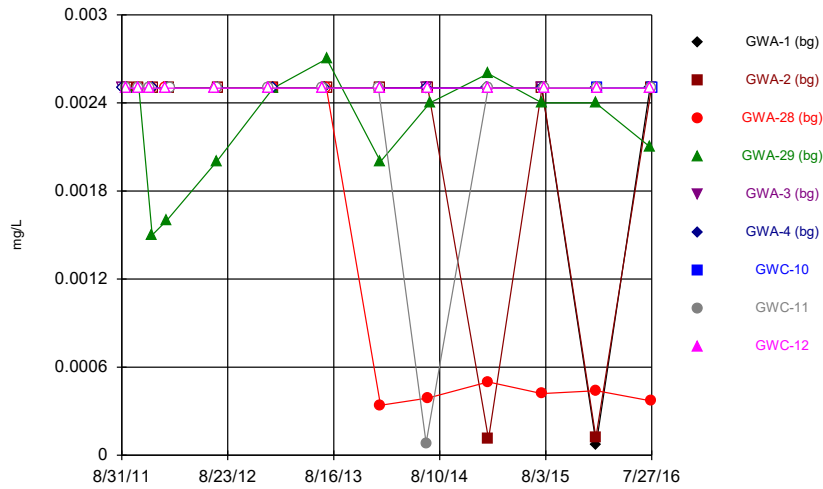
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Time Series



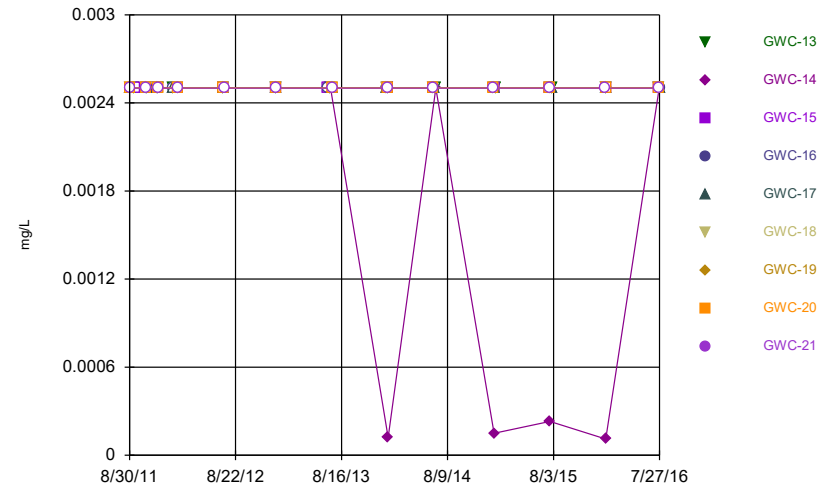
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



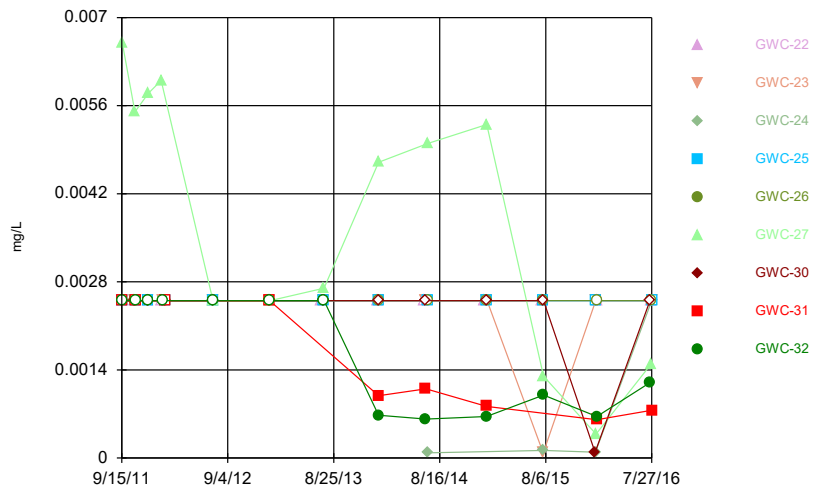
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



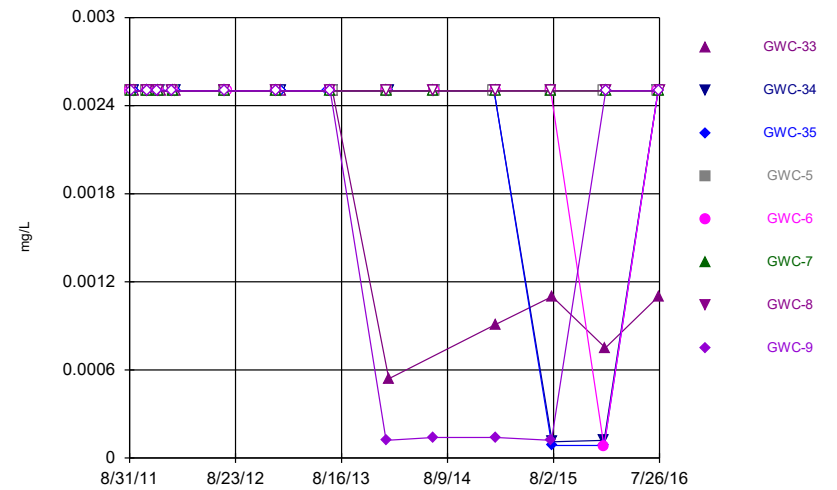
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



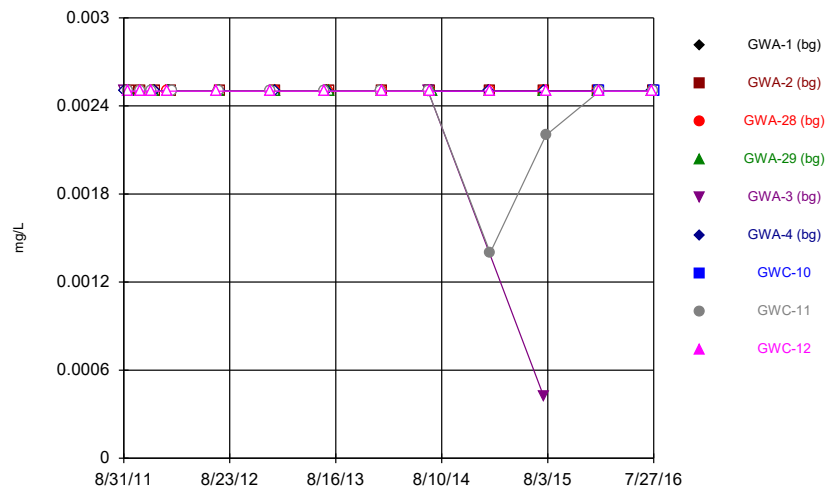
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Time Series



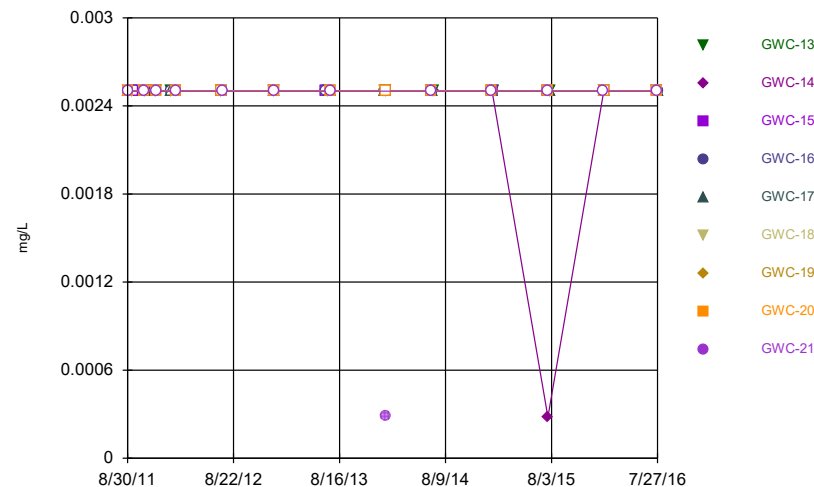
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



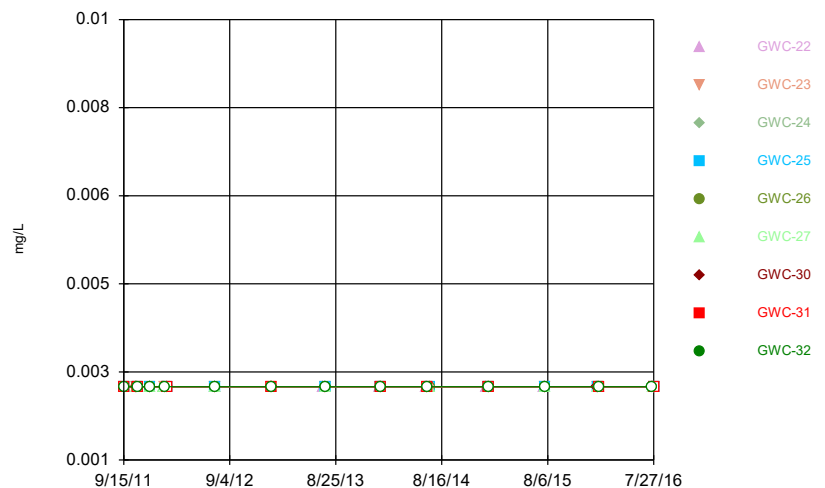
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



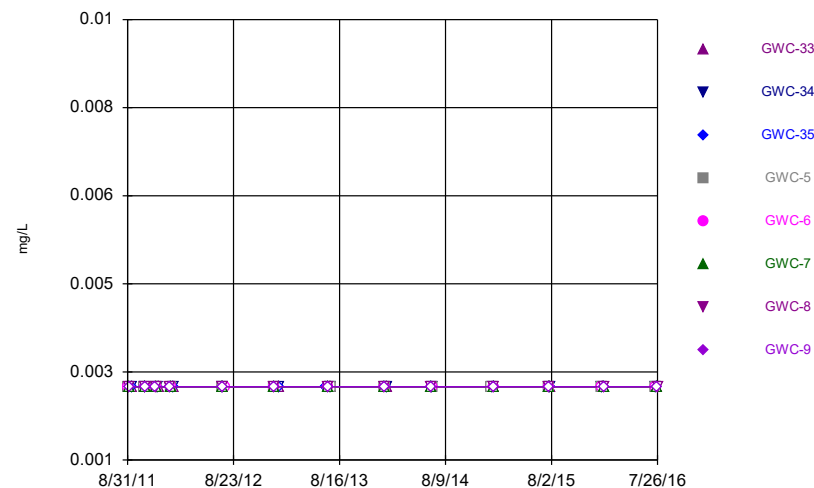
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



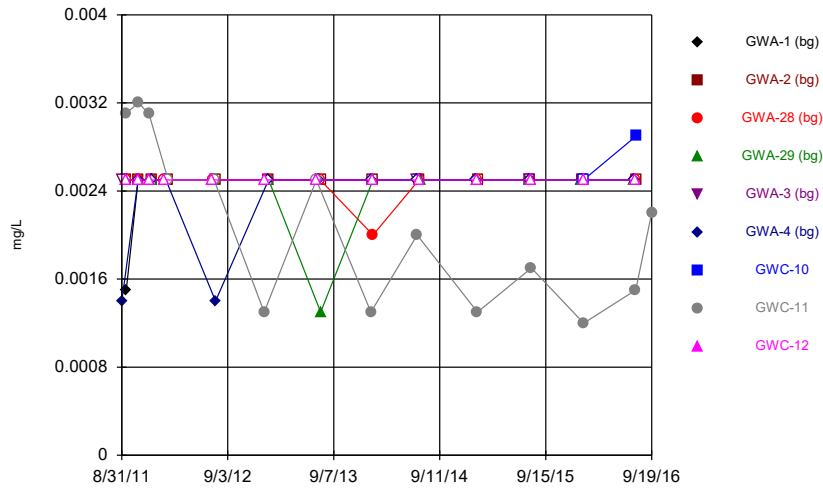
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



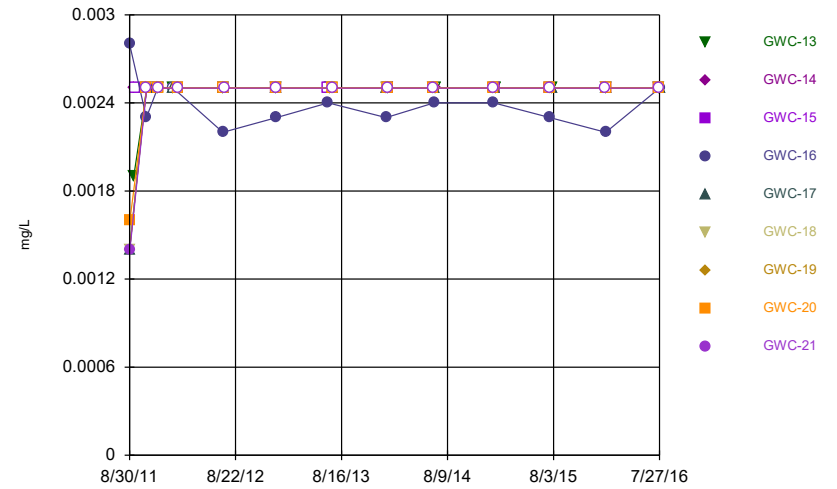
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



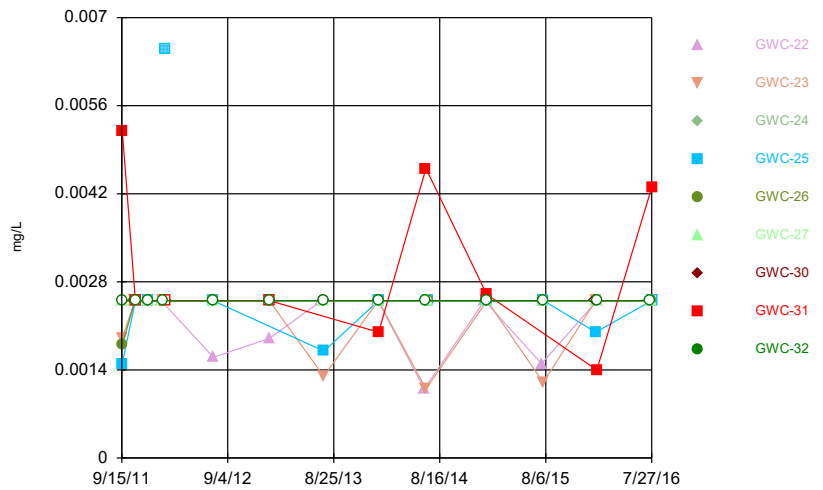
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



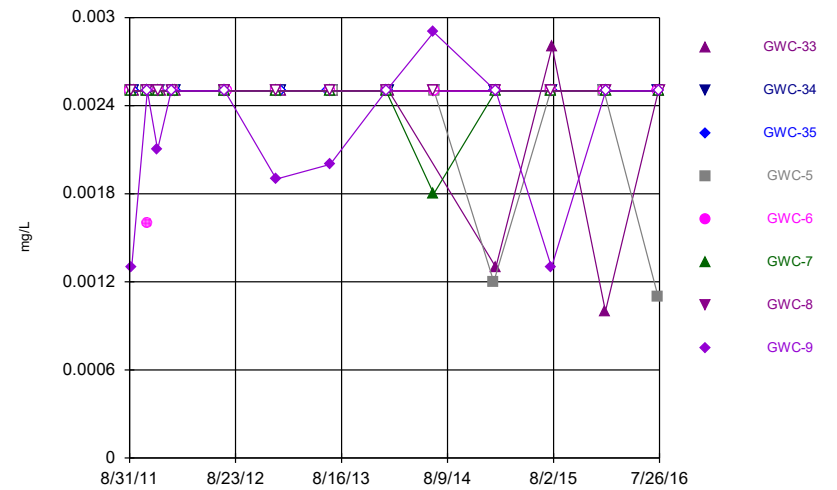
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



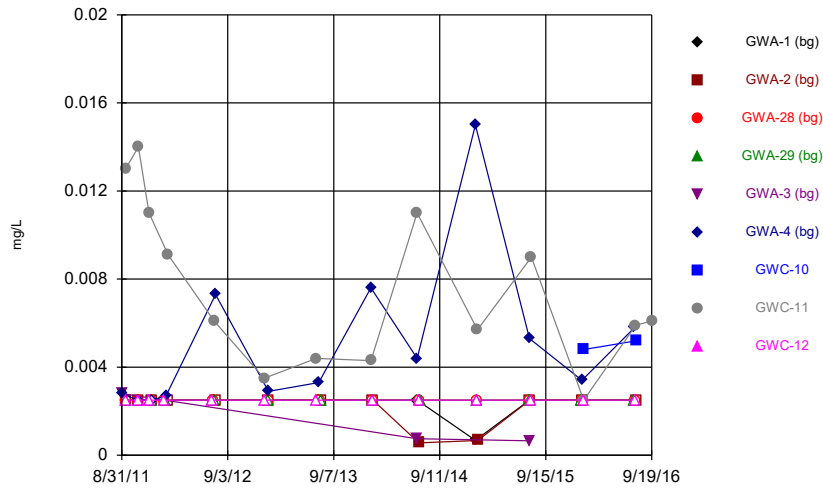
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



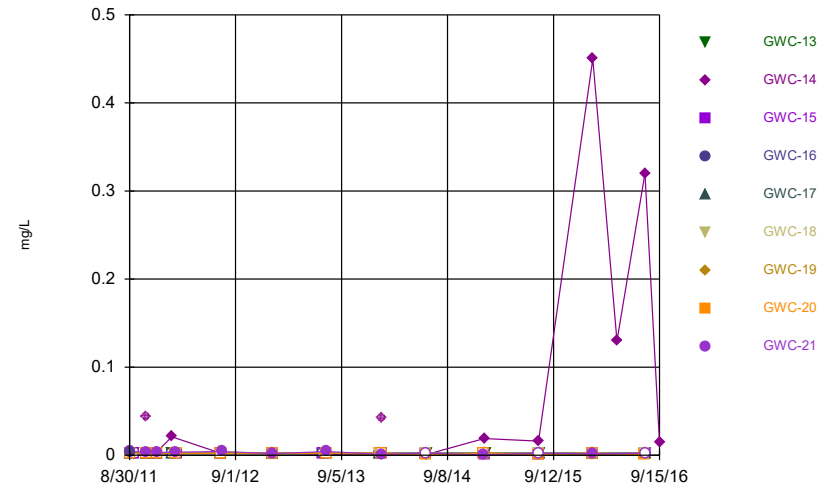
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



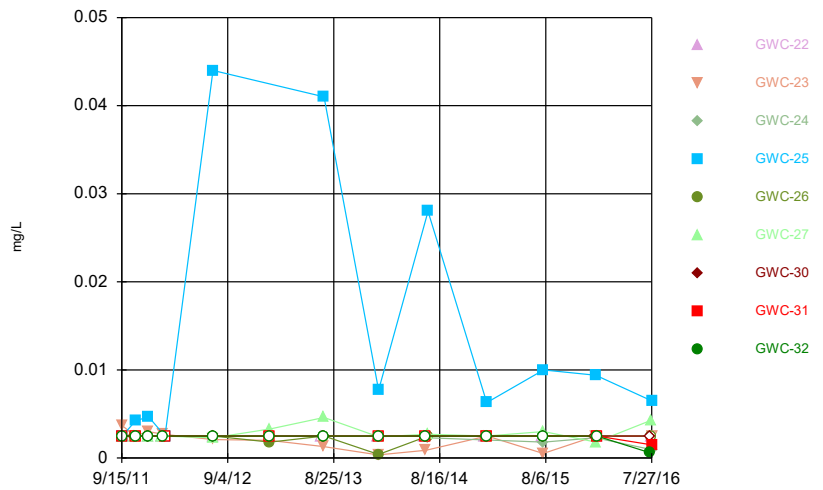
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



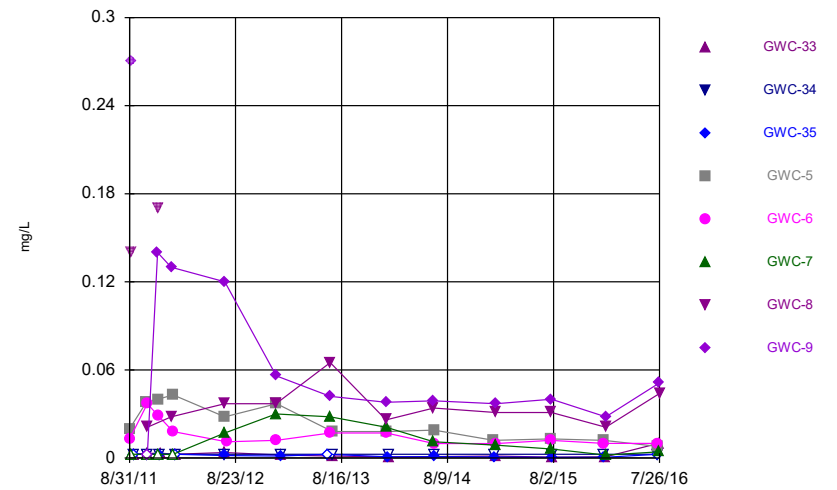
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



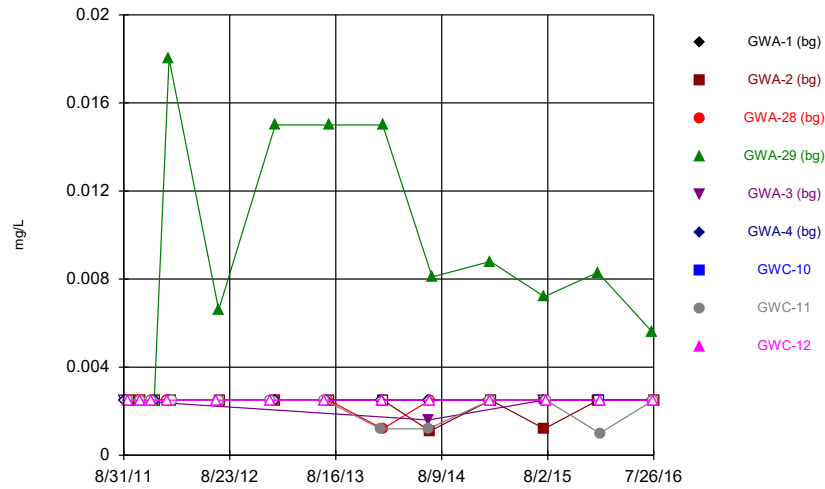
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



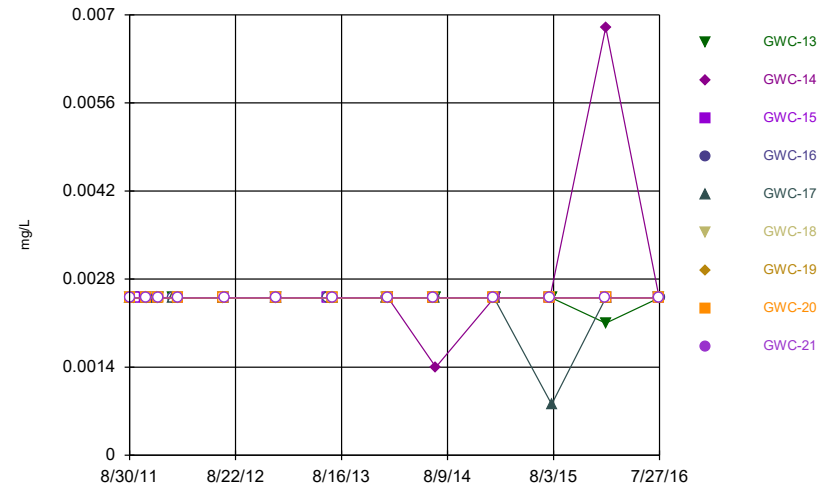
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



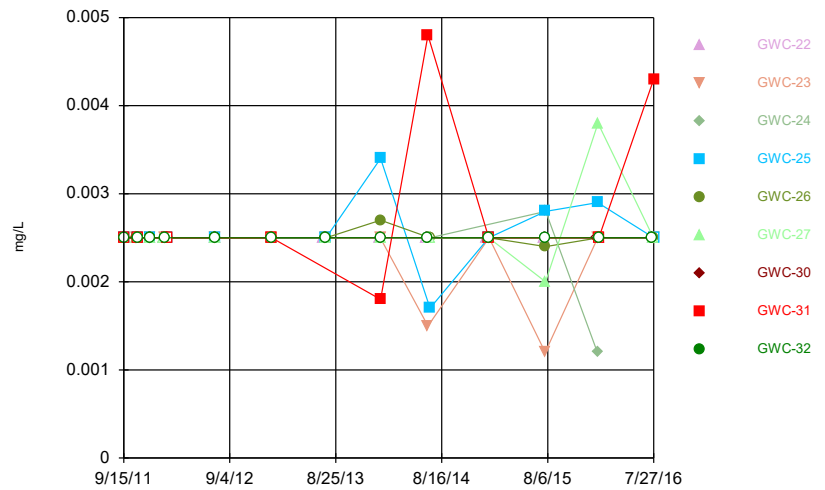
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



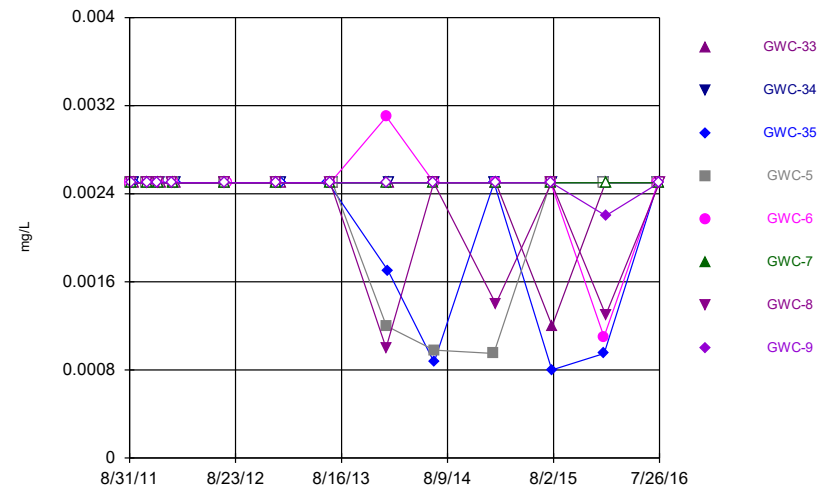
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Time Series



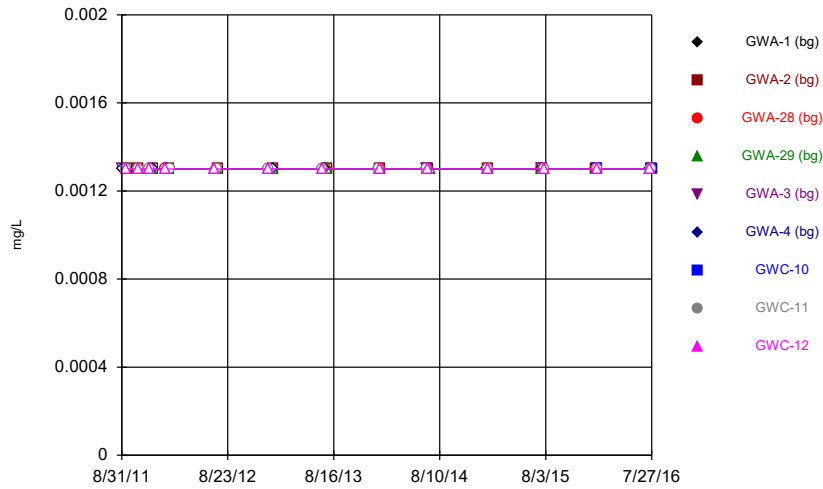
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Time Series



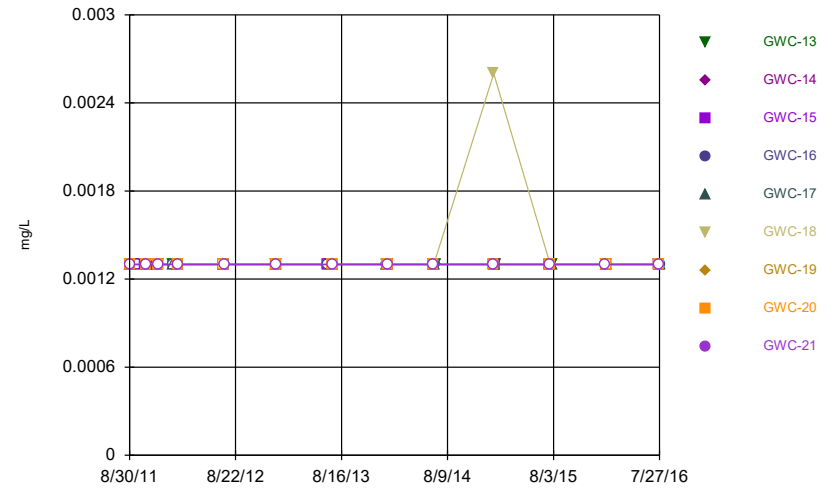
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



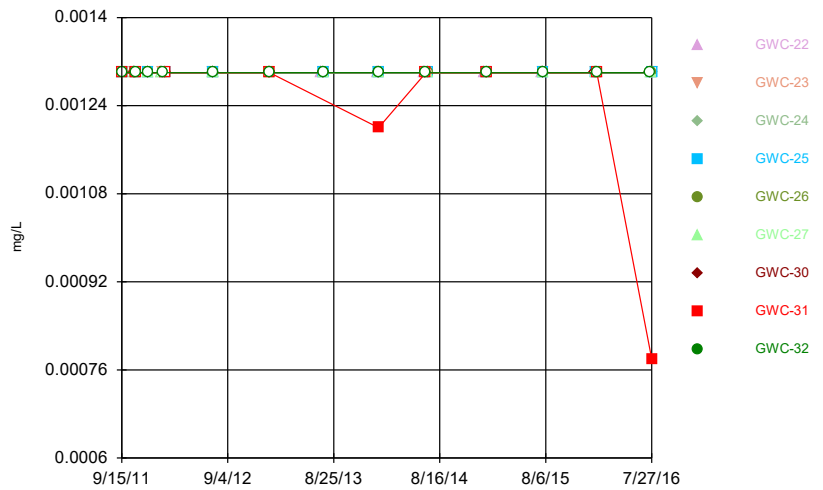
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Time Series



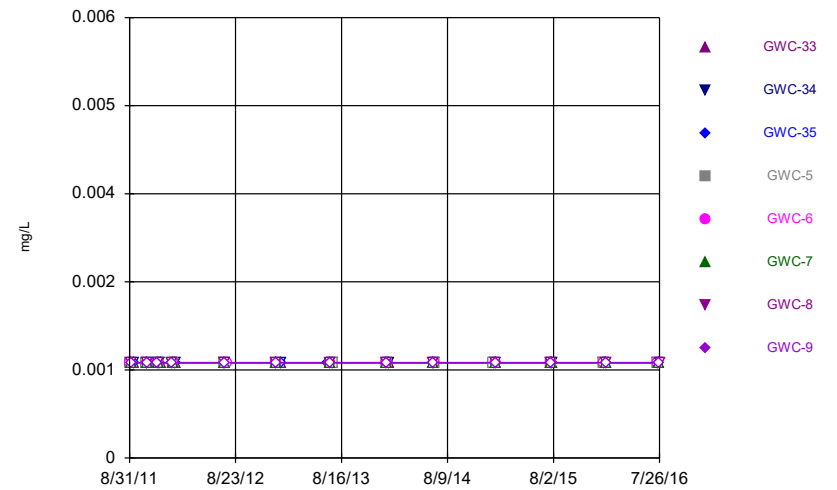
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Time Series



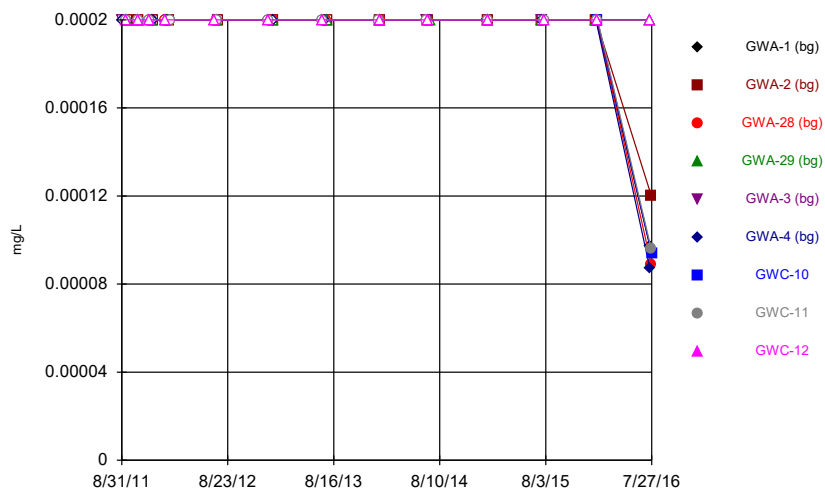
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Time Series



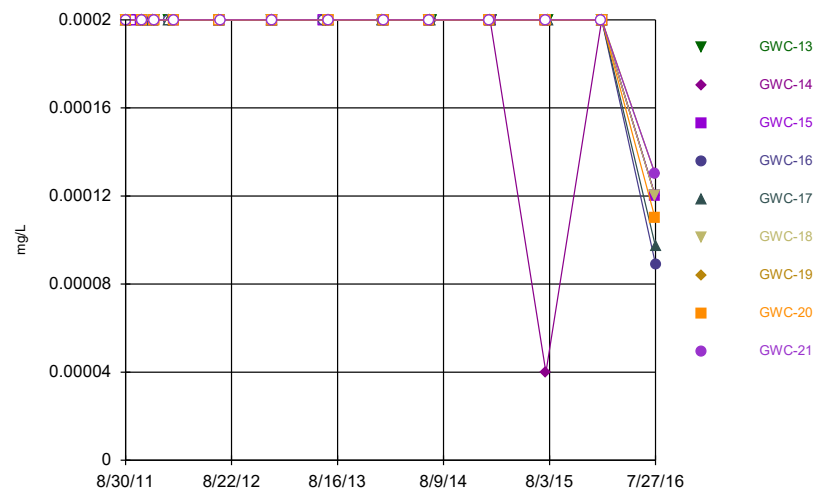
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Time Series



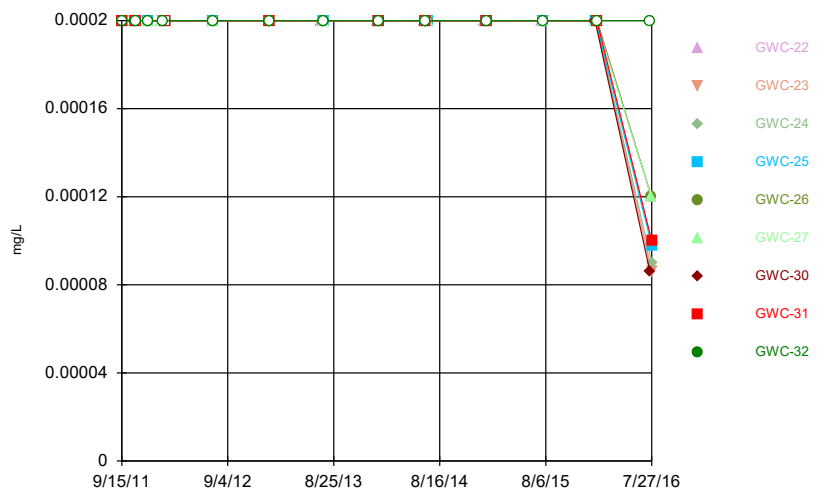
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Time Series



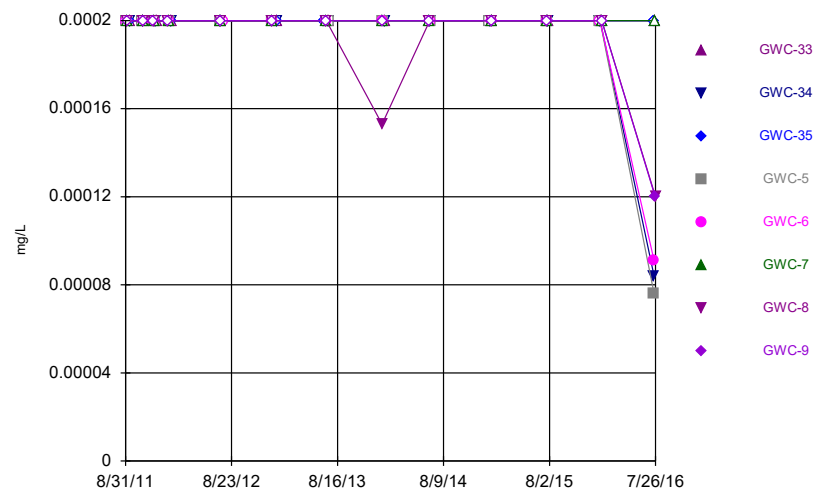
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Time Series



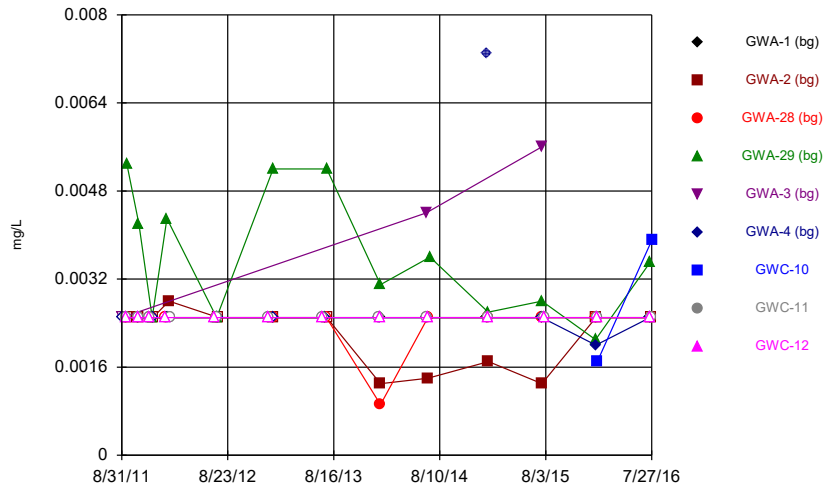
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Time Series



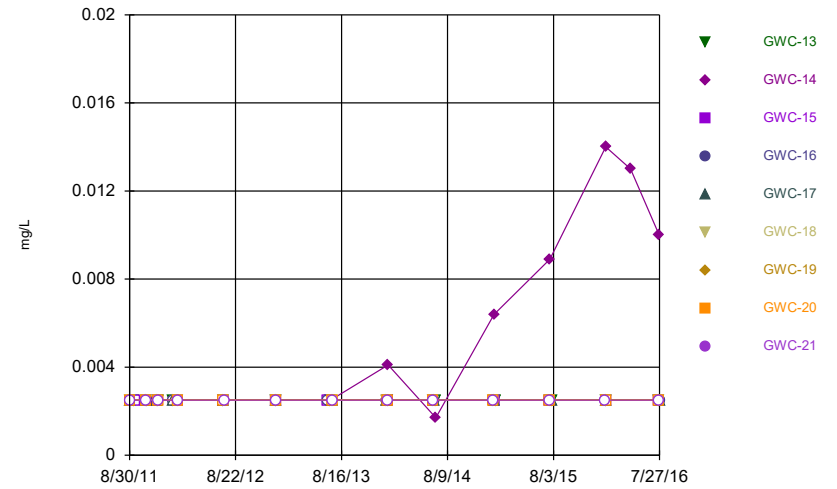
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Time Series



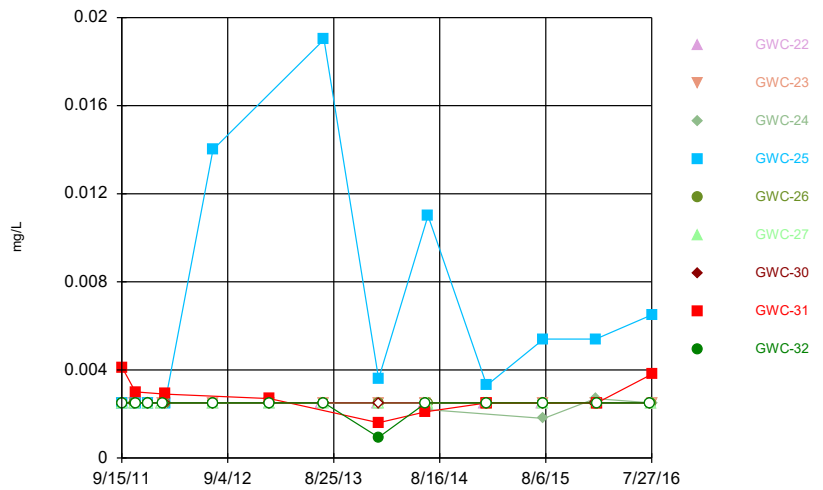
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Time Series



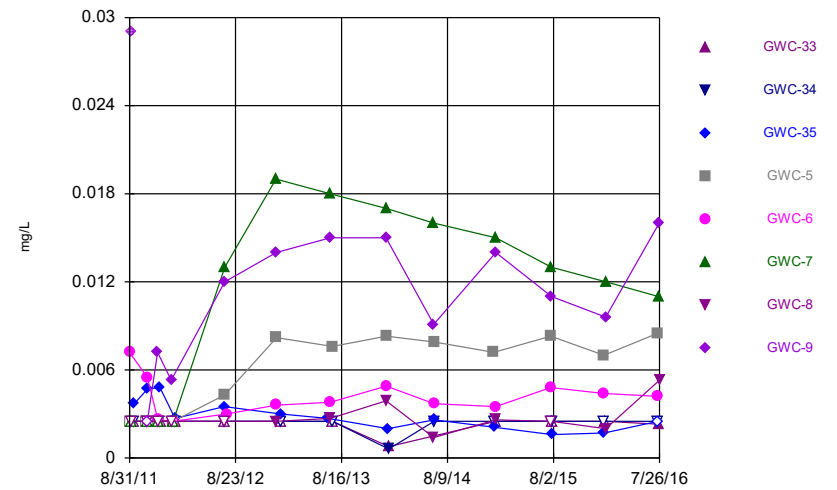
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Time Series



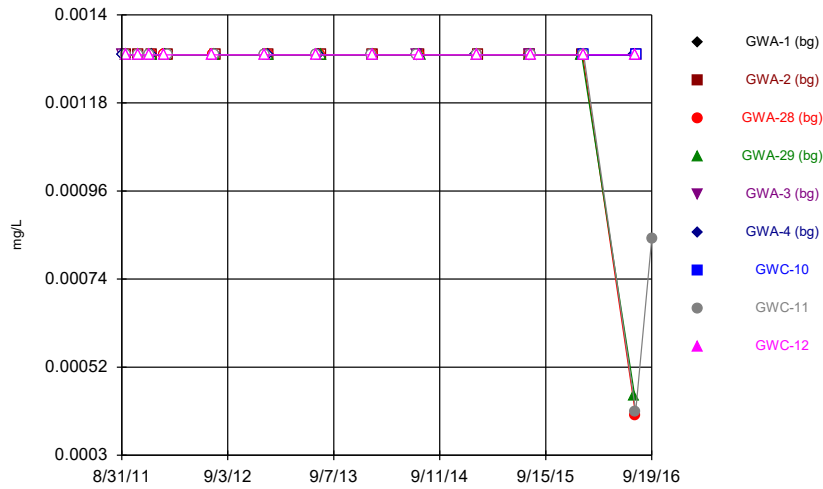
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Time Series



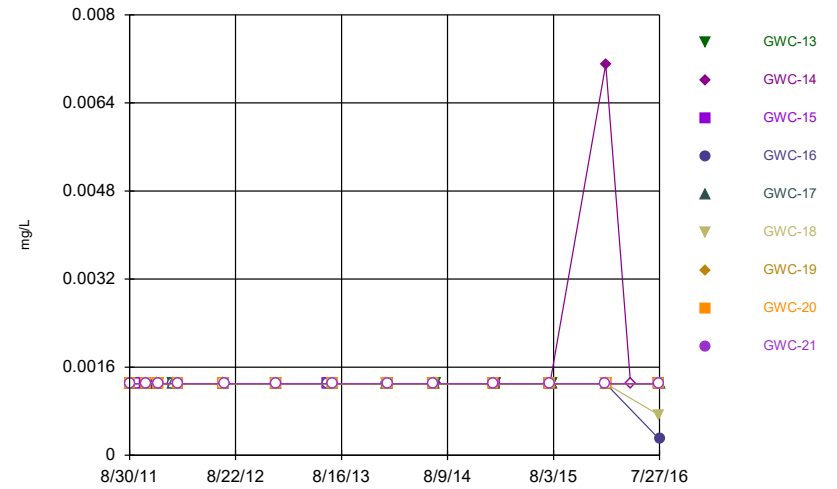
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Time Series



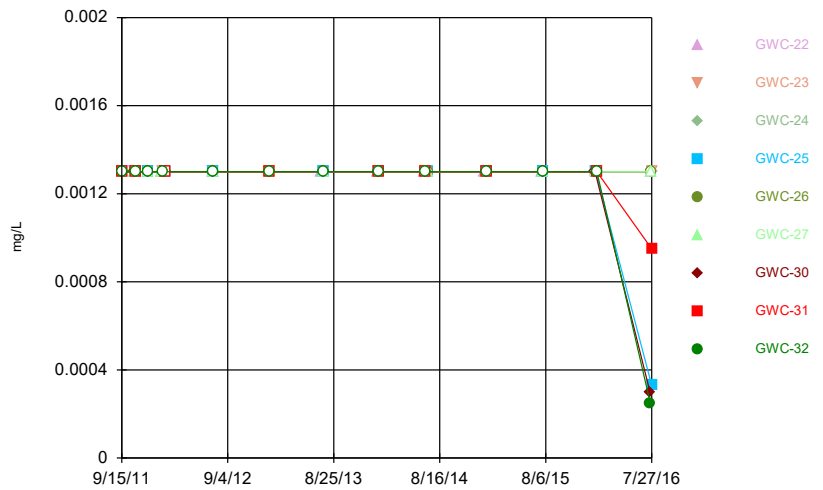
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Time Series



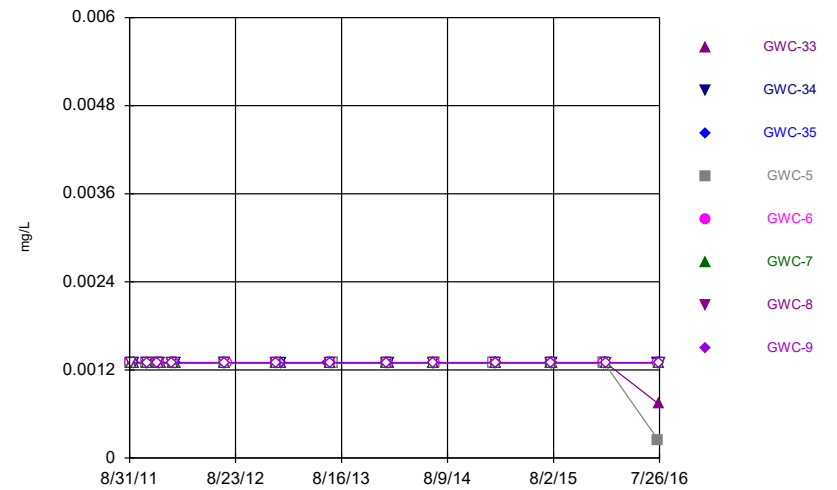
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Time Series



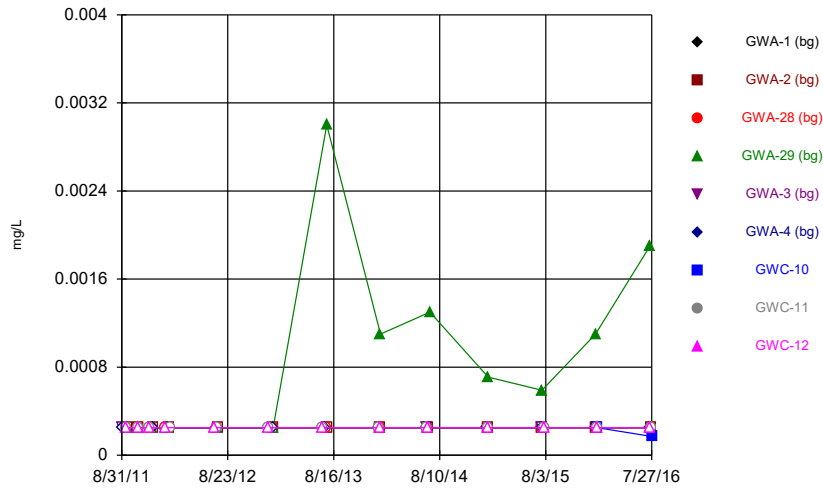
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Time Series



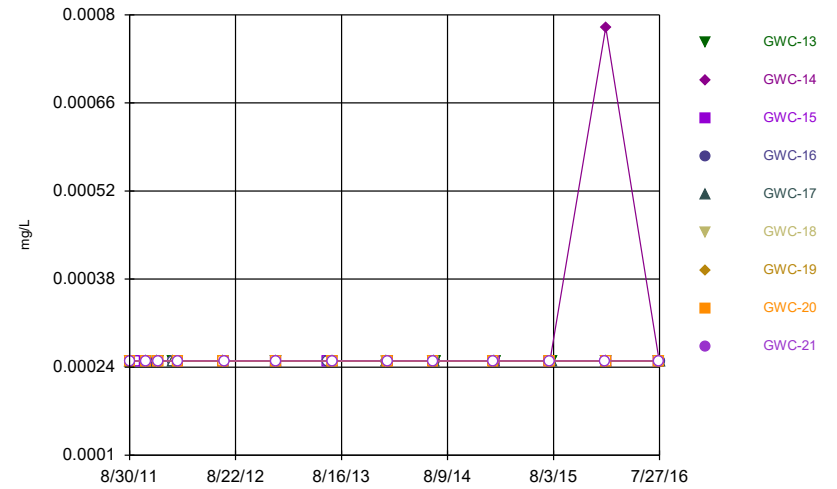
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Time Series



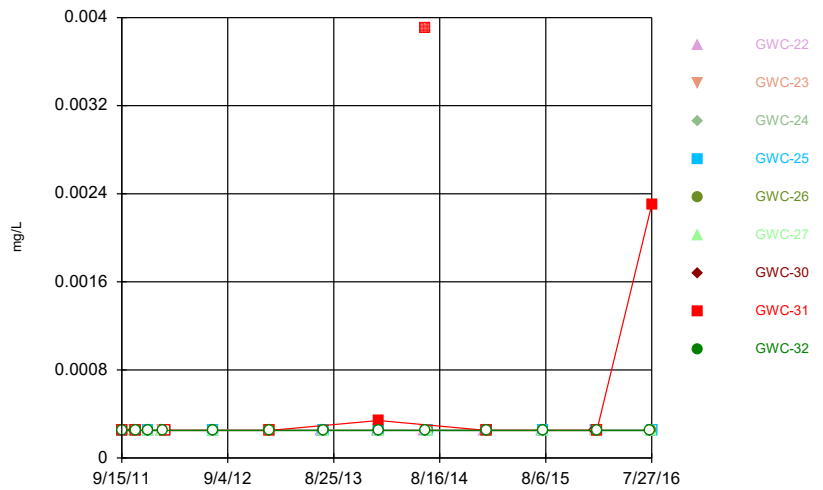
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Time Series



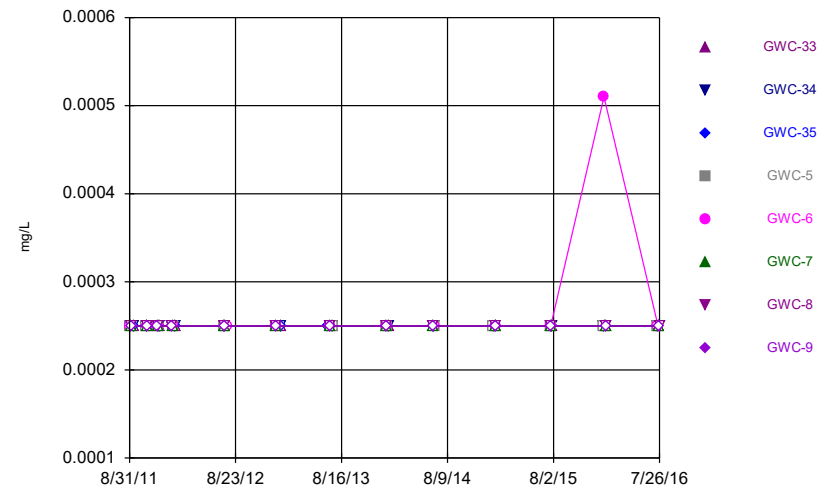
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Time Series



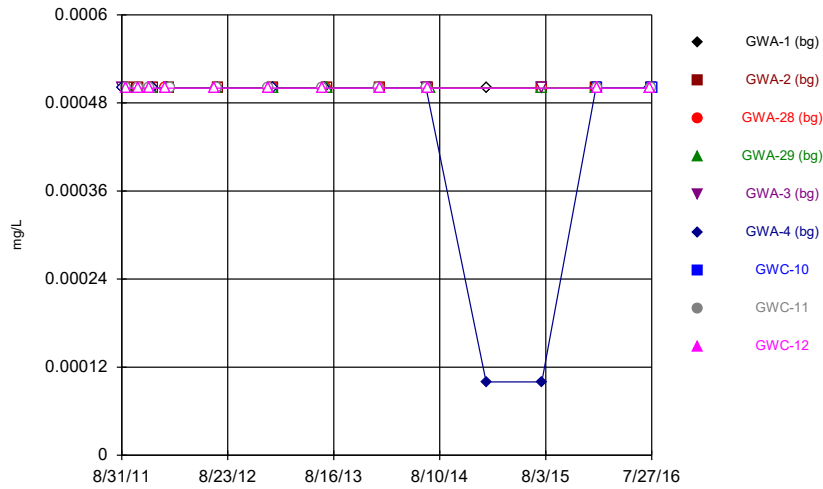
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Time Series



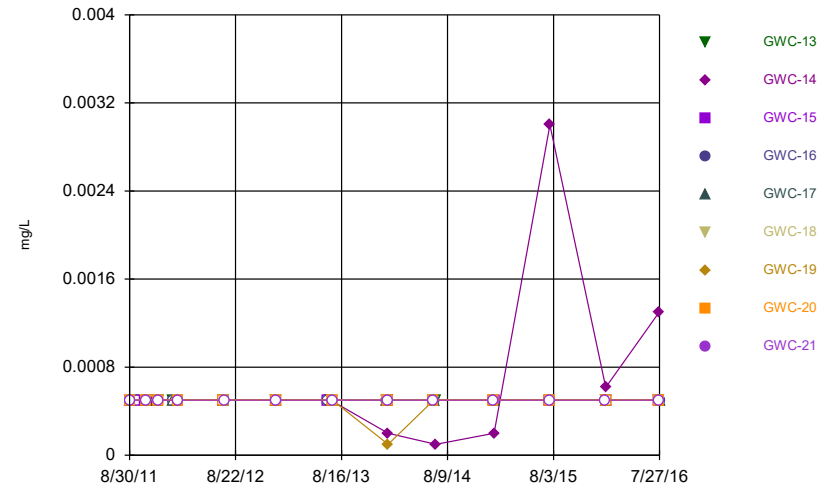
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Time Series



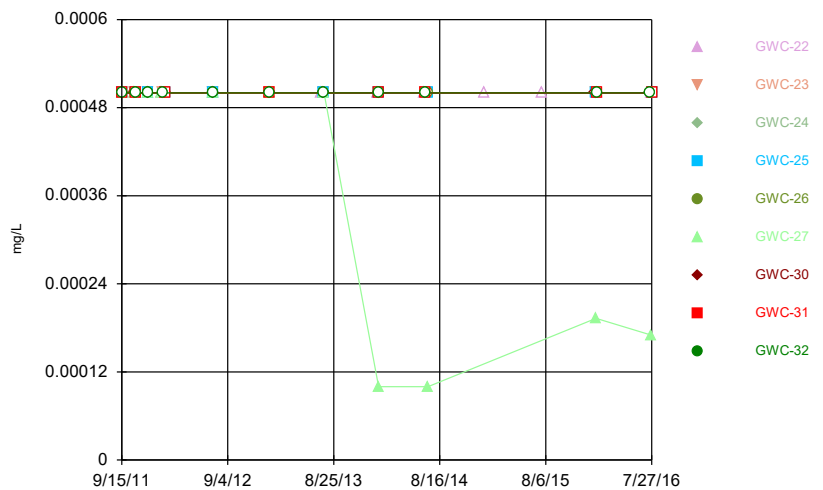
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Time Series



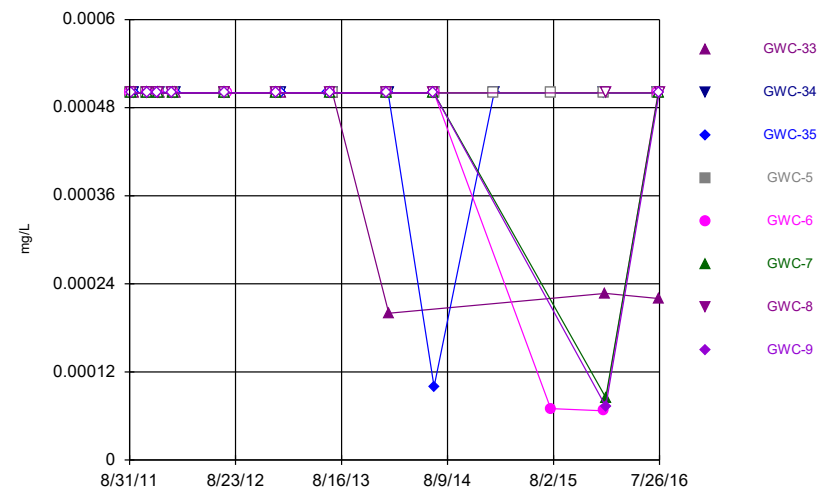
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Time Series



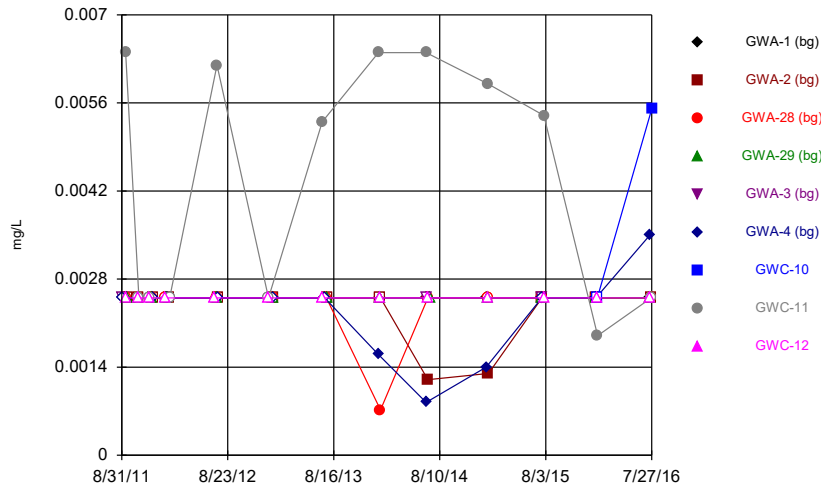
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Time Series



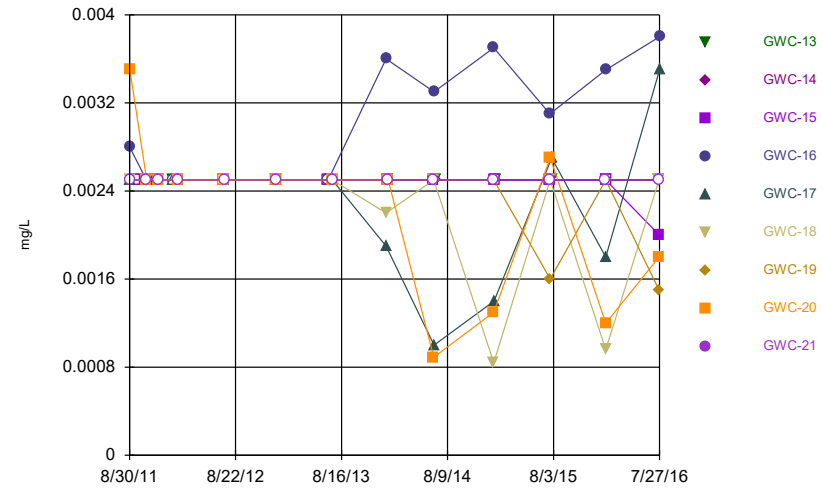
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Time Series



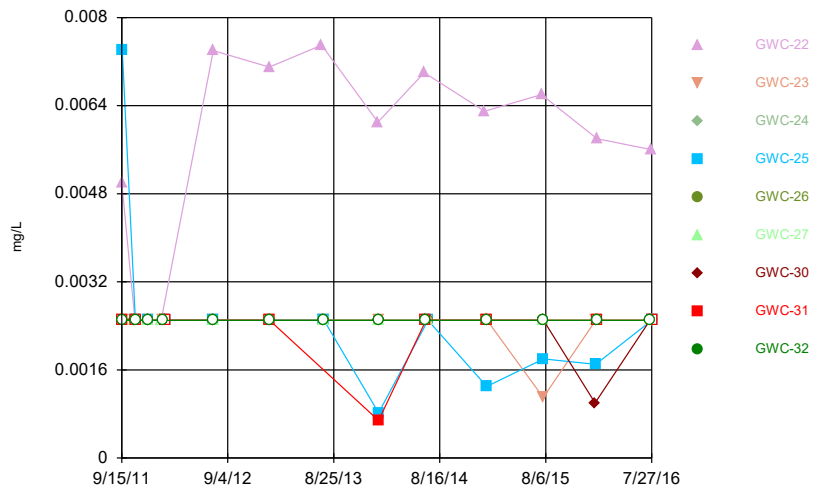
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



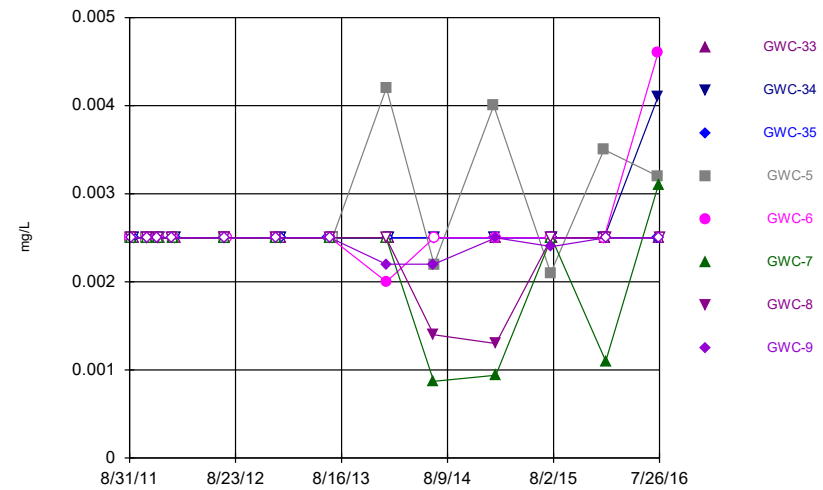
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Time Series



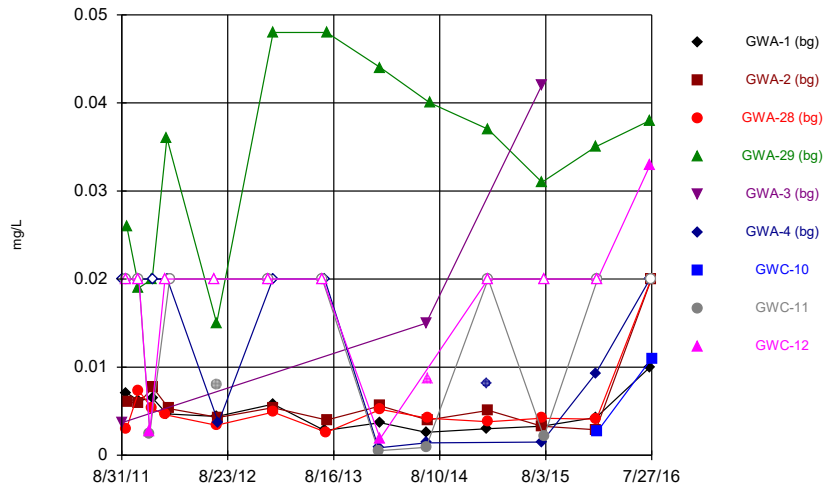
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Time Series



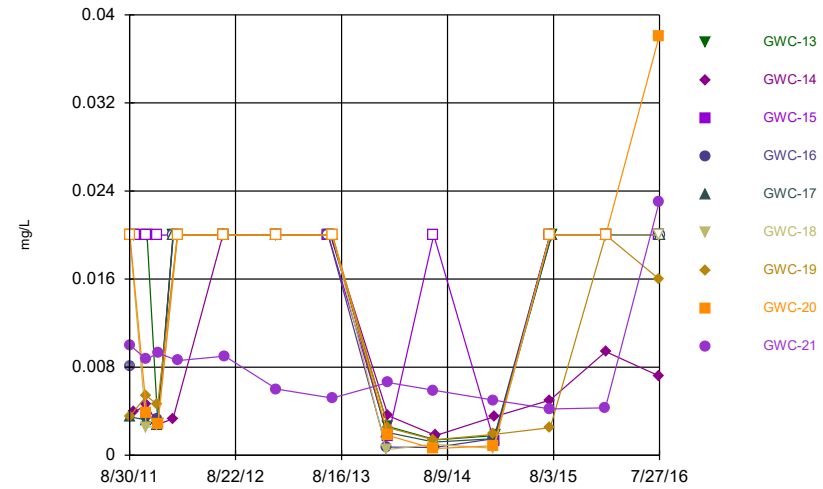
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



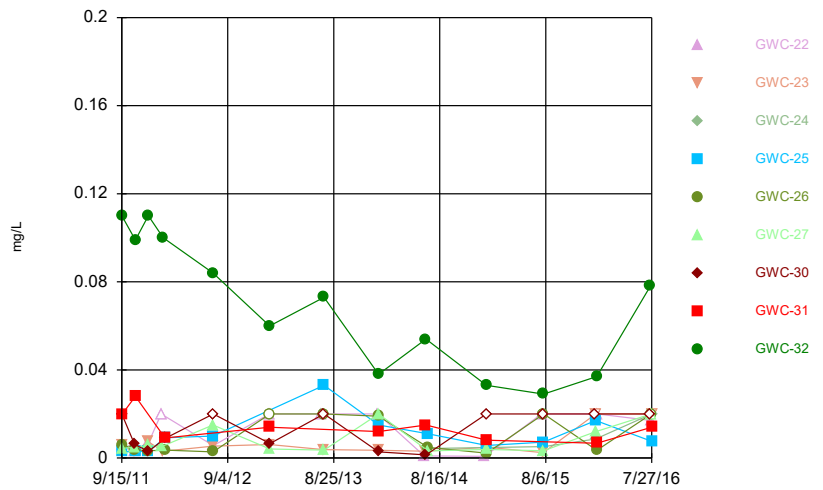
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



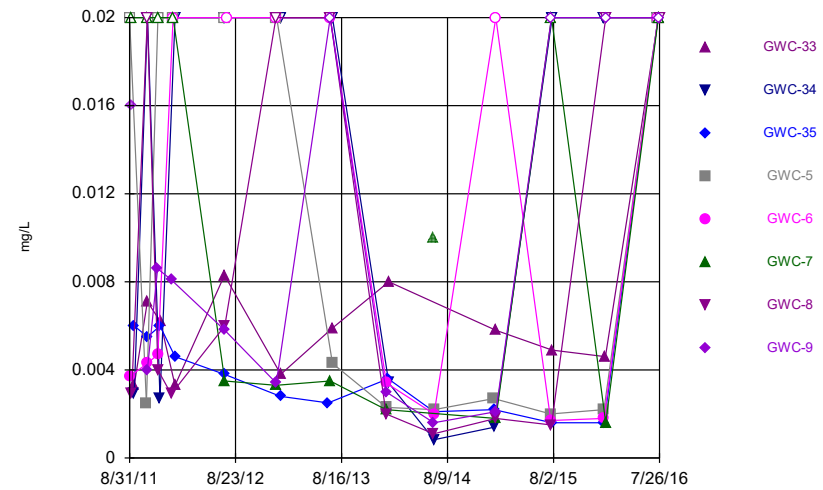
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Zinc Analysis Run 1/4/2017 1:51 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Zinc Analysis Run 1/4/2017 1:51 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Landfill

APPENDIX C – March 2020 Cation and Anion Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-103652-1

Client Project/Site: CCR - Plant Wansley Landfill Add't
Sampling Event: Wansley Landfill Federal (Reference)

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/6/2020 9:36:00 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Job ID: 180-103652-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-103652-1

Comments

No additional comments.

Receipt

The samples were received on 3/16/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103652-1	GWC-30	Ground Water	03/11/20 14:40	03/16/20 09:00	
180-103652-2	GWC-7	Ground Water	03/12/20 11:00	03/16/20 09:00	
180-103652-3	GWC-8	Ground Water	03/12/20 12:15	03/16/20 09:00	
180-103652-4	GWC-33	Ground Water	03/12/20 13:24	03/16/20 09:00	
180-103652-5	GWC-13	Ground Water	03/12/20 14:35	03/16/20 09:00	
180-103652-6	GWC-24	Ground Water	03/12/20 11:35	03/16/20 09:00	
180-103652-7	GWC-25	Ground Water	03/12/20 13:25	03/16/20 09:00	
180-103652-8	GWC-27	Ground Water	03/12/20 14:55	03/16/20 09:00	
180-103652-9	GWC-26	Ground Water	03/13/20 09:10	03/16/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-30

Date Collected: 03/11/20 14:40

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 08:42	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 00:27	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 08:41	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/11/20 14:40	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-7

Date Collected: 03/12/20 11:00

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 10:17	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 00:30	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 08:56	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 11:00	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 09:29	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 00:55	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 09:03	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 12:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-33

Date Collected: 03/12/20 13:24

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 11:20	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 00:58	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 09:10	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 13:24	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-13

Date Collected: 03/12/20 14:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 11:36	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 01:02	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 09:17	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 14:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-24

Date Collected: 03/12/20 11:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 11:52	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 01:05	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 09:24	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 11:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-25

Date Collected: 03/12/20 13:25

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 12:07	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 01:09	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 09:31	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 13:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-27

Date Collected: 03/12/20 14:55

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 12:23	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 01:12	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 09:22	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/12/20 14:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-26

Date Collected: 03/13/20 09:10

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310904	03/24/20 12:39	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311031	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311972	04/03/20 01:23	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 09:29	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/13/20 09:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

WTR = Bill Reinheimer



Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-30

Lab Sample ID: 180-103652-1

Date Collected: 03/11/20 14:40

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			03/24/20 08:42	1
Sulfate	3.6		1.0	0.38	mg/L			03/24/20 08:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.1		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:27	1
Sodium	6.4		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 00:27	1
Potassium	1.8		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 00:27	1
Magnesium	1.4		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 00:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	27		5.0	5.0	mg/L			03/20/20 08:41	1
Bicarbonate Alkalinity as CaCO3	27		5.0	5.0	mg/L			03/20/20 08:41	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 08:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.04				SU			03/11/20 14:40	1

Client Sample ID: GWC-7

Lab Sample ID: 180-103652-2

Date Collected: 03/12/20 11:00

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.32	mg/L			03/24/20 10:17	1
Sulfate	54		1.0	0.38	mg/L			03/24/20 10:17	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:30	1
Sodium	37		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 00:30	1
Potassium	1.3		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 00:30	1
Magnesium	40		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 00:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	270		5.0	5.0	mg/L			03/20/20 08:56	1
Bicarbonate Alkalinity as CaCO3	270		5.0	5.0	mg/L			03/20/20 08:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 08:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.44				SU			03/12/20 11:00	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-8

Date Collected: 03/12/20 12:15

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-3

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.32	mg/L			03/24/20 09:29	1
Sulfate	20		1.0	0.38	mg/L			03/24/20 09:29	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:55	1
Sodium	4.5		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 00:55	1
Potassium	2.1		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 00:55	1
Magnesium	8.5		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 00:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	68		5.0	5.0	mg/L			03/20/20 09:03	1
Bicarbonate Alkalinity as CaCO3	68		5.0	5.0	mg/L			03/20/20 09:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/12/20 12:15	1

Client Sample ID: GWC-33

Date Collected: 03/12/20 13:24

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-4

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			03/24/20 11:20	1
Sulfate	12		1.0	0.38	mg/L			03/24/20 11:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:58	1
Sodium	12		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 00:58	1
Potassium	2.7		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 00:58	1
Magnesium	2.2		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 00:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	61		5.0	5.0	mg/L			03/20/20 09:10	1
Bicarbonate Alkalinity as CaCO3	61		5.0	5.0	mg/L			03/20/20 09:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.29				SU			03/12/20 13:24	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-13

Date Collected: 03/12/20 14:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-5

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			03/24/20 11:36	1
Sulfate	4.3		1.0	0.38	mg/L			03/24/20 11:36	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.3		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:02	1
Sodium	6.3		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 01:02	1
Potassium	1.4		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 01:02	1
Magnesium	1.4		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 01:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	26		5.0	5.0	mg/L			03/20/20 09:17	1
Bicarbonate Alkalinity as CaCO3	26		5.0	5.0	mg/L			03/20/20 09:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			03/12/20 14:35	1

Client Sample ID: GWC-24

Date Collected: 03/12/20 11:35

Date Received: 03/16/20 09:00

Lab Sample ID: 180-103652-6

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.4		1.0	0.32	mg/L			03/24/20 11:52	1
Sulfate	2.4		1.0	0.38	mg/L			03/24/20 11:52	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.42	J	0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:05	1
Sodium	4.7		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 01:05	1
Potassium	0.62		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 01:05	1
Magnesium	0.38	J	0.50	0.083	mg/L		03/25/20 07:30	04/03/20 01:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/20/20 09:24	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:24	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.33				SU			03/12/20 11:35	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-25

Lab Sample ID: 180-103652-7

Date Collected: 03/12/20 13:25

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.32	mg/L			03/24/20 12:07	1
Sulfate	13		1.0	0.38	mg/L			03/24/20 12:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8.9		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:09	1
Sodium	4.9		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 01:09	1
Potassium	2.7		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 01:09	1
Magnesium	3.4		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 01:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	23		5.0	5.0	mg/L			03/20/20 09:31	1
Bicarbonate Alkalinity as CaCO3	23		5.0	5.0	mg/L			03/20/20 09:31	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 09:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.40				SU			03/12/20 13:25	1

Client Sample ID: GWC-27

Lab Sample ID: 180-103652-8

Date Collected: 03/12/20 14:55

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/24/20 12:23	1
Sulfate	2.0		1.0	0.38	mg/L			03/24/20 12:23	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.94		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:12	1
Sodium	2.5		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 01:12	1
Potassium	3.7		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 01:12	1
Magnesium	0.30	J	0.50	0.083	mg/L		03/25/20 07:30	04/03/20 01:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	9.2		5.0	5.0	mg/L			03/21/20 09:22	1
Bicarbonate Alkalinity as CaCO3	9.2		5.0	5.0	mg/L			03/21/20 09:22	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			03/12/20 14:55	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Client Sample ID: GWC-26

Lab Sample ID: 180-103652-9

Date Collected: 03/13/20 09:10

Matrix: Ground Water

Date Received: 03/16/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.32	mg/L			03/24/20 12:39	1
Sulfate	2.6		1.0	0.38	mg/L			03/24/20 12:39	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2.3		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:23	1
Sodium	4.0		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 01:23	1
Potassium	2.3		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 01:23	1
Magnesium	2.1		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 01:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	12		5.0	5.0	mg/L			03/21/20 09:29	1
Bicarbonate Alkalinity as CaCO3	12		5.0	5.0	mg/L			03/21/20 09:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:29	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.52				SU			03/13/20 09:10	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-310904/6
Matrix: Water
Analysis Batch: 310904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/24/20 08:10	1
Sulfate	<0.38		1.0	0.38	mg/L			03/24/20 08:10	1

Lab Sample ID: LCS 180-310904/5
Matrix: Water
Analysis Batch: 310904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.2		mg/L		98	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: 180-103652-1 MS
Matrix: Ground Water
Analysis Batch: 310904

Client Sample ID: GWC-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	25.9		mg/L		98	80 - 120
Sulfate	3.6		25.0	27.3		mg/L		95	80 - 120

Lab Sample ID: 180-103652-1 MSD
Matrix: Ground Water
Analysis Batch: 310904

Client Sample ID: GWC-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	25.5		mg/L		96	80 - 120	2	20
Sulfate	3.6		25.0	25.9		mg/L		89	80 - 120	5	20

Lab Sample ID: 180-103652-3 MS
Matrix: Ground Water
Analysis Batch: 310904

Client Sample ID: GWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.0		25.0	27.3		mg/L		97	80 - 120
Sulfate	20		25.0	42.6		mg/L		92	80 - 120

Lab Sample ID: 180-103652-3 MSD
Matrix: Ground Water
Analysis Batch: 310904

Client Sample ID: GWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.0		25.0	28.1		mg/L		101	80 - 120	3	20
Sulfate	20		25.0	42.7		mg/L		93	80 - 120	0	20

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-311031/1-A
Matrix: Water
Analysis Batch: 311972

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 00:13	1
Sodium	<0.35		0.50	0.35	mg/L		03/25/20 07:30	04/03/20 00:13	1
Potassium	<0.16		0.50	0.16	mg/L		03/25/20 07:30	04/03/20 00:13	1
Magnesium	<0.083		0.50	0.083	mg/L		03/25/20 07:30	04/03/20 00:13	1

Lab Sample ID: LCS 180-311031/2-A
Matrix: Water
Analysis Batch: 311972

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	25.0	27.6		mg/L		110	80 - 120
Sodium	25.0	25.9		mg/L		104	80 - 120
Potassium	25.0	23.5		mg/L		94	80 - 120
Magnesium	25.0	23.9		mg/L		96	80 - 120

Lab Sample ID: 180-103652-2 MS
Matrix: Ground Water
Analysis Batch: 311972

Client Sample ID: GWC-7
Prep Type: Total Recoverable
Prep Batch: 311031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	47		25.0	76.0		mg/L		114	75 - 125
Sodium	37		25.0	60.0		mg/L		94	75 - 125
Potassium	1.3		25.0	25.1		mg/L		95	75 - 125
Magnesium	40		25.0	63.8		mg/L		95	75 - 125

Lab Sample ID: 180-103652-2 MSD
Matrix: Ground Water
Analysis Batch: 311972

Client Sample ID: GWC-7
Prep Type: Total Recoverable
Prep Batch: 311031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	47		25.0	75.0		mg/L		110	75 - 125	1	20
Sodium	37		25.0	60.3		mg/L		95	75 - 125	1	20
Potassium	1.3		25.0	25.7		mg/L		98	75 - 125	2	20
Magnesium	40		25.0	63.9		mg/L		96	75 - 125	0	20

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-310659/15
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/20/20 08:34	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 08:34	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 08:34	1

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-310659/14
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	229		mg/L		91	90 - 110

Lab Sample ID: 180-103652-1 DU
Matrix: Ground Water
Analysis Batch: 310659

Client Sample ID: GWC-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	27		26.5		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	27		26.5		mg/L		3	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-310709/28
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1

Lab Sample ID: LCS 180-310709/27
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	233		mg/L		93	90 - 110

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

HPLC/IC

Analysis Batch: 310904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-1	GWC-30	Total/NA	Ground Water	300.0	
180-103652-2	GWC-7	Total/NA	Ground Water	300.0	
180-103652-3	GWC-8	Total/NA	Ground Water	300.0	
180-103652-4	GWC-33	Total/NA	Ground Water	300.0	
180-103652-5	GWC-13	Total/NA	Ground Water	300.0	
180-103652-6	GWC-24	Total/NA	Ground Water	300.0	
180-103652-7	GWC-25	Total/NA	Ground Water	300.0	
180-103652-8	GWC-27	Total/NA	Ground Water	300.0	
180-103652-9	GWC-26	Total/NA	Ground Water	300.0	
MB 180-310904/6	Method Blank	Total/NA	Water	300.0	
LCS 180-310904/5	Lab Control Sample	Total/NA	Water	300.0	
180-103652-1 MS	GWC-30	Total/NA	Ground Water	300.0	
180-103652-1 MSD	GWC-30	Total/NA	Ground Water	300.0	
180-103652-3 MS	GWC-8	Total/NA	Ground Water	300.0	
180-103652-3 MSD	GWC-8	Total/NA	Ground Water	300.0	

Metals

Prep Batch: 311031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-1	GWC-30	Total Recoverable	Ground Water	3005A	
180-103652-2	GWC-7	Total Recoverable	Ground Water	3005A	
180-103652-3	GWC-8	Total Recoverable	Ground Water	3005A	
180-103652-4	GWC-33	Total Recoverable	Ground Water	3005A	
180-103652-5	GWC-13	Total Recoverable	Ground Water	3005A	
180-103652-6	GWC-24	Total Recoverable	Ground Water	3005A	
180-103652-7	GWC-25	Total Recoverable	Ground Water	3005A	
180-103652-8	GWC-27	Total Recoverable	Ground Water	3005A	
180-103652-9	GWC-26	Total Recoverable	Ground Water	3005A	
MB 180-311031/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311031/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103652-2 MS	GWC-7	Total Recoverable	Ground Water	3005A	
180-103652-2 MSD	GWC-7	Total Recoverable	Ground Water	3005A	

Analysis Batch: 311972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-1	GWC-30	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-2	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-3	GWC-8	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-4	GWC-33	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-5	GWC-13	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-6	GWC-24	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-7	GWC-25	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-8	GWC-27	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-9	GWC-26	Total Recoverable	Ground Water	EPA 6020B	311031
MB 180-311031/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311031
LCS 180-311031/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311031
180-103652-2 MS	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311031
180-103652-2 MSD	GWC-7	Total Recoverable	Ground Water	EPA 6020B	311031

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103652-1

General Chemistry

Analysis Batch: 310659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-1	GWC-30	Total/NA	Ground Water	SM2320 B	
180-103652-2	GWC-7	Total/NA	Ground Water	SM2320 B	
180-103652-3	GWC-8	Total/NA	Ground Water	SM2320 B	
180-103652-4	GWC-33	Total/NA	Ground Water	SM2320 B	
180-103652-5	GWC-13	Total/NA	Ground Water	SM2320 B	
180-103652-6	GWC-24	Total/NA	Ground Water	SM2320 B	
180-103652-7	GWC-25	Total/NA	Ground Water	SM2320 B	
MB 180-310659/15	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-310659/14	Lab Control Sample	Total/NA	Water	SM2320 B	
180-103652-1 DU	GWC-30	Total/NA	Ground Water	SM2320 B	

Analysis Batch: 310709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-8	GWC-27	Total/NA	Ground Water	SM2320 B	
180-103652-9	GWC-26	Total/NA	Ground Water	SM2320 B	
MB 180-310709/28	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-310709/27	Lab Control Sample	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103652-1	GWC-30	Total/NA	Ground Water	Field Sampling	
180-103652-2	GWC-7	Total/NA	Ground Water	Field Sampling	
180-103652-3	GWC-8	Total/NA	Ground Water	Field Sampling	
180-103652-4	GWC-33	Total/NA	Ground Water	Field Sampling	
180-103652-5	GWC-13	Total/NA	Ground Water	Field Sampling	
180-103652-6	GWC-24	Total/NA	Ground Water	Field Sampling	
180-103652-7	GWC-25	Total/NA	Ground Water	Field Sampling	
180-103652-8	GWC-27	Total/NA	Ground Water	Field Sampling	
180-103652-9	GWC-26	Total/NA	Ground Water	Field Sampling	

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: SCS10347656 Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill Additional Site: Wansley Landfill		Sampler: O. Figueira Lab PM: Bortot, Veronica Phone: (770) 544-5998 E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSO#: Preservation Codes: H - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Analysis Requested Barcode: 180-103652 Chain of Custody Special Instructions/Note: Total Number of containers:	
Sample Identification GWC-30 GWC-7 GWC-8 GWC-33 GWC-13 GWC-24 GWC-25 GWC-27 GWC-26	Matrix (W=water, S=solid, O=wastoid, BT=TISSUE, A=AP) Water Water Water Water Water Water Water Water Water	Sample Type (C=Comp, G=grab) G G G G G G G G G	Sample Time 1440 1100 1215 1324 1435 1135 1325 1455 0910
Sample Date 3-11-20 3-17-20 3-17-20 3-17-20 3-12-20 3-12-20 3-12-20 3-12-20 3-13-20	Field Filtered Sample (Yes or No) N N N N N N N N N	Perform MS/MSD (Yes or No) D N N N N N N N N	6020 - Ca, Mg, Na, K 300 - Cl, SO4 2320 - Carbonate & Bicarbonate Alkalinity
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Company: _____ Relinquished by: _____ Company: _____ Relinquished by: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103652-1

Login Number: 103652

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-103743-1

Client Project/Site: CCR - Plant Wansley Landfill Add't

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/10/2020 4:37:57 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Job ID: 180-103743-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-103743-1**

Comments

No additional comments.

Receipt

The samples were received on 3/19/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 2.9° C and 3.9° C.

Receipt Exceptions

Consultant provided a revised COC; DUP-3 sample does not need analyzed

GC Semi VOA

Methods 300.0, 9056A: The matrix spike / matrix spike duplicate (MS/MSD) precision for Fluoride for analytical batch 180-311618 was outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20 *
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103743-1	GWC-9	Ground Water	03/16/20 11:33	03/19/20 08:30	
180-103743-2	GWC-11	Ground Water	03/16/20 14:27	03/19/20 08:30	
180-103743-3	GWC-15	Ground Water	03/16/20 15:31	03/19/20 08:30	
180-103743-4	GWC-10	Ground Water	03/17/20 10:15	03/19/20 08:30	
180-103743-5	GWC-14	Ground Water	03/17/20 13:50	03/19/20 08:30	
180-103743-6	GWC-16	Ground Water	03/17/20 14:50	03/19/20 08:30	
180-103743-8	GWC-6	Ground Water	03/16/20 11:20	03/19/20 08:30	
180-103743-9	GWC-5	Ground Water	03/16/20 12:45	03/19/20 08:30	
180-103743-10	GWC-31	Ground Water	03/17/20 10:00	03/19/20 08:30	
180-103743-11	GWC-18	Ground Water	03/17/20 13:10	03/19/20 08:30	
180-103743-12	GWC-17	Ground Water	03/17/20 14:30	03/19/20 08:30	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-9

Date Collected: 03/16/20 11:33

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 19:11	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 15:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 11:18	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 11:33	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-11

Date Collected: 03/16/20 14:27

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 19:27	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 15:47	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 11:25	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 14:27	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-15

Date Collected: 03/16/20 15:31

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 19:43	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 15:50	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 11:32	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 15:31	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-10

Date Collected: 03/17/20 10:15

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 19:59	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 15:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 23:01	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 10:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-14

Date Collected: 03/17/20 13:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 20:46	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 15:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 23:08	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 13:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-16

Date Collected: 03/17/20 14:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 21:02	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 23:15	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 14:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-6

Date Collected: 03/16/20 11:20

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 21:18	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:18	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 12:11	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 11:20	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-5

Date Collected: 03/16/20 12:45

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 22:05	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:21	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/20/20 14:43	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/16/20 12:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-31

Date Collected: 03/17/20 10:00

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 22:52	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310709	03/21/20 13:38	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 10:00	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-18

Date Collected: 03/17/20 13:10

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 23:08	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/21/20 00:00	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 13:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-17

Date Collected: 03/17/20 14:30

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311618	03/31/20 23:56	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311073	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312569	04/09/20 16:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310659	03/21/20 00:14	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310781	03/17/20 14:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

RSK = Robert Kurtz

SAC = Shawn Clemente

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-9

Lab Sample ID: 180-103743-1

Date Collected: 03/16/20 11:33

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.32	mg/L			03/31/20 19:11	1
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 19:11	1
Sulfate	11		1.0	0.38	mg/L			03/31/20 19:11	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8.9		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:22	1
Sodium	2.2		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:22	1
Potassium	2.9		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:22	1
Magnesium	4.9		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	48		5.0	5.0	mg/L			03/21/20 11:18	1
Bicarbonate Alkalinity as CaCO3	48		5.0	5.0	mg/L			03/21/20 11:18	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 11:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.80				SU			03/16/20 11:33	1

Client Sample ID: GWC-11

Lab Sample ID: 180-103743-2

Date Collected: 03/16/20 14:27

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.85	J	1.0	0.32	mg/L			03/31/20 19:27	1
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 19:27	1
Sulfate	0.69	J	1.0	0.38	mg/L			03/31/20 19:27	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.1		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:47	1
Sodium	0.65		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:47	1
Potassium	1.8		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:47	1
Magnesium	1.1		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	33		5.0	5.0	mg/L			03/21/20 11:25	1
Bicarbonate Alkalinity as CaCO3	33		5.0	5.0	mg/L			03/21/20 11:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 11:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.92				SU			03/16/20 14:27	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-15

Lab Sample ID: 180-103743-3

Date Collected: 03/16/20 15:31

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.32	mg/L			03/31/20 19:43	1
Fluoride	0.027	J	0.10	0.026	mg/L			03/31/20 19:43	1
Sulfate	2.4		1.0	0.38	mg/L			03/31/20 19:43	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:50	1
Sodium	11		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:50	1
Potassium	2.2		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:50	1
Magnesium	3.8		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	52		5.0	5.0	mg/L			03/21/20 11:32	1
Bicarbonate Alkalinity as CaCO3	52		5.0	5.0	mg/L			03/21/20 11:32	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 11:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.58				SU			03/16/20 15:31	1

Client Sample ID: GWC-10

Lab Sample ID: 180-103743-4

Date Collected: 03/17/20 10:15

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.32	mg/L			03/31/20 19:59	1
Fluoride	0.55		0.10	0.026	mg/L			03/31/20 19:59	1
Sulfate	16		1.0	0.38	mg/L			03/31/20 19:59	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:54	1
Sodium	20		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:54	1
Potassium	1.7		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:54	1
Magnesium	5.5		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	74		5.0	5.0	mg/L			03/20/20 23:01	1
Bicarbonate Alkalinity as CaCO3	74		5.0	5.0	mg/L			03/20/20 23:01	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 23:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.96				SU			03/17/20 10:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-14

Lab Sample ID: 180-103743-5

Date Collected: 03/17/20 13:50

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.32	mg/L			03/31/20 20:46	1
Fluoride	0.068	J	0.10	0.026	mg/L			03/31/20 20:46	1
Sulfate	12		1.0	0.38	mg/L			03/31/20 20:46	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	40		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:57	1
Sodium	6.3		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:57	1
Potassium	4.0		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:57	1
Magnesium	26		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	40		5.0	5.0	mg/L			03/20/20 23:08	1
Bicarbonate Alkalinity as CaCO3	40		5.0	5.0	mg/L			03/20/20 23:08	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 23:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.63				SU			03/17/20 13:50	1

Client Sample ID: GWC-16

Lab Sample ID: 180-103743-6

Date Collected: 03/17/20 14:50

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.32	mg/L			03/31/20 21:02	1
Fluoride	0.069	J	0.10	0.026	mg/L			03/31/20 21:02	1
Sulfate	0.85	J	1.0	0.38	mg/L			03/31/20 21:02	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7.4		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:01	1
Sodium	9.2		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:01	1
Potassium	0.74		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:01	1
Magnesium	3.8		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	50		5.0	5.0	mg/L			03/20/20 23:15	1
Bicarbonate Alkalinity as CaCO3	50		5.0	5.0	mg/L			03/20/20 23:15	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 23:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			03/17/20 14:50	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-6

Date Collected: 03/16/20 11:20

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-8

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.32	mg/L			03/31/20 21:18	1
Fluoride	0.028	J	0.10	0.026	mg/L			03/31/20 21:18	1
Sulfate	8.4		1.0	0.38	mg/L			03/31/20 21:18	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:18	1
Sodium	7.6		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:18	1
Potassium	1.2		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:18	1
Magnesium	8.5		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	68		5.0	5.0	mg/L			03/21/20 12:11	1
Bicarbonate Alkalinity as CaCO3	68		5.0	5.0	mg/L			03/21/20 12:11	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 12:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/16/20 11:20	1

Client Sample ID: GWC-5

Date Collected: 03/16/20 12:45

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103743-9

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.32	mg/L			03/31/20 22:05	1
Fluoride	0.035	J F2	0.10	0.026	mg/L			03/31/20 22:05	1
Sulfate	29		1.0	0.38	mg/L			03/31/20 22:05	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:21	1
Sodium	10		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:21	1
Potassium	1.5		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:21	1
Magnesium	14		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	110		5.0	5.0	mg/L			03/20/20 14:43	1
Bicarbonate Alkalinity as CaCO3	110		5.0	5.0	mg/L			03/20/20 14:43	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 14:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.35				SU			03/16/20 12:45	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-31

Lab Sample ID: 180-103743-10

Date Collected: 03/17/20 10:00

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			03/31/20 22:52	1
Fluoride	1.0		0.10	0.026	mg/L			03/31/20 22:52	1
Sulfate	6.8		1.0	0.38	mg/L			03/31/20 22:52	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	10		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:25	1
Sodium	9.7		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:25	1
Potassium	1.8		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:25	1
Magnesium	2.5		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	39		5.0	5.0	mg/L			03/21/20 13:38	1
Bicarbonate Alkalinity as CaCO3	39		5.0	5.0	mg/L			03/21/20 13:38	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 13:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.15				SU			03/17/20 10:00	1

Client Sample ID: GWC-18

Lab Sample ID: 180-103743-11

Date Collected: 03/17/20 13:10

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.32	mg/L			03/31/20 23:08	1
Fluoride	0.045	J	0.10	0.026	mg/L			03/31/20 23:08	1
Sulfate	0.84	J	1.0	0.38	mg/L			03/31/20 23:08	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7.6		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:35	1
Sodium	9.2		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:35	1
Potassium	1.1		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:35	1
Magnesium	3.1		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	48		5.0	5.0	mg/L			03/21/20 00:00	1
Bicarbonate Alkalinity as CaCO3	48		5.0	5.0	mg/L			03/21/20 00:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 00:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.88				SU			03/17/20 13:10	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Client Sample ID: GWC-17

Lab Sample ID: 180-103743-12

Date Collected: 03/17/20 14:30

Matrix: Ground Water

Date Received: 03/19/20 08:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/31/20 23:56	1
Fluoride	0.046	J	0.10	0.026	mg/L			03/31/20 23:56	1
Sulfate	0.97	J	1.0	0.38	mg/L			03/31/20 23:56	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8.5		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 16:39	1
Sodium	10		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 16:39	1
Potassium	0.90		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 16:39	1
Magnesium	3.8		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	54		5.0	5.0	mg/L			03/21/20 00:14	1
Bicarbonate Alkalinity as CaCO3	54		5.0	5.0	mg/L			03/21/20 00:14	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 00:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.09				SU			03/17/20 14:30	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-311618/46
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/31/20 21:49	1
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 21:49	1
Sulfate	<0.38		1.0	0.38	mg/L			03/31/20 21:49	1

Lab Sample ID: MB 180-311618/6
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/31/20 09:09	1
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 09:09	1
Sulfate	<0.38		1.0	0.38	mg/L			03/31/20 09:09	1

Lab Sample ID: LCS 180-311618/45
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.9		mg/L		98	90 - 110
Fluoride	2.50	2.37		mg/L		95	90 - 110
Sulfate	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: LCS 180-311618/5
Matrix: Water
Analysis Batch: 311618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.1		mg/L		98	90 - 110
Fluoride	2.50	2.40		mg/L		96	90 - 110
Sulfate	50.0	48.9		mg/L		98	90 - 110

Lab Sample ID: 180-103743-9 MS
Matrix: Ground Water
Analysis Batch: 311618

Client Sample ID: GWC-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.8		25.0	32.4		mg/L		90	80 - 120
Fluoride	0.035	J F2	1.25	1.09		mg/L		85	80 - 120
Sulfate	29		25.0	49.7		mg/L		83	80 - 120

Lab Sample ID: 180-103743-9 MSD
Matrix: Ground Water
Analysis Batch: 311618

Client Sample ID: GWC-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.8		25.0	37.2		mg/L		110	80 - 120	14	20
Fluoride	0.035	J F2	1.25	1.43	F2	mg/L		111	80 - 120	27	20
Sulfate	29		25.0	57.7		mg/L		115	80 - 120	15	20

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-311073/1-A
Matrix: Water
Analysis Batch: 312569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:15	1
Sodium	<0.35		0.50	0.35	mg/L		03/25/20 11:00	04/09/20 15:15	1
Potassium	<0.16		0.50	0.16	mg/L		03/25/20 11:00	04/09/20 15:15	1
Magnesium	<0.083		0.50	0.083	mg/L		03/25/20 11:00	04/09/20 15:15	1

Lab Sample ID: LCS 180-311073/2-A
Matrix: Water
Analysis Batch: 312569

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	28.6		mg/L		115	80 - 120
Sodium	25.0	26.1		mg/L		104	80 - 120
Potassium	25.0	24.7		mg/L		99	80 - 120
Magnesium	25.0	25.1		mg/L		100	80 - 120

Lab Sample ID: 180-103743-1 MS
Matrix: Ground Water
Analysis Batch: 312569

Client Sample ID: GWC-9
Prep Type: Total Recoverable
Prep Batch: 311073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	8.9		25.0	37.2		mg/L		113	75 - 125
Sodium	2.2		25.0	27.9		mg/L		103	75 - 125
Potassium	2.9		25.0	27.3		mg/L		98	75 - 125
Magnesium	4.9		25.0	29.9		mg/L		100	75 - 125

Lab Sample ID: 180-103743-1 MSD
Matrix: Ground Water
Analysis Batch: 312569

Client Sample ID: GWC-9
Prep Type: Total Recoverable
Prep Batch: 311073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	8.9		25.0	37.4		mg/L		114	75 - 125	1	20
Sodium	2.2		25.0	27.7		mg/L		102	75 - 125	1	20
Potassium	2.9		25.0	27.0		mg/L		97	75 - 125	1	20
Magnesium	4.9		25.0	29.8		mg/L		99	75 - 125	0	20

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-310659/111
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/20/20 20:49	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 20:49	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 20:49	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-310659/135
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/20/20 23:53	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 23:53	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 23:53	1

Lab Sample ID: MB 180-310659/63
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/20/20 14:36	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 14:36	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/20/20 14:36	1

Lab Sample ID: LCS 180-310659/110
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	237		mg/L		95	90 - 110

Lab Sample ID: LCS 180-310659/134
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	243		mg/L		97	90 - 110

Lab Sample ID: LCS 180-310659/62
Matrix: Water
Analysis Batch: 310659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	232		mg/L		93	90 - 110

Lab Sample ID: 180-103743-9 DU
Matrix: Ground Water
Analysis Batch: 310659

Client Sample ID: GWC-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	110		110		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	110		110		mg/L		4	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-103743-11 DU
Matrix: Ground Water
Analysis Batch: 310659

Client Sample ID: GWC-18
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity as CaCO3 to pH 4.5	48		46.9		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	48		46.9		mg/L		3	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-310709/28
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 09:04	1

Lab Sample ID: MB 180-310709/52
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/21/20 12:04	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 12:04	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/20 12:04	1

Lab Sample ID: LCS 180-310709/27
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCS 180-310709/51
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

HPLC/IC

Analysis Batch: 311618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-1	GWC-9	Total/NA	Ground Water	300.0	
180-103743-2	GWC-11	Total/NA	Ground Water	300.0	
180-103743-3	GWC-15	Total/NA	Ground Water	300.0	
180-103743-4	GWC-10	Total/NA	Ground Water	300.0	
180-103743-5	GWC-14	Total/NA	Ground Water	300.0	
180-103743-6	GWC-16	Total/NA	Ground Water	300.0	
180-103743-8	GWC-6	Total/NA	Ground Water	300.0	
180-103743-9	GWC-5	Total/NA	Ground Water	300.0	
180-103743-10	GWC-31	Total/NA	Ground Water	300.0	
180-103743-11	GWC-18	Total/NA	Ground Water	300.0	
180-103743-12	GWC-17	Total/NA	Ground Water	300.0	
MB 180-311618/46	Method Blank	Total/NA	Water	300.0	
MB 180-311618/6	Method Blank	Total/NA	Water	300.0	
LCS 180-311618/45	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-311618/5	Lab Control Sample	Total/NA	Water	300.0	
180-103743-9 MS	GWC-5	Total/NA	Ground Water	300.0	
180-103743-9 MSD	GWC-5	Total/NA	Ground Water	300.0	

Metals

Prep Batch: 311073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-1	GWC-9	Total Recoverable	Ground Water	3005A	
180-103743-2	GWC-11	Total Recoverable	Ground Water	3005A	
180-103743-3	GWC-15	Total Recoverable	Ground Water	3005A	
180-103743-4	GWC-10	Total Recoverable	Ground Water	3005A	
180-103743-5	GWC-14	Total Recoverable	Ground Water	3005A	
180-103743-6	GWC-16	Total Recoverable	Ground Water	3005A	
180-103743-8	GWC-6	Total Recoverable	Ground Water	3005A	
180-103743-9	GWC-5	Total Recoverable	Ground Water	3005A	
180-103743-10	GWC-31	Total Recoverable	Ground Water	3005A	
180-103743-11	GWC-18	Total Recoverable	Ground Water	3005A	
180-103743-12	GWC-17	Total Recoverable	Ground Water	3005A	
MB 180-311073/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311073/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103743-1 MS	GWC-9	Total Recoverable	Ground Water	3005A	
180-103743-1 MSD	GWC-9	Total Recoverable	Ground Water	3005A	

Analysis Batch: 312569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-1	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-2	GWC-11	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-3	GWC-15	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-4	GWC-10	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-5	GWC-14	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-6	GWC-16	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-8	GWC-6	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-9	GWC-5	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-10	GWC-31	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-11	GWC-18	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-12	GWC-17	Total Recoverable	Ground Water	EPA 6020B	311073

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103743-1

Metals (Continued)

Analysis Batch: 312569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-311073/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311073
LCS 180-311073/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311073
180-103743-1 MS	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311073
180-103743-1 MSD	GWC-9	Total Recoverable	Ground Water	EPA 6020B	311073

General Chemistry

Analysis Batch: 310659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-4	GWC-10	Total/NA	Ground Water	SM2320 B	
180-103743-5	GWC-14	Total/NA	Ground Water	SM2320 B	
180-103743-6	GWC-16	Total/NA	Ground Water	SM2320 B	
180-103743-9	GWC-5	Total/NA	Ground Water	SM2320 B	
180-103743-11	GWC-18	Total/NA	Ground Water	SM2320 B	
180-103743-12	GWC-17	Total/NA	Ground Water	SM2320 B	
MB 180-310659/111	Method Blank	Total/NA	Water	SM2320 B	
MB 180-310659/135	Method Blank	Total/NA	Water	SM2320 B	
MB 180-310659/63	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-310659/110	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-310659/134	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-310659/62	Lab Control Sample	Total/NA	Water	SM2320 B	
180-103743-9 DU	GWC-5	Total/NA	Ground Water	SM2320 B	
180-103743-11 DU	GWC-18	Total/NA	Ground Water	SM2320 B	

Analysis Batch: 310709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-1	GWC-9	Total/NA	Ground Water	SM2320 B	
180-103743-2	GWC-11	Total/NA	Ground Water	SM2320 B	
180-103743-3	GWC-15	Total/NA	Ground Water	SM2320 B	
180-103743-8	GWC-6	Total/NA	Ground Water	SM2320 B	
180-103743-10	GWC-31	Total/NA	Ground Water	SM2320 B	
MB 180-310709/28	Method Blank	Total/NA	Water	SM2320 B	
MB 180-310709/52	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-310709/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-310709/51	Lab Control Sample	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103743-1	GWC-9	Total/NA	Ground Water	Field Sampling	
180-103743-2	GWC-11	Total/NA	Ground Water	Field Sampling	
180-103743-3	GWC-15	Total/NA	Ground Water	Field Sampling	
180-103743-4	GWC-10	Total/NA	Ground Water	Field Sampling	
180-103743-5	GWC-14	Total/NA	Ground Water	Field Sampling	
180-103743-6	GWC-16	Total/NA	Ground Water	Field Sampling	
180-103743-8	GWC-6	Total/NA	Ground Water	Field Sampling	
180-103743-9	GWC-5	Total/NA	Ground Water	Field Sampling	
180-103743-10	GWC-31	Total/NA	Ground Water	Field Sampling	
180-103743-11	GWC-18	Total/NA	Ground Water	Field Sampling	
180-103743-12	GWC-17	Total/NA	Ground Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

Client Information		Lab PM:		Carrier Tracking No(s):							
Client Contact: JoJu Abraham		Bortol, Veronica		All to TA ATL							
Company: Southern Company		E-Mail: veronica.bortol@testamericainc.com		COC No:							
Address: 241 Ralph McGill Blvd SE B10185		Phone: 770-594-5998		Page:							
City: Atlanta		Due Date Requested:		Job #:							
State, Zip: GA, 30308		TAT Requested (days):		Preservation Codes:							
Phone:		PO #: SCS10347656		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNB02 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Email: JAbraham@southerco.com		WO #:		Other:							
Project Name: CCR - Plant Wansley Landfill Additional		Project #: 18019922		Total Number of Containers							
Site: Wansley Landfill		SSOW#:		Special Instructions/Note:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=wastoid, BT=TISSUE, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 - Ca, Mg, Na, K	300 - Cl, SO4	2320 - Carbonate & Bicarbonate Alkalinity	
GWC-9	3-16-20	1133	G		Water	N	N	✓	✓	✓	2 pH = 5.80
GWC-11	3-16-20	1477	G		Water	N	N	✓	✓	✓	2 pH = 5.92
GWC-15	3-16-20	1531	G		Water	N	N	✓	✓	✓	2 pH = 6.58
GWC-10	3-17-20	1015	G		Water	N	N	✓	✓	✓	2 pH = 5.94
GWC-14	3-17-20	1350	G		Water	N	N	✓	✓	✓	2 pH = 5.63
GWC-16	3-17-20	1450	G		Water	N	N	✓	✓	✓	2 pH = 6.36
DUP-3	3-17-20		G		Water	N	N	✓	✓	✓	2
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Alc Park</i> Company: <i>ARC</i> Date/Time: <i>3-18-20 / 1620</i></p> <p>Relinquished by: <i>[Signature]</i> Company: <i>Company</i> Date/Time: <i>3-18-20 / 1621</i></p> <p>Relinquished by: <i>[Signature]</i> Company: <i>Company</i> Date/Time: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Custody Seal No.: _____</p> <p>Special Instructions/QC Requirements: 180-103743 Chain of Custody</p>											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103743-1

Login Number: 103743

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-103495-1

Client Project/Site: CCR - Plant Wansley Landfill Add't

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/15/2020 11:03:43 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Job ID: 180-103495-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-103495-1

Comments

No additional comments.

Receipt

The samples were received on 3/12/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	03-31-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103495-1	GWA-1	Ground Water	03/10/20 11:55	03/12/20 17:40	
180-103495-2	GWA-2	Water	03/10/20 13:35	03/12/20 17:40	
180-103495-3	GWA-3	Water	03/10/20 15:15	03/12/20 17:40	
180-103495-4	GWC-35	Water	03/11/20 10:35	03/12/20 17:40	
180-103495-5	GWC-34	Water	03/11/20 11:49	03/12/20 17:40	
180-103495-6	GWA-28	Water	03/10/20 11:30	03/12/20 17:40	
180-103495-7	GWA-29	Water	03/10/20 13:25	03/12/20 17:40	
180-103495-8	GWA-4	Water	03/10/20 15:05	03/12/20 17:40	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWA-1

Date Collected: 03/10/20 11:55

Date Received: 03/12/20 17:40

Lab Sample ID: 180-103495-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 10:12	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 21:49	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 18:45	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 11:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWA-2

Date Collected: 03/10/20 13:35

Date Received: 03/12/20 17:40

Lab Sample ID: 180-103495-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 11:29	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 21:53	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 18:59	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 13:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWA-3

Date Collected: 03/10/20 15:15

Date Received: 03/12/20 17:40

Lab Sample ID: 180-103495-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 13:19	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 21:56	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 19:06	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 15:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWC-35

Lab Sample ID: 180-103495-4

Date Collected: 03/11/20 10:35

Matrix: Water

Date Received: 03/12/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311429	03/28/20 12:17	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 22:00	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 23:34	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/11/20 10:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-34

Lab Sample ID: 180-103495-5

Date Collected: 03/11/20 11:49

Matrix: Water

Date Received: 03/12/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311429	03/28/20 13:04	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 22:10	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 23:42	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/11/20 11:49	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWA-28

Lab Sample ID: 180-103495-6

Date Collected: 03/10/20 11:30

Matrix: Water

Date Received: 03/12/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			310811	03/23/20 17:48	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 22:13	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 19:13	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 11:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWA-29

Lab Sample ID: 180-103495-7

Date Collected: 03/10/20 13:25

Matrix: Water

Date Received: 03/12/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311429	03/28/20 13:20	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 22:17	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 19:20	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 13:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWA-4

Lab Sample ID: 180-103495-8

Date Collected: 03/10/20 15:05

Matrix: Water

Date Received: 03/12/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			311429	03/28/20 14:07	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	310552	03/20/20 06:47	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			311485	03/28/20 22:20	WTR	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM2320 B		1			310412	03/17/20 19:27	AVS	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			310221	03/10/20 15:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

SAC = Shawn Clemente

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWA-1
 Date Collected: 03/10/20 11:55
 Date Received: 03/12/20 17:40

Lab Sample ID: 180-103495-1
 Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.32	mg/L			03/23/20 10:12	1
Sulfate	2.1		1.0	0.38	mg/L			03/23/20 10:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.96		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 21:49	1
Sodium	1.4		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 21:49	1
Potassium	1.0		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 21:49	1
Magnesium	0.72		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 21:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	5.9		5.0	5.0	mg/L			03/17/20 18:45	1
Bicarbonate Alkalinity as CaCO3	5.9		5.0	5.0	mg/L			03/17/20 18:45	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 18:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.38				SU			03/10/20 11:55	1

Client Sample ID: GWA-2
 Date Collected: 03/10/20 13:35
 Date Received: 03/12/20 17:40

Lab Sample ID: 180-103495-2
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.32	mg/L			03/23/20 11:29	1
Sulfate	3.5		1.0	0.38	mg/L			03/23/20 11:29	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.7		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 21:53	1
Sodium	3.1		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 21:53	1
Potassium	1.6		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 21:53	1
Magnesium	2.2		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 21:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	30		5.0	5.0	mg/L			03/17/20 18:59	1
Bicarbonate Alkalinity as CaCO3	30		5.0	5.0	mg/L			03/17/20 18:59	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 18:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.72				SU			03/10/20 13:35	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWA-3

Lab Sample ID: 180-103495-3

Date Collected: 03/10/20 15:15

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.32	mg/L			03/23/20 13:19	1
Sulfate	18		1.0	0.38	mg/L			03/23/20 13:19	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 21:56	1
Sodium	12		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 21:56	1
Potassium	3.0		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 21:56	1
Magnesium	12		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 21:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	38		5.0	5.0	mg/L			03/17/20 19:06	1
Bicarbonate Alkalinity as CaCO3	38		5.0	5.0	mg/L			03/17/20 19:06	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 19:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.52				SU			03/10/20 15:15	1

Client Sample ID: GWC-35

Lab Sample ID: 180-103495-4

Date Collected: 03/11/20 10:35

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.32	mg/L			03/28/20 12:17	1
Sulfate	5.4		1.0	0.38	mg/L			03/28/20 12:17	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2.1		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 22:00	1
Sodium	3.5		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 22:00	1
Potassium	1.6		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 22:00	1
Magnesium	1.9		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 22:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	8.7		5.0	5.0	mg/L			03/17/20 23:34	1
Bicarbonate Alkalinity as CaCO3	8.7		5.0	5.0	mg/L			03/17/20 23:34	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 23:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.62				SU			03/11/20 10:35	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWC-34

Lab Sample ID: 180-103495-5

Date Collected: 03/11/20 11:49

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/28/20 13:04	1
Sulfate	4.9		1.0	0.38	mg/L			03/28/20 13:04	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.0		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 22:10	1
Sodium	4.8		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 22:10	1
Potassium	1.6		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 22:10	1
Magnesium	1.4		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 22:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	21		5.0	5.0	mg/L			03/17/20 23:42	1
Bicarbonate Alkalinity as CaCO3	21		5.0	5.0	mg/L			03/17/20 23:42	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 23:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.93				SU			03/11/20 11:49	1

Client Sample ID: GWA-28

Lab Sample ID: 180-103495-6

Date Collected: 03/10/20 11:30

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			03/23/20 17:48	1
Sulfate	4.2		1.0	0.38	mg/L			03/23/20 17:48	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.1		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 22:13	1
Sodium	10		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 22:13	1
Potassium	0.68		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 22:13	1
Magnesium	0.94		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 22:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	23		5.0	5.0	mg/L			03/17/20 19:13	1
Bicarbonate Alkalinity as CaCO3	23		5.0	5.0	mg/L			03/17/20 19:13	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 19:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.05				SU			03/10/20 11:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Client Sample ID: GWA-29

Lab Sample ID: 180-103495-7

Date Collected: 03/10/20 13:25

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			03/28/20 13:20	1
Sulfate	8.5		1.0	0.38	mg/L			03/28/20 13:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.3		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 22:17	1
Sodium	11		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 22:17	1
Potassium	1.0		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 22:17	1
Magnesium	1.6		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 22:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	28		5.0	5.0	mg/L			03/17/20 19:20	1
Bicarbonate Alkalinity as CaCO3	28		5.0	5.0	mg/L			03/17/20 19:20	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 19:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.75				SU			03/10/20 13:25	1

Client Sample ID: GWA-4

Lab Sample ID: 180-103495-8

Date Collected: 03/10/20 15:05

Matrix: Water

Date Received: 03/12/20 17:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			03/28/20 14:07	1
Sulfate	13		1.0	0.38	mg/L			03/28/20 14:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 22:20	1
Sodium	10		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 22:20	1
Potassium	2.8		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 22:20	1
Magnesium	5.3		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	81		5.0	5.0	mg/L			03/17/20 19:27	1
Bicarbonate Alkalinity as CaCO3	81		5.0	5.0	mg/L			03/17/20 19:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 19:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.24				SU			03/10/20 15:05	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-310811/6
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/23/20 06:45	1
Sulfate	<0.38		1.0	0.38	mg/L			03/23/20 06:45	1

Lab Sample ID: LCS 180-310811/5
Matrix: Water
Analysis Batch: 310811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.4		mg/L		95	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: 180-103495-6 MS
Matrix: Water
Analysis Batch: 310811

Client Sample ID: GWA-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.3		25.0	25.4		mg/L		97	80 - 120
Sulfate	4.2		25.0	29.5		mg/L		101	80 - 120

Lab Sample ID: 180-103495-6 MSD
Matrix: Water
Analysis Batch: 310811

Client Sample ID: GWA-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.3		25.0	26.1		mg/L		99	80 - 120	3	20
Sulfate	4.2		25.0	29.2		mg/L		100	80 - 120	1	20

Lab Sample ID: MB 180-311429/6
Matrix: Water
Analysis Batch: 311429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			03/28/20 07:33	1
Sulfate	<0.38		1.0	0.38	mg/L			03/28/20 07:33	1

Lab Sample ID: LCS 180-311429/5
Matrix: Water
Analysis Batch: 311429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.0		mg/L		102	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110

Lab Sample ID: 180-103495-4 MS
Matrix: Water
Analysis Batch: 311429

Client Sample ID: GWC-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.5		25.0	27.4		mg/L		96	80 - 120
Sulfate	5.4		25.0	28.7		mg/L		93	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 180-103495-4 MSD
Matrix: Water
Analysis Batch: 311429

Client Sample ID: GWC-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.5		25.0	28.5		mg/L		100	80 - 120	4	20
Sulfate	5.4		25.0	27.5		mg/L		88	80 - 120	4	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-310552/1-A
Matrix: Water
Analysis Batch: 311485

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 310552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		03/20/20 06:47	03/28/20 20:34	1
Sodium	<0.35		0.50	0.35	mg/L		03/20/20 06:47	03/28/20 20:34	1
Potassium	<0.16		0.50	0.16	mg/L		03/20/20 06:47	03/28/20 20:34	1
Magnesium	<0.083		0.50	0.083	mg/L		03/20/20 06:47	03/28/20 20:34	1

Lab Sample ID: LCS 180-310552/2-A
Matrix: Water
Analysis Batch: 311485

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 310552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	29.0		mg/L		116	80 - 120
Sodium	25.0	26.2		mg/L		105	80 - 120
Potassium	25.0	22.7		mg/L		91	80 - 120
Magnesium	25.0	24.7		mg/L		99	80 - 120

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-310412/65
Matrix: Water
Analysis Batch: 310412

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/20 18:38	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 18:38	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 18:38	1

Lab Sample ID: MB 180-310412/89
Matrix: Water
Analysis Batch: 310412

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/20 21:37	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 21:37	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/20 21:37	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-310412/64
Matrix: Water
Analysis Batch: 310412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	233		mg/L		93	90 - 110

Lab Sample ID: LCS 180-310412/88
Matrix: Water
Analysis Batch: 310412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	239		mg/L		95	90 - 110

Lab Sample ID: 180-103495-1 DU
Matrix: Ground Water
Analysis Batch: 310412

Client Sample ID: GWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	5.9		6.02		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	5.9		6.02		mg/L		2	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

HPLC/IC

Analysis Batch: 310811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-1	GWA-1	Total/NA	Ground Water	300.0	
180-103495-2	GWA-2	Total/NA	Water	300.0	
180-103495-3	GWA-3	Total/NA	Water	300.0	
180-103495-6	GWA-28	Total/NA	Water	300.0	
MB 180-310811/6	Method Blank	Total/NA	Water	300.0	
LCS 180-310811/5	Lab Control Sample	Total/NA	Water	300.0	
180-103495-6 MS	GWA-28	Total/NA	Water	300.0	
180-103495-6 MSD	GWA-28	Total/NA	Water	300.0	

Analysis Batch: 311429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-4	GWC-35	Total/NA	Water	300.0	
180-103495-5	GWC-34	Total/NA	Water	300.0	
180-103495-7	GWA-29	Total/NA	Water	300.0	
180-103495-8	GWA-4	Total/NA	Water	300.0	
MB 180-311429/6	Method Blank	Total/NA	Water	300.0	
LCS 180-311429/5	Lab Control Sample	Total/NA	Water	300.0	
180-103495-4 MS	GWC-35	Total/NA	Water	300.0	
180-103495-4 MSD	GWC-35	Total/NA	Water	300.0	

Metals

Prep Batch: 310552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-1	GWA-1	Total Recoverable	Ground Water	3005A	
180-103495-2	GWA-2	Total Recoverable	Water	3005A	
180-103495-3	GWA-3	Total Recoverable	Water	3005A	
180-103495-4	GWC-35	Total Recoverable	Water	3005A	
180-103495-5	GWC-34	Total Recoverable	Water	3005A	
180-103495-6	GWA-28	Total Recoverable	Water	3005A	
180-103495-7	GWA-29	Total Recoverable	Water	3005A	
180-103495-8	GWA-4	Total Recoverable	Water	3005A	
MB 180-310552/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-310552/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 311485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-1	GWA-1	Total Recoverable	Ground Water	EPA 6020B	310552
180-103495-2	GWA-2	Total Recoverable	Water	EPA 6020B	310552
180-103495-3	GWA-3	Total Recoverable	Water	EPA 6020B	310552
180-103495-4	GWC-35	Total Recoverable	Water	EPA 6020B	310552
180-103495-5	GWC-34	Total Recoverable	Water	EPA 6020B	310552
180-103495-6	GWA-28	Total Recoverable	Water	EPA 6020B	310552
180-103495-7	GWA-29	Total Recoverable	Water	EPA 6020B	310552
180-103495-8	GWA-4	Total Recoverable	Water	EPA 6020B	310552
MB 180-310552/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	310552
LCS 180-310552/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	310552

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103495-1

General Chemistry

Analysis Batch: 310412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-1	GWA-1	Total/NA	Ground Water	SM2320 B	
180-103495-2	GWA-2	Total/NA	Water	SM2320 B	
180-103495-3	GWA-3	Total/NA	Water	SM2320 B	
180-103495-4	GWC-35	Total/NA	Water	SM2320 B	
180-103495-5	GWC-34	Total/NA	Water	SM2320 B	
180-103495-6	GWA-28	Total/NA	Water	SM2320 B	
180-103495-7	GWA-29	Total/NA	Water	SM2320 B	
180-103495-8	GWA-4	Total/NA	Water	SM2320 B	
MB 180-310412/65	Method Blank	Total/NA	Water	SM2320 B	
MB 180-310412/89	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-310412/64	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-310412/88	Lab Control Sample	Total/NA	Water	SM2320 B	
180-103495-1 DU	GWA-1	Total/NA	Ground Water	SM2320 B	

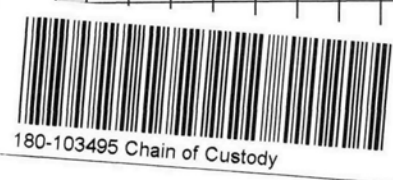
Field Service / Mobile Lab

Analysis Batch: 310221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103495-1	GWA-1	Total/NA	Ground Water	Field Sampling	
180-103495-2	GWA-2	Total/NA	Water	Field Sampling	
180-103495-3	GWA-3	Total/NA	Water	Field Sampling	
180-103495-4	GWC-35	Total/NA	Water	Field Sampling	
180-103495-5	GWC-34	Total/NA	Water	Field Sampling	
180-103495-6	GWA-28	Total/NA	Water	Field Sampling	
180-103495-7	GWA-29	Total/NA	Water	Field Sampling	
180-103495-8	GWA-4	Total/NA	Water	Field Sampling	

Chain of Custody Record

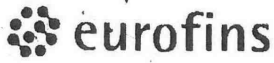
Client Information		Lab PM: Bortol, Veronica		Carrier Tracking No(s):		COC No:	
Client Contact: JoJu Abraham		Phone: (770) 594-5998		E-Mail: veronica.bortol@testamericainc.com		Page:	
Company: Southern Company		Address: 241 Ralph McGill Blvd SE B10185		City: Atlanta		Job #:	
State, Zip: GA, 30308		PO #: SCS10347656		Project #: 18019922		Preservation Codes:	
Email: JAbraham@southerco.com		WO #:		Site: Wansley Landfill		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Due Date Requested:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Total Number of containers	
Sample Identification		Matrix (W=water, S=solid, O=wastoid, BT=tissue, A=Air)		Preservation Code:		Special Instructions/Note:	
GWA-1	3-10-20	1155	Water	6	D	N	Z
GWA-2	3-10-20	1335	Water	6	N	N	Z
GWA-3	3-10-20	1515	Water	6	N	N	Z
GWC-35	3-11-20	1035	Water	6	N	N	Z
GWC-34	3-11-20	1149	Water	6	N	N	Z
			Water				
			Water				
			Water				
			Water				
			Water				
			Water				
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 3-11-20 / 1640		Company: ACC		Received by: [Signature]	
Relinquished by: [Signature]		Date/Time: 3-11-20 / 1641		Company: Company		Received by: [Signature]	
Relinquished by: [Signature]		Date/Time:		Company: Company		Received by:	
Custody Seals Intact: △ Yes △ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley Landfill Additional Site: Wansley Landfill		Sampler: <i>JB...</i> Lab PM: Bortot, Veronica Phone: 770-591-5498 E-Mail: veronica.bortot@testamericainc.com		Carrier Tracking No(s): _____ COC No: _____ Page: _____ Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: SCS10347656 WO #: _____ Project #: 18019922 SOW#: _____		Analysis Requested			
Matrix (W=water, S=solid, O=wastewater, BT=TISSUE, A=Air) Sample Type (C=Comp, G=grab) Preservation Code: _____		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date Sample Time Sample Identification GW-28 GW-29 GW-4		Matrix Water Water Water Water Water Water Water Water Water Water		Total Number of Containers 28 28 28 pH = 6.05 pH = 5.75 pH = 6.24	
Special Instructions/Note: _____		2320 - Carbonate & Bicarbonate Alkalinity 300 - Cl, SO4 5020 - Ca, Mg, Na, K D N N		Special Instructions/Note: _____	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements: _____					
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <i>[Signature]</i> Date/Time: 3-11-20 / 1640 Relinquished by: <i>[Signature]</i> Date/Time: 3-11-20 / 1641 Relinquished by: _____ Date/Time: _____					
Custody Seals Intact: _____ Δ Yes Δ No Custody Seal No.: _____					
Cooler Temperature(s) °C and Other Remarks: _____					





Environment Testing
TestAmerica

Part # 159469-434 RIT EXP 07/1

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 11 MAR 2018
ACTWGT: 61.45 LB
CAD: 859116/CAF

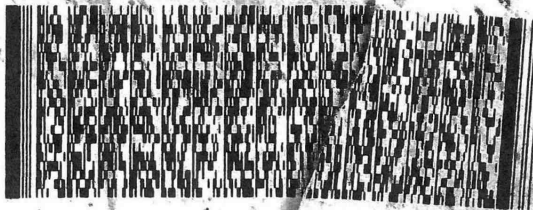
BILL RECEIPT

2

TO: ~~SAMPLE RECIEVING~~
EUROFINS TESTAMERICA PITTS
301 ALPHA DR.
RDC PARK
PITTSBURGH PA 15238

AGH

REF: ACC



FedEx
Express



TRK# 1516 9323 15

1539

THU - 12 MAR 3:00P
STANDARD OVERNIGHT

NA AGA

15238

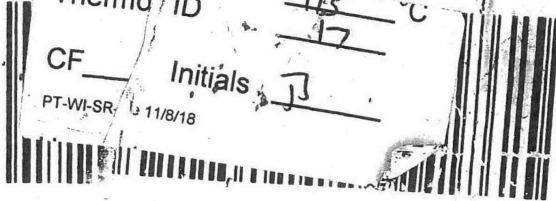
PA-US PIT

Uncorre emp
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Initials JJ

PT-WI-SR 11/8/18



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- 13

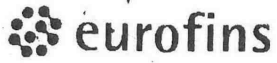
Chain of Custody Record

Client Information Client Contact: JoJu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: [Redacted] Email: JAbraham@southerco.com Project Name: CCR - Plant Wansley Landfill Additional Site: Wansley Landfill		Sampler: O. Fuquena Lab PM: Bortot, Veronica Phone: (770) 594-5998 E-Mail: veronica.bortot@testamericainc.com		Carrier Tracking No(s): COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 18019922 SOW#:		Analysis Requested			
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification GWA-1 GWA-2 GWA-3 GWC-35 GWC-34		Sample Date 3-10-20 3-10-20 3-10-20 3-11-20 3-11-20		Sample Time 1155 1335 1515 1035 1149	
Sample Type (C=Comp, G=grab)		Preservation Code:		Special Instructions/Note:	
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Water Water Water Water Water Water Water Water Water Water		pH = 5.38 pH = 5.72 pH = 5.52 pH = 5.62 pH = 5.93	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature]		Date/Time: 3-11-20 / 1640 Company: ACC			
Relinquished by: [Signature]		Date/Time: 5-11-20 / 1641 Company: [Redacted]			
Relinquished by: [Signature]		Date/Time: [Redacted] / [Redacted] Company: [Redacted]			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



Client Information		Sampler: <i>JR: 5/6/20</i>		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No:				
Client Contact: JoJu Abraham		Phone: <i>770-547-5448</i>		E-Mail: veronica.bortot@testamericainc.com				Page:				
Company: Southern Company								Job #:				
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Analysis Requested				Preservation Codes:				
City: Atlanta		TAT Requested (days):		2320 - Carbonate & Bicarbonate Alkalinity				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
State: GA, Zip: 30308		PO #: SCS10347656		6020 - Ca, Mg, Na, K				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
Phone:		WO #:		Perform MS/MSD (Yes or No)				Total Number of containers				
Email: JAbraham@southerco.com		Project #: 18019922		Field Filtered Sample (Yes or No)				Special Instructions/Note:				
Project Name: CCR - Plant Wansley Landfill Additional		SSOW#:										
Site: Wansley Landfill												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 - Ca, Mg, Na, K	300 - Cl, SO4	2320 - Carbonate & Bicarbonate Alkalinity	Analysis Requested	Carrier Tracking No(s)	COC No
GWA-28	3-10-20	1130	G	Water	N	N	✓	✓	✓			
GWA-29	3-10-20	1305	G	Water	N	N	✓	✓	✓			
GWA-4	3-10-20	1505	G	Water	N	N	✓	✓	✓			
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____												
Relinquished by: <i>[Signature]</i> Date/Time: 3-11-20 / 1640 Company: ACC												
Relinquished by: <i>[Signature]</i> Date/Time: 3-11-20 / 1640 Company: ACC												
Relinquished by: <i>[Signature]</i> Date/Time: 3-11-20 / 1640 Company: ACC												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____												





Environment Testing
TestAmerica

Part # 159469-434 RIT EXP 07/1

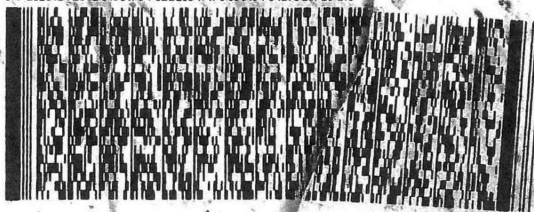
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
MORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 11 MAR 2018
ACTWGT: 61.45 LB
CAD: 859116/CAF

BILL RECEIPT

~~SAMPLE RECEIVING~~
EUROFINS TESTAMERICA PITTS
301 ALPHA DR.
RDC PARK
PITTSBURGH PA 15238

REF: ACC



FedEx
Express



TRK# 1516 9323 1539
0201

THU - 12 MAR 3:00P
STANDARD OVERNIGHT

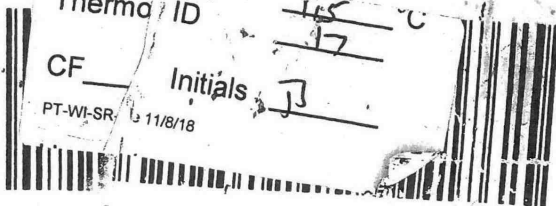
NA AGA

15238
PA--US PIT

Uncorre emp
Thermo ID

CF Initials JJ

PT-WI-SR 11/8/18



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103495-1

Login Number: 103495

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-103811-1

Client Project/Site: CCR - Plant Wansley Landfill Add't

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/15/2020 11:25:06 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Job ID: 180-103811-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-103811-1**

Comments

No additional comments.

Receipt

The samples were received on 3/20/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 1.4° C and 1.5° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20 *
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103811-1	GWC-12	Ground Water	03/18/20 10:35	03/20/20 09:00	
180-103811-2	GWC-22	Ground Water	03/18/20 11:43	03/20/20 09:00	
180-103811-3	GWC-23	Ground Water	03/18/20 13:36	03/20/20 09:00	
180-103811-4	GWC-19	Ground Water	03/18/20 12:40	03/20/20 09:00	
180-103811-5	GWC-21	Ground Water	03/18/20 14:50	03/20/20 09:00	
180-103811-6	GWC-32	Ground Water	03/18/20 11:00	03/20/20 09:00	
180-103811-7	GWC-20	Ground Water	03/18/20 14:10	03/20/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-12

Date Collected: 03/18/20 10:35

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1	1 mL	1.0 mL	312254	04/08/20 07:02	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 19:58	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 12:49	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 10:35	FDS	TAL PIT

Client Sample ID: GWC-22

Date Collected: 03/18/20 11:43

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 03:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:16	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 12:56	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 11:43	FDS	TAL PIT

Client Sample ID: GWC-23

Date Collected: 03/18/20 13:36

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/08/20 09:40	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:19	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 13:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 13:36	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-19

Date Collected: 03/18/20 12:40

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 04:11	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:40	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 13:10	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 12:40	FDS	TAL PIT

Client Sample ID: GWC-21

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 04:26	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:44	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 13:17	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:50	FDS	TAL PIT

Client Sample ID: GWC-32

Date Collected: 03/18/20 11:00

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103811-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312814	04/14/20 19:29	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:47	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 13:24	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 11:00	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-20

Lab Sample ID: 180-103811-7

Date Collected: 03/18/20 14:10

Matrix: Ground Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 04:42	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311075	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312459	04/08/20 20:51	RSK	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			311036	03/24/20 13:46	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:10	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

RSK = Robert Kurtz

SAC = Shawn Clemente

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-12

Lab Sample ID: 180-103811-1

Date Collected: 03/18/20 10:35

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		1.0	0.32	mg/L			04/08/20 07:02	1
Sulfate	25		1.0	0.38	mg/L			04/08/20 07:02	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	46		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 19:58	1
Sodium	11		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 19:58	1
Potassium	3.6		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 19:58	1
Magnesium	6.5		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	99		5.0	5.0	mg/L			03/24/20 12:49	1
Bicarbonate Alkalinity as CaCO3	99		5.0	5.0	mg/L			03/24/20 12:49	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 12:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55				SU			03/18/20 10:35	1

Client Sample ID: GWC-22

Lab Sample ID: 180-103811-2

Date Collected: 03/18/20 11:43

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.32	mg/L			04/07/20 03:55	1
Sulfate	0.60	J	1.0	0.38	mg/L			04/07/20 03:55	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:16	1
Sodium	9.2		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:16	1
Potassium	0.92		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:16	1
Magnesium	5.5		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	61		5.0	5.0	mg/L			03/24/20 12:56	1
Bicarbonate Alkalinity as CaCO3	61		5.0	5.0	mg/L			03/24/20 12:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 12:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.85				SU			03/18/20 11:43	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-23

Lab Sample ID: 180-103811-3

Date Collected: 03/18/20 13:36

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.32	mg/L			04/08/20 09:40	1
Sulfate	0.55	J	1.0	0.38	mg/L			04/08/20 09:40	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4.0		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:19	1
Sodium	4.3		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:19	1
Potassium	1.4		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:19	1
Magnesium	1.5		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	20		5.0	5.0	mg/L			03/24/20 13:03	1
Bicarbonate Alkalinity as CaCO3	20		5.0	5.0	mg/L			03/24/20 13:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 13:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			03/18/20 13:36	1

Client Sample ID: GWC-19

Lab Sample ID: 180-103811-4

Date Collected: 03/18/20 12:40

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.32	mg/L			04/07/20 04:11	1
Sulfate	0.68	J	1.0	0.38	mg/L			04/07/20 04:11	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:40	1
Sodium	4.4		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:40	1
Potassium	0.95		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:40	1
Magnesium	3.7		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	40		5.0	5.0	mg/L			03/24/20 13:10	1
Bicarbonate Alkalinity as CaCO3	40		5.0	5.0	mg/L			03/24/20 13:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 13:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.71				SU			03/18/20 12:40	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-21

Lab Sample ID: 180-103811-5

Date Collected: 03/18/20 14:50

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.32	mg/L			04/07/20 04:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 04:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7.3		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:44	1
Sodium	5.7		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:44	1
Potassium	0.64		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:44	1
Magnesium	1.9		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	30		5.0	5.0	mg/L			03/24/20 13:17	1
Bicarbonate Alkalinity as CaCO3	30		5.0	5.0	mg/L			03/24/20 13:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 13:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.45				SU			03/18/20 14:50	1

Client Sample ID: GWC-32

Lab Sample ID: 180-103811-6

Date Collected: 03/18/20 11:00

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			04/14/20 19:29	1
Sulfate	8.7		1.0	0.38	mg/L			04/14/20 19:29	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:47	1
Sodium	12		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:47	1
Potassium	1.8		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:47	1
Magnesium	4.0		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.!	54		5.0	5.0	mg/L			03/24/20 13:24	1
Bicarbonate Alkalinity as CaCO3	54		5.0	5.0	mg/L			03/24/20 13:24	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 13:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.13				SU			03/18/20 11:00	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Client Sample ID: GWC-20

Lab Sample ID: 180-103811-7

Date Collected: 03/18/20 14:10

Matrix: Ground Water

Date Received: 03/20/20 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.32	mg/L			04/07/20 04:42	1
Sulfate	8.9		1.0	0.38	mg/L			04/07/20 04:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8.9		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 20:51	1
Sodium	9.2		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 20:51	1
Potassium	1.2		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 20:51	1
Magnesium	4.0		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	53		5.0	5.0	mg/L			03/24/20 13:46	1
Bicarbonate Alkalinity as CaCO3	53		5.0	5.0	mg/L			03/24/20 13:46	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 13:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.16				SU			03/18/20 14:10	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-312143/6
Matrix: Water
Analysis Batch: 312143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 15:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 15:26	1

Lab Sample ID: LCS 180-312143/5
Matrix: Water
Analysis Batch: 312143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: MB 180-312254/43
Matrix: Water
Analysis Batch: 312254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/08/20 06:46	1
Sulfate	<0.38		1.0	0.38	mg/L			04/08/20 06:46	1

Lab Sample ID: MB 180-312254/6
Matrix: Water
Analysis Batch: 312254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/07/20 17:25	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 17:25	1

Lab Sample ID: LCS 180-312254/42
Matrix: Water
Analysis Batch: 312254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.4		mg/L		97	90 - 110
Sulfate	50.0	47.9		mg/L		96	90 - 110

Lab Sample ID: 180-103811-1 MS
Matrix: Ground Water
Analysis Batch: 312254

Client Sample ID: GWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22		25.0	46.0		mg/L		94	80 - 120
Sulfate	25		25.0	47.9		mg/L		92	80 - 120

Lab Sample ID: 180-103811-1 MSD
Matrix: Ground Water
Analysis Batch: 312254

Client Sample ID: GWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22		25.0	45.7		mg/L		93	80 - 120	1	20
Sulfate	25		25.0	47.5		mg/L		90	80 - 120	1	20

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-312814/6
Matrix: Water
Analysis Batch: 312814

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/14/20 15:46	1
Sulfate	<0.38		1.0	0.38	mg/L			04/14/20 15:46	1

Lab Sample ID: LCS 180-312814/5
Matrix: Water
Analysis Batch: 312814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-311075/1-A
Matrix: Water
Analysis Batch: 312459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/08/20 19:41	1
Sodium	<0.35		0.50	0.35	mg/L		03/25/20 11:00	04/08/20 19:41	1
Potassium	<0.16		0.50	0.16	mg/L		03/25/20 11:00	04/08/20 19:41	1
Magnesium	<0.083		0.50	0.083	mg/L		03/25/20 11:00	04/08/20 19:41	1

Lab Sample ID: LCS 180-311075/2-A
Matrix: Water
Analysis Batch: 312459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	28.1		mg/L		112	80 - 120
Sodium	25.0	26.1		mg/L		105	80 - 120
Potassium	25.0	24.2		mg/L		97	80 - 120
Magnesium	25.0	25.2		mg/L		101	80 - 120

Lab Sample ID: 180-103811-1 MS
Matrix: Ground Water
Analysis Batch: 312459

Client Sample ID: GWC-12
Prep Type: Total Recoverable
Prep Batch: 311075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	46		25.0	73.4		mg/L		110	75 - 125
Sodium	11		25.0	37.3		mg/L		106	75 - 125
Potassium	3.6		25.0	27.5		mg/L		96	75 - 125
Magnesium	6.5		25.0	31.6		mg/L		100	75 - 125

Lab Sample ID: 180-103811-1 MSD
Matrix: Ground Water
Analysis Batch: 312459

Client Sample ID: GWC-12
Prep Type: Total Recoverable
Prep Batch: 311075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	46		25.0	72.9		mg/L		107	75 - 125	1	20
Sodium	11		25.0	37.0		mg/L		105	75 - 125	1	20

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-103811-1 MSD
 Matrix: Ground Water
 Analysis Batch: 312459

Client Sample ID: GWC-12
 Prep Type: Total Recoverable
 Prep Batch: 311075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	3.6		25.0	27.4		mg/L		95	75 - 125	0	20
Magnesium	6.5		25.0	31.5		mg/L		100	75 - 125	0	20

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-311036/5
 Matrix: Water
 Analysis Batch: 311036

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/24/20 12:25	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 12:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/24/20 12:25	1

Lab Sample ID: LCS 180-311036/4
 Matrix: Water
 Analysis Batch: 311036

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	231		mg/L		92	90 - 110

Lab Sample ID: 180-103811-7 DU
 Matrix: Ground Water
 Analysis Batch: 311036

Client Sample ID: GWC-20
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	53		52.3		mg/L		0.6	20
Bicarbonate Alkalinity as CaCO3	53		52.3		mg/L		0.6	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

HPLC/IC

Analysis Batch: 312143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-2	GWC-22	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103811-4	GWC-19	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103811-5	GWC-21	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103811-7	GWC-20	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-312143/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312143/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 312254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103811-3	GWC-23	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-312254/43	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312254/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312254/42	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103811-1 MS	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	
180-103811-1 MSD	GWC-12	Total/NA	Ground Water	EPA 300.0 R2.1	

Analysis Batch: 312814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-6	GWC-32	Total/NA	Ground Water	EPA 300.0 R2.1	
MB 180-312814/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312814/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 311075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1	GWC-12	Total Recoverable	Ground Water	3005A	
180-103811-2	GWC-22	Total Recoverable	Ground Water	3005A	
180-103811-3	GWC-23	Total Recoverable	Ground Water	3005A	
180-103811-4	GWC-19	Total Recoverable	Ground Water	3005A	
180-103811-5	GWC-21	Total Recoverable	Ground Water	3005A	
180-103811-6	GWC-32	Total Recoverable	Ground Water	3005A	
180-103811-7	GWC-20	Total Recoverable	Ground Water	3005A	
MB 180-311075/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311075/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103811-1 MS	GWC-12	Total Recoverable	Ground Water	3005A	
180-103811-1 MSD	GWC-12	Total Recoverable	Ground Water	3005A	

Analysis Batch: 312459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-2	GWC-22	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-3	GWC-23	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-4	GWC-19	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-5	GWC-21	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-6	GWC-32	Total Recoverable	Ground Water	EPA 6020B	311075
180-103811-7	GWC-20	Total Recoverable	Ground Water	EPA 6020B	311075
MB 180-311075/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311075
LCS 180-311075/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311075
180-103811-1 MS	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311075

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Landfill Add't

Job ID: 180-103811-1

Metals (Continued)

Analysis Batch: 312459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1 MSD	GWC-12	Total Recoverable	Ground Water	EPA 6020B	311075

General Chemistry

Analysis Batch: 311036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1	GWC-12	Total/NA	Ground Water	SM2320 B	
180-103811-2	GWC-22	Total/NA	Ground Water	SM2320 B	
180-103811-3	GWC-23	Total/NA	Ground Water	SM2320 B	
180-103811-4	GWC-19	Total/NA	Ground Water	SM2320 B	
180-103811-5	GWC-21	Total/NA	Ground Water	SM2320 B	
180-103811-6	GWC-32	Total/NA	Ground Water	SM2320 B	
180-103811-7	GWC-20	Total/NA	Ground Water	SM2320 B	
MB 180-311036/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-311036/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-103811-7 DU	GWC-20	Total/NA	Ground Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103811-1	GWC-12	Total/NA	Ground Water	Field Sampling	
180-103811-2	GWC-22	Total/NA	Ground Water	Field Sampling	
180-103811-3	GWC-23	Total/NA	Ground Water	Field Sampling	
180-103811-4	GWC-19	Total/NA	Ground Water	Field Sampling	
180-103811-5	GWC-21	Total/NA	Ground Water	Field Sampling	
180-103811-6	GWC-32	Total/NA	Ground Water	Field Sampling	
180-103811-7	GWC-20	Total/NA	Ground Water	Field Sampling	

Client Information		Sampler: <u>O. Figueira</u>		Lab PM: Bortot, Veronica	
Client Contact: JoJu Abraham		Phone: (770) 594-5498		E-Mail: veronica.bortot@testamericainc.com	
Company: Southern Company		Address: 241 Ralph McGill Blvd SE B10185		City: Atlanta	
State, Zip: GA, 30308		PO #: SCS10347656		WO #: [Blank]	
Email: JAbraham@southerco.com		Project #: 18019922		SSOW#: [Blank]	
Site: Wansley Landfill		Due Date Requested: [Blank]		TAT Requested (days): [Blank]	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (w=water, s=solid, o=wastobill, BT=Tissue, A=Air)
GWC-12	3-18-20	1135	G	Water	
GWC-22	3-18-20	1143	G	Water	
GWC-23	3-18-20	1336	G	Water	
FB-4-3-18-20	3-18-20	1330	G	Water	
FB-4-3-18-20	3-18-20	1335	G	Water	
GWC-19	3-18-20	1240	G	Water	
GWC-21	3-18-20	1450	G	Water	
GWC-32	3-18-20	1100	G	Water	
GWC-20	3-18-20	1410	G	Water	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: Taylor Gold		Date: 3/19/20	
Relinquished by: Taylor Gold		Date: 3/19/20/1610		Company: ACC	
Relinquished by: [Signature]		Date: 3/19/20		Company: KTA	
Relinquished by: [Signature]		Date: 16:20		Company: KTA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: [Blank]		Cooler Temperature(s) °C and Other Remarks: [Blank]	



Date/Time: 3/19/20	Company: ACC
Date/Time: 3/20/20	Company: KTA
Date/Time: 16:20	Company: KTA



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103811-1

Login Number: 103811

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

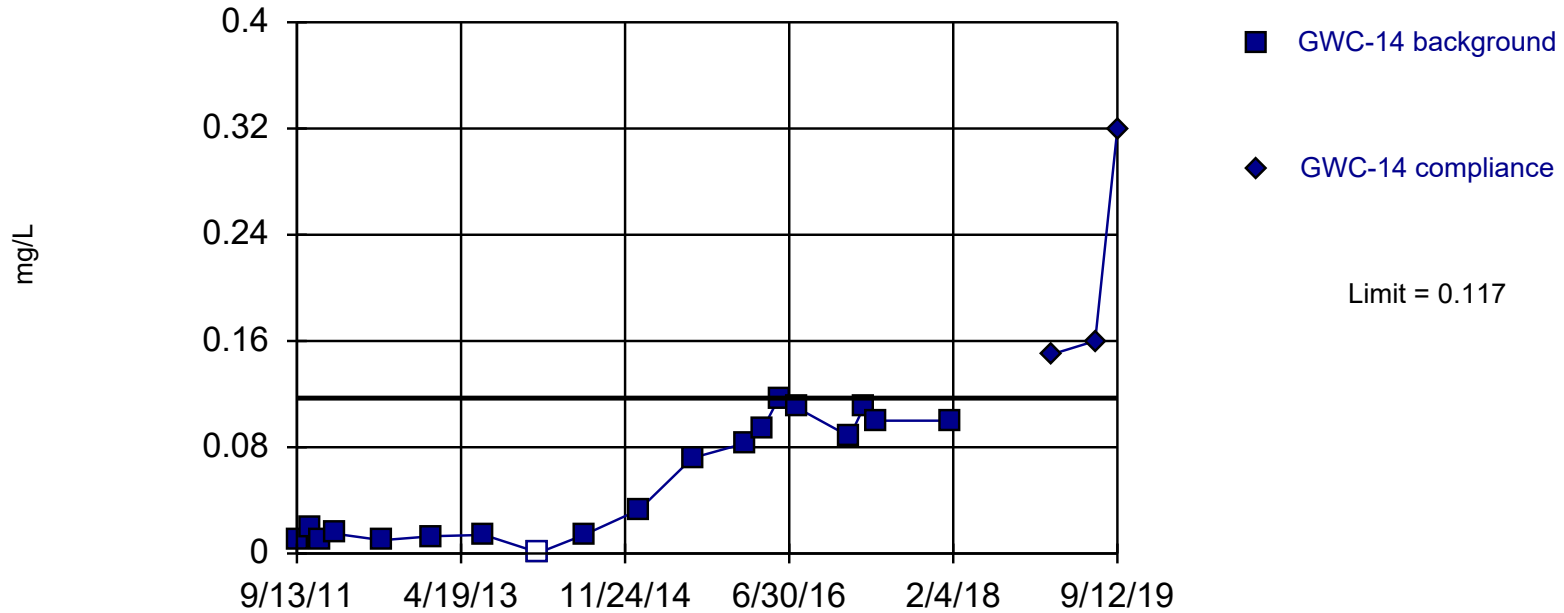
Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D – Intra-Well Predication Limits

Exceeds Limit

Prediction Limit Intrawell Non-parametric

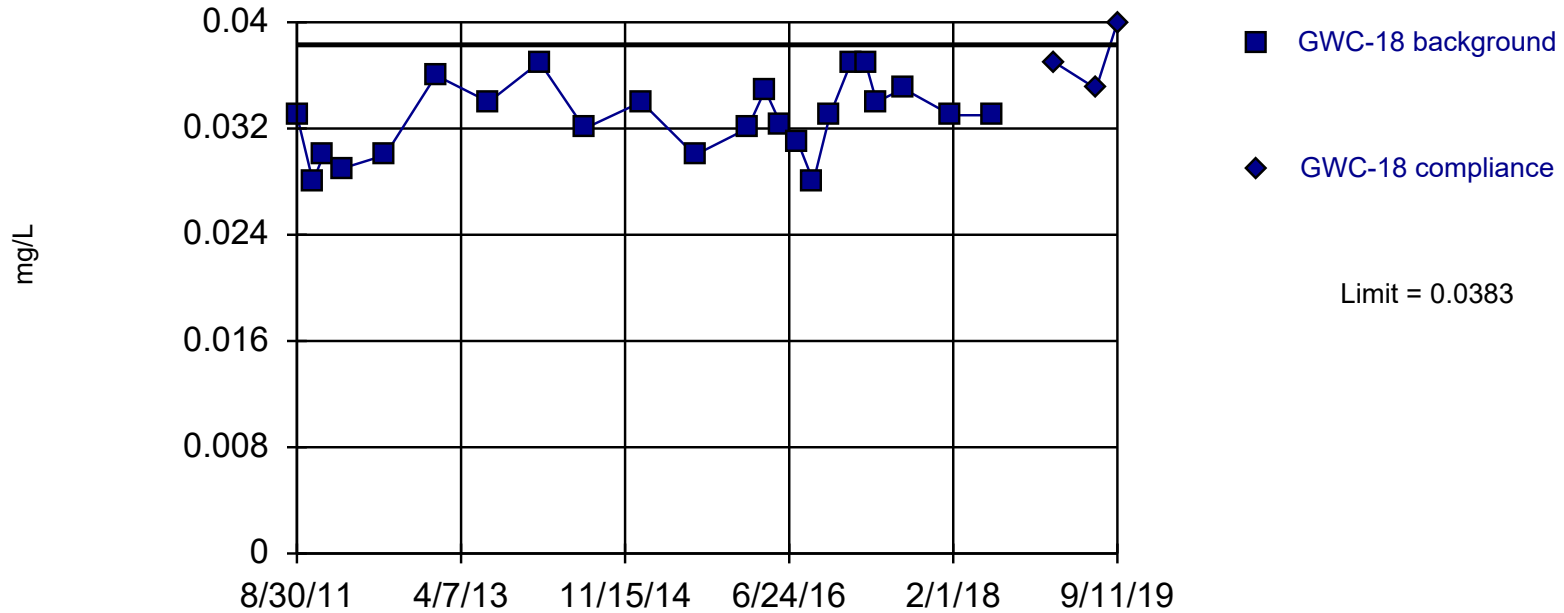


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 19 background values. 5.263% NDs. Well-constituent pair annual alpha = 0.001357. Individual comparison alpha = 0.0006785 (1 of 3).

Constituent: Barium Analysis Run 4/13/2020 12:55 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

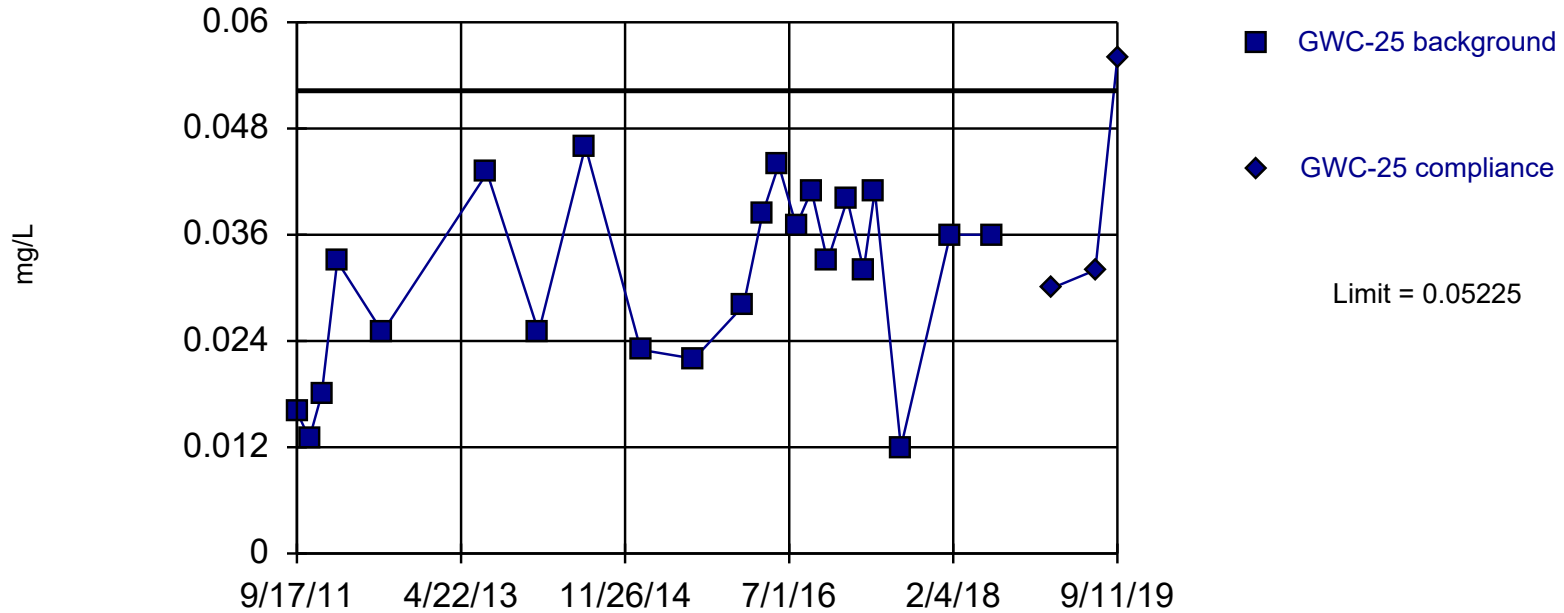


Background Data Summary: Mean=0.03275, Std. Dev.=0.002744, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 4/13/2020 12:55 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

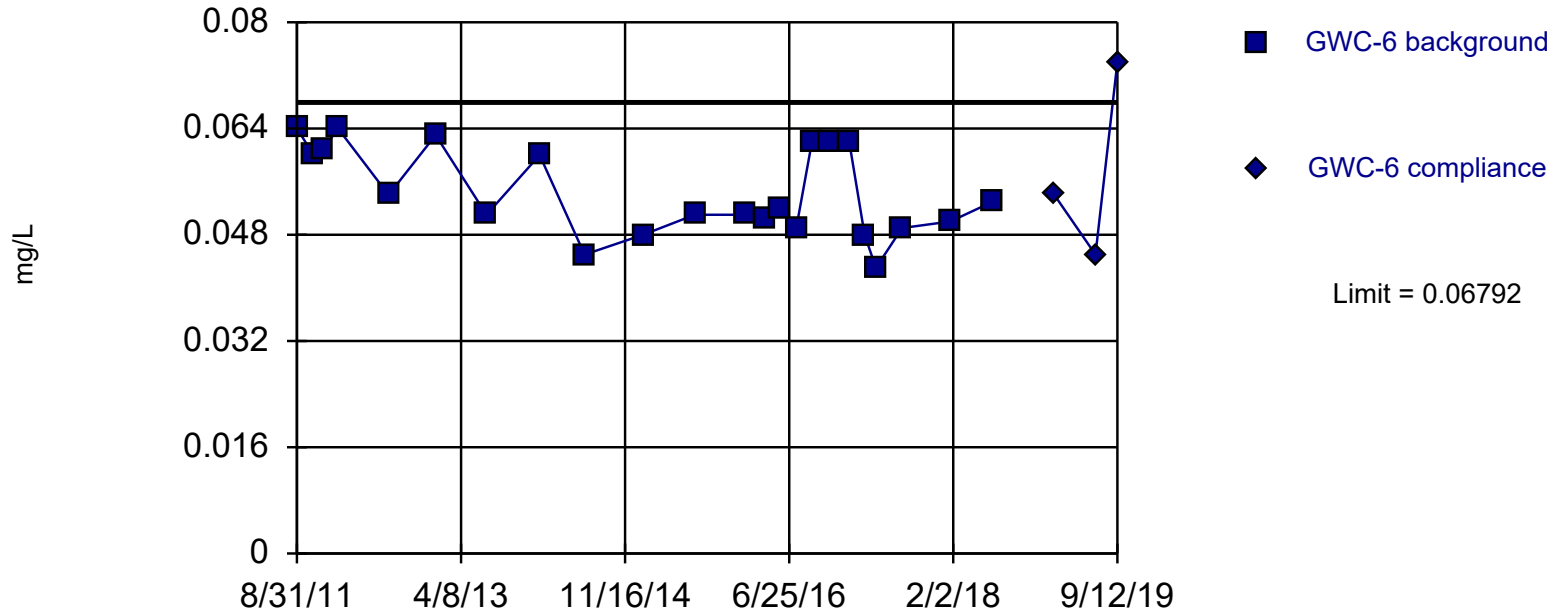


Background Data Summary: Mean=0.03101, Std. Dev.=0.0104, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 4/13/2020 12:55 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

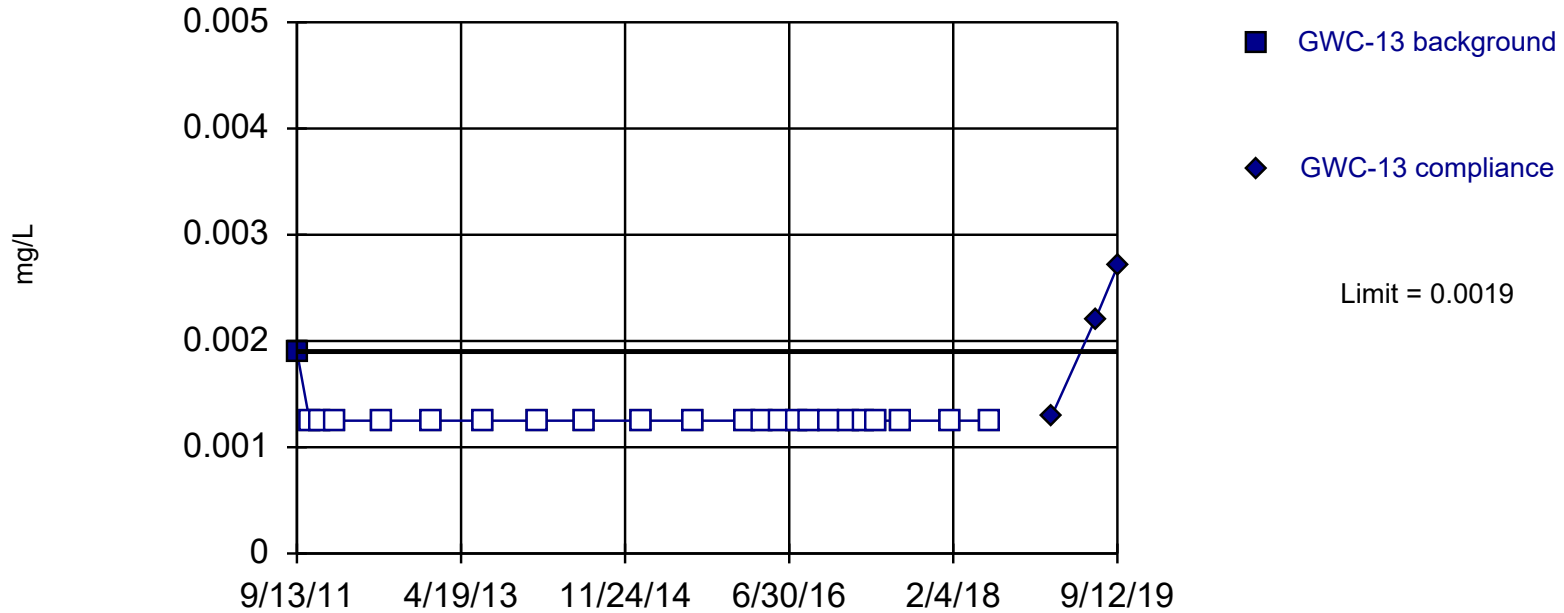


Background Data Summary: Mean=0.05446, Std. Dev.=0.006649, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8995, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 4/13/2020 12:55 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

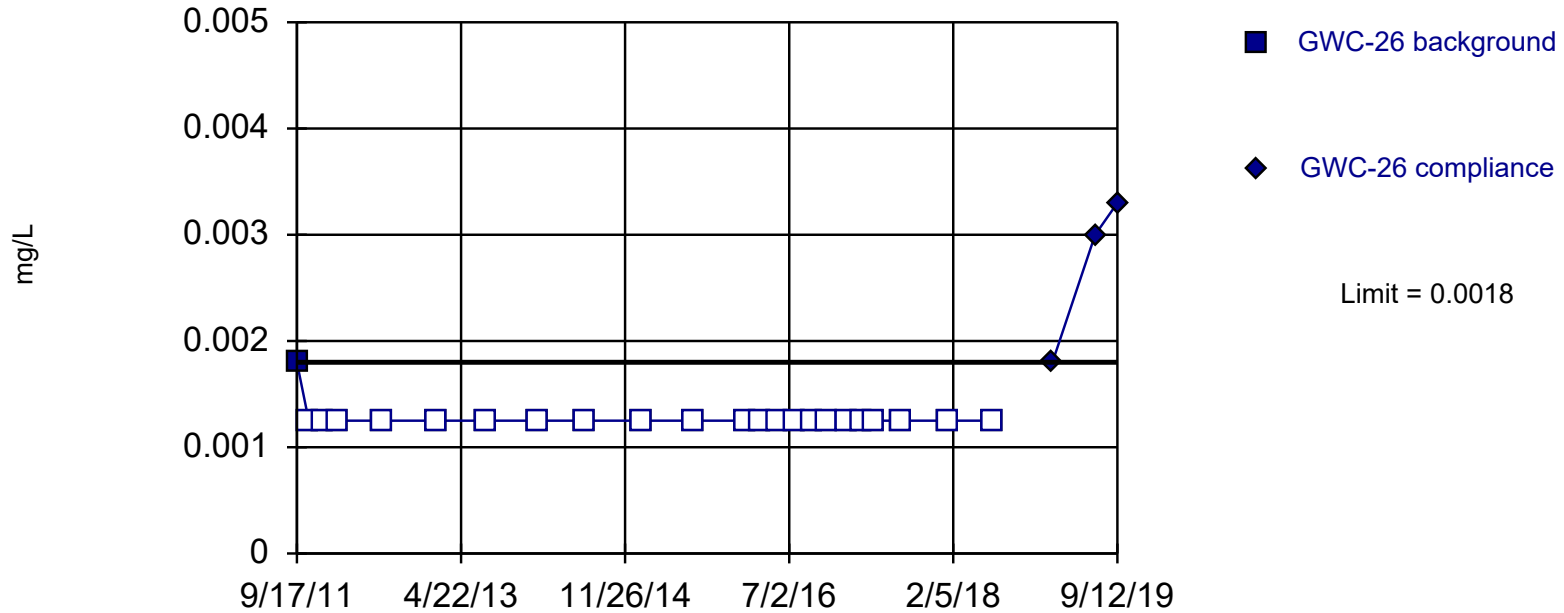
Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Exceeds Limit

Prediction Limit Intrawell Non-parametric

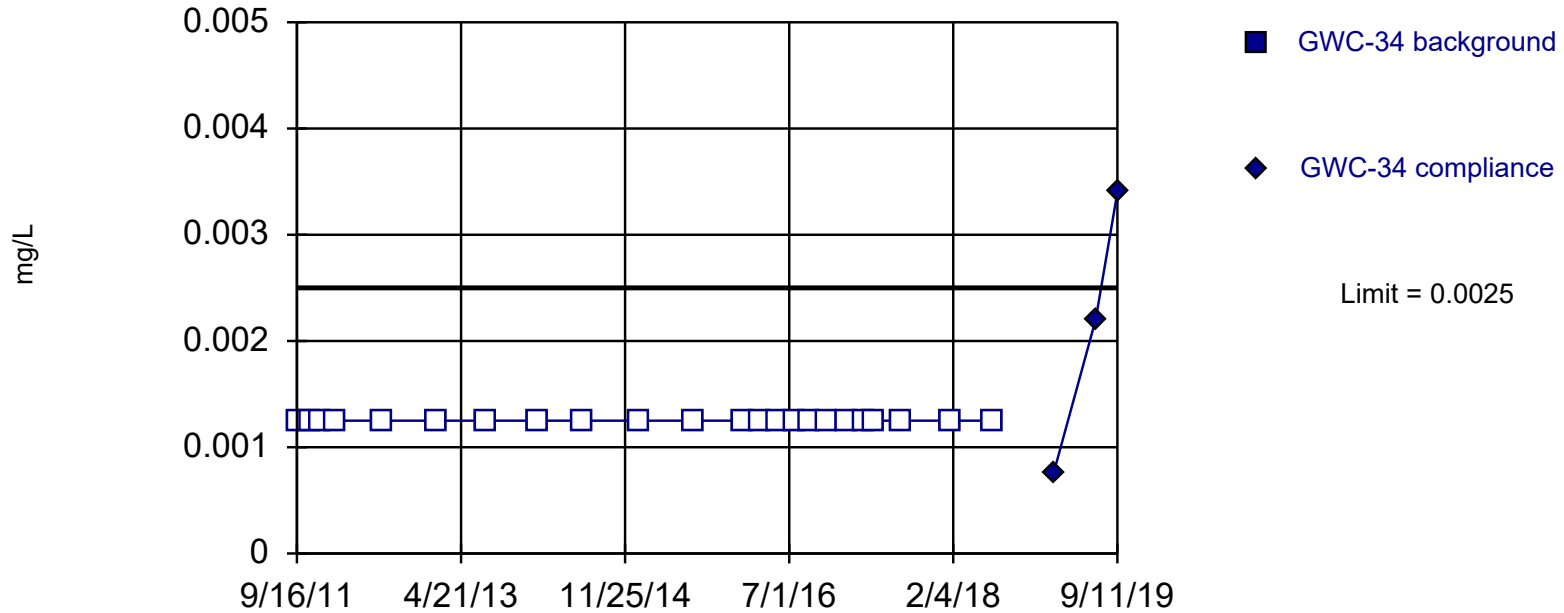


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 4/13/2020 12:51 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

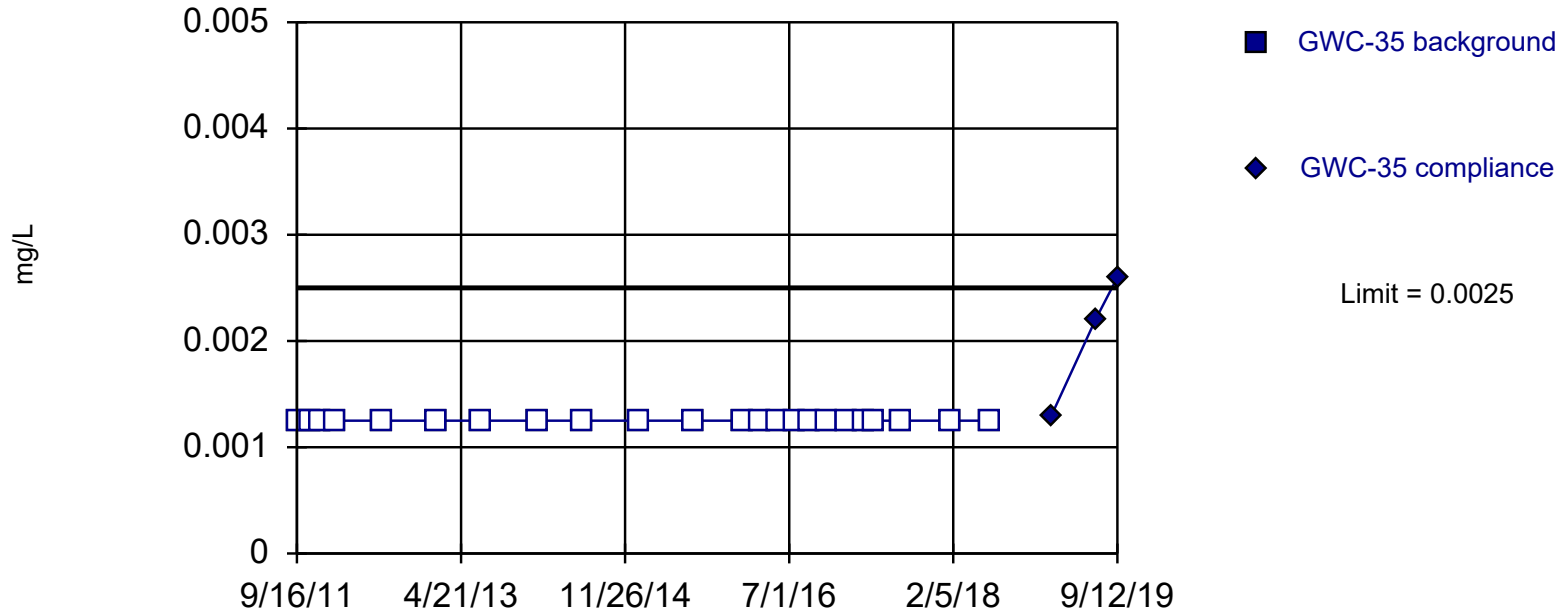
Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 23$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Exceeds Limit

Prediction Limit Intrawell Non-parametric

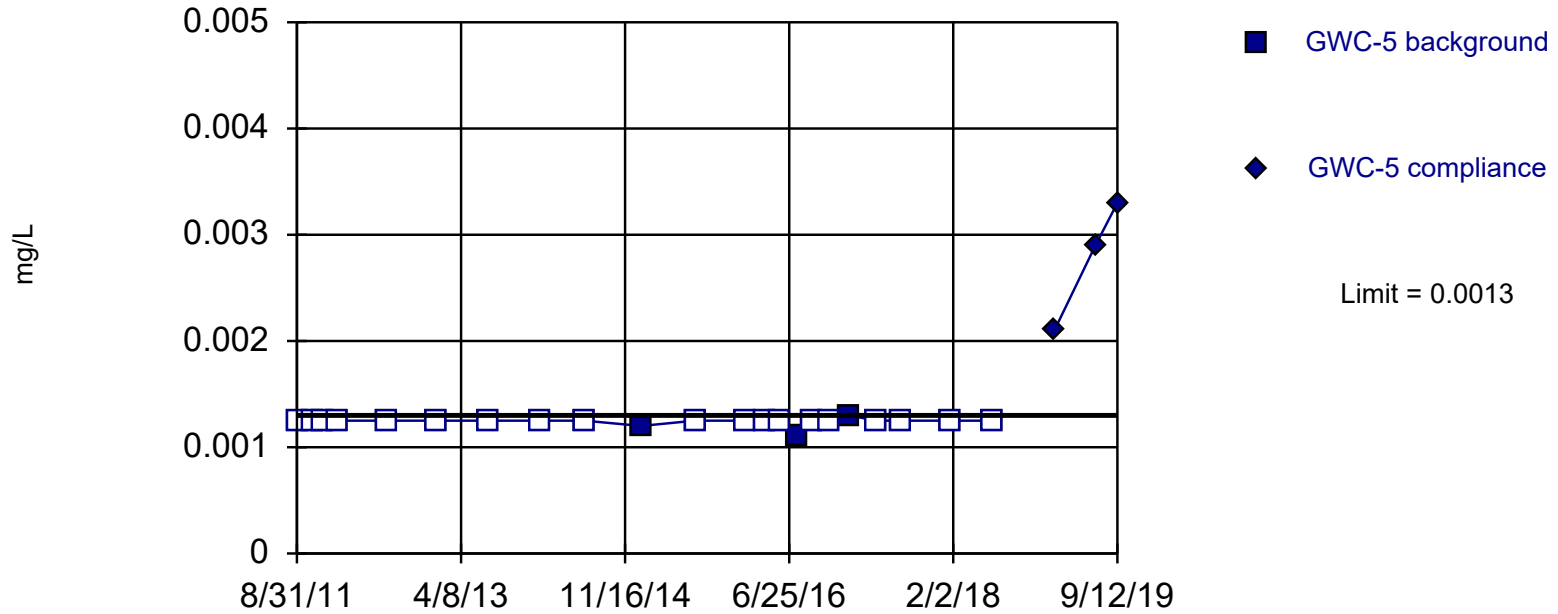


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 4/13/2020 12:51 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

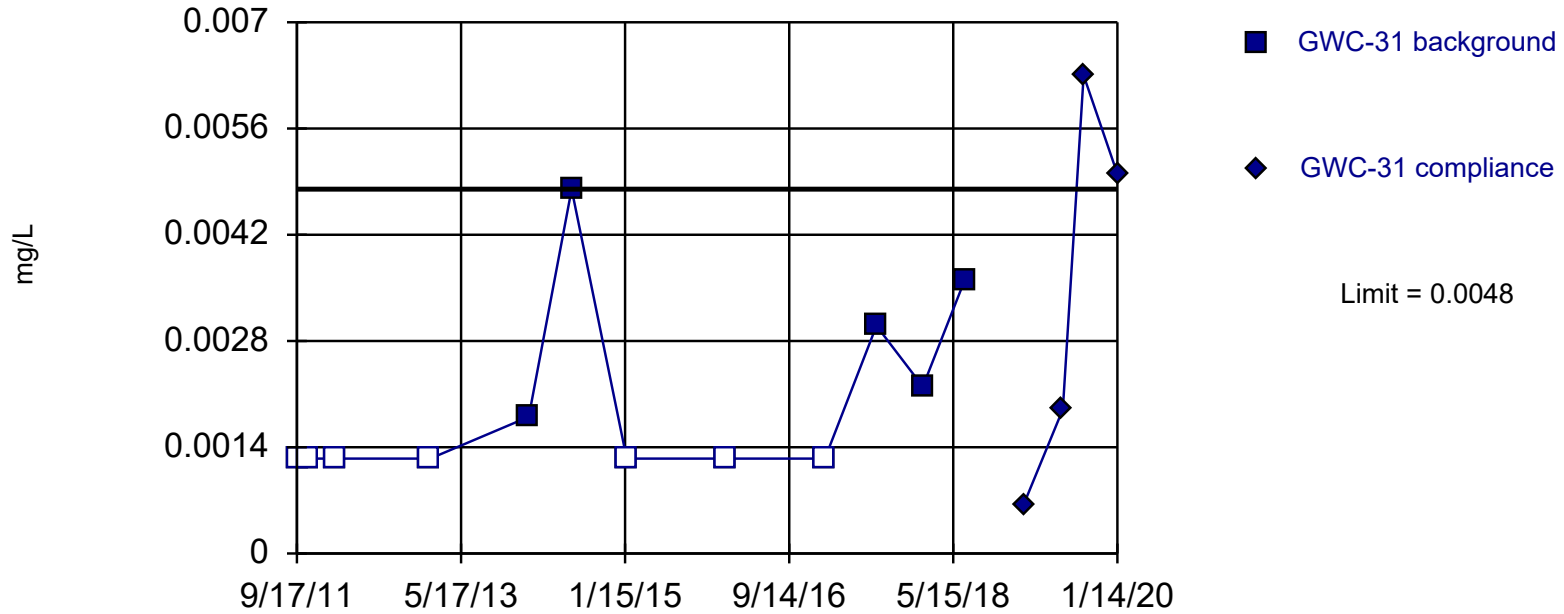
Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Exceeds Limit

Prediction Limit Intrawell Non-parametric

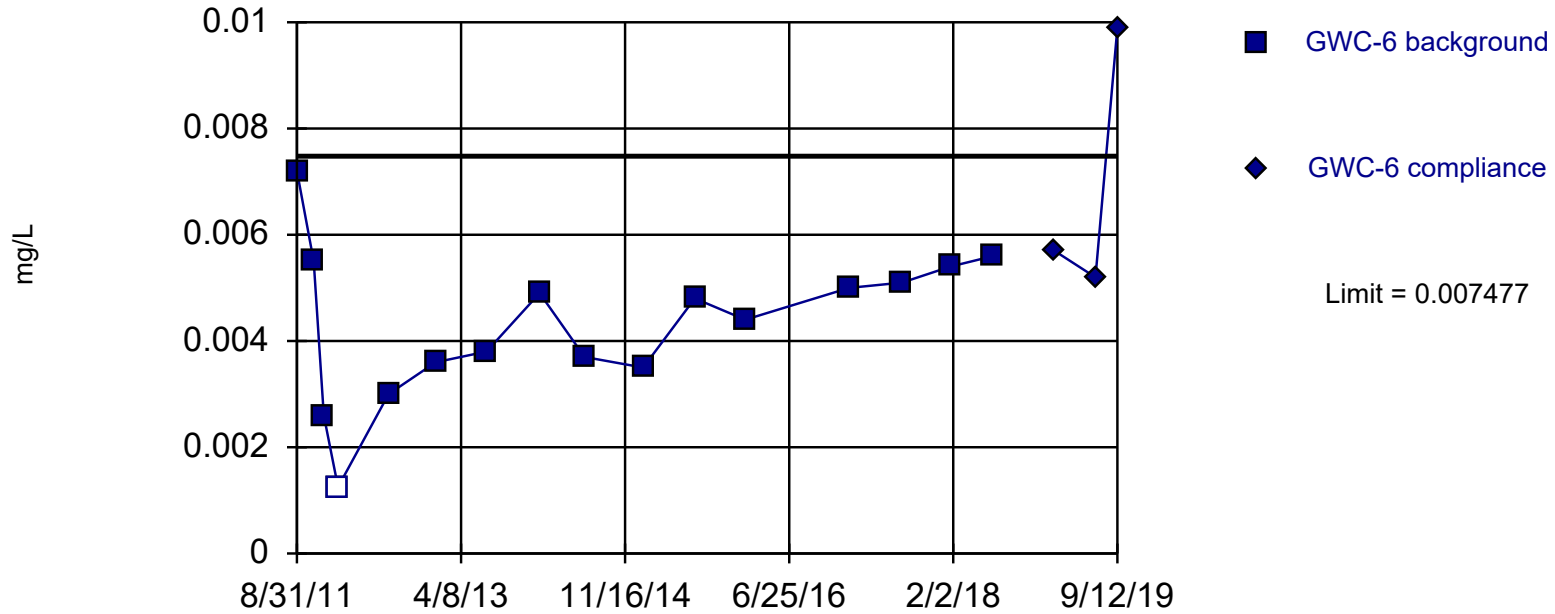


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Copper Analysis Run 4/13/2020 12:59 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

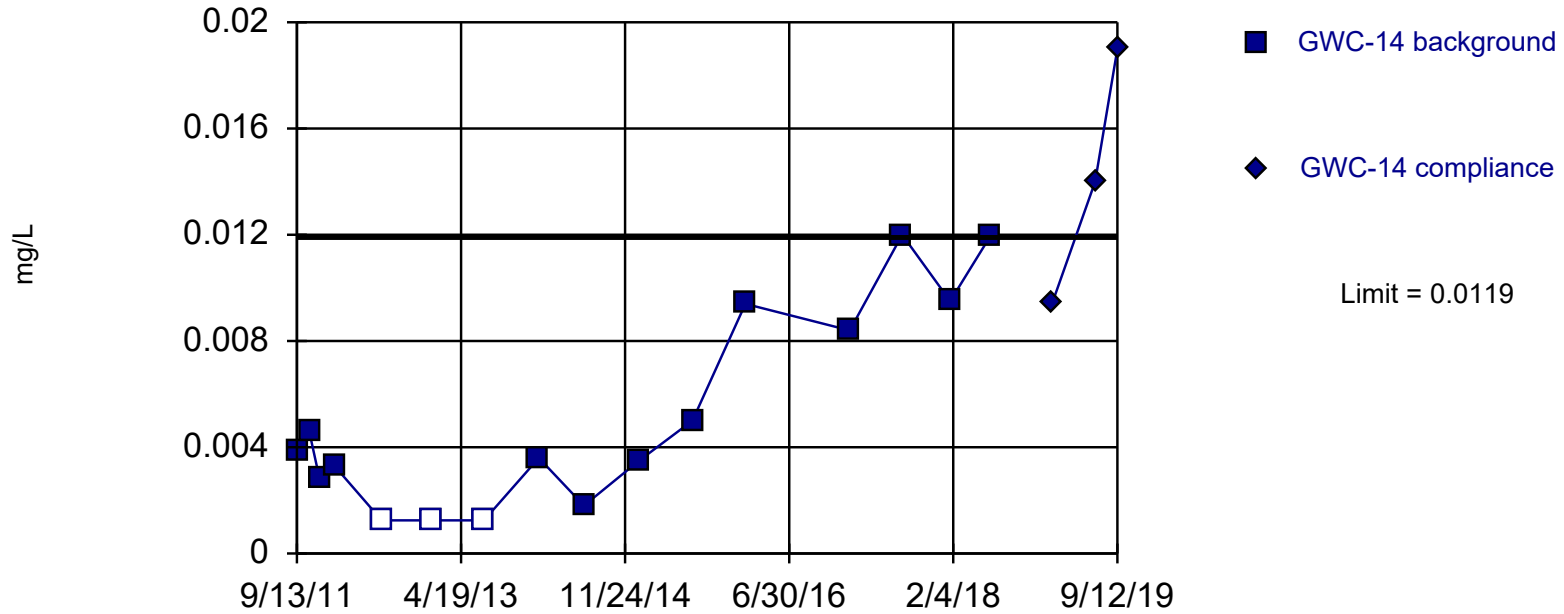


Background Data Summary: Mean=0.004334, Std. Dev.=0.001417, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 4/13/2020 12:57 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

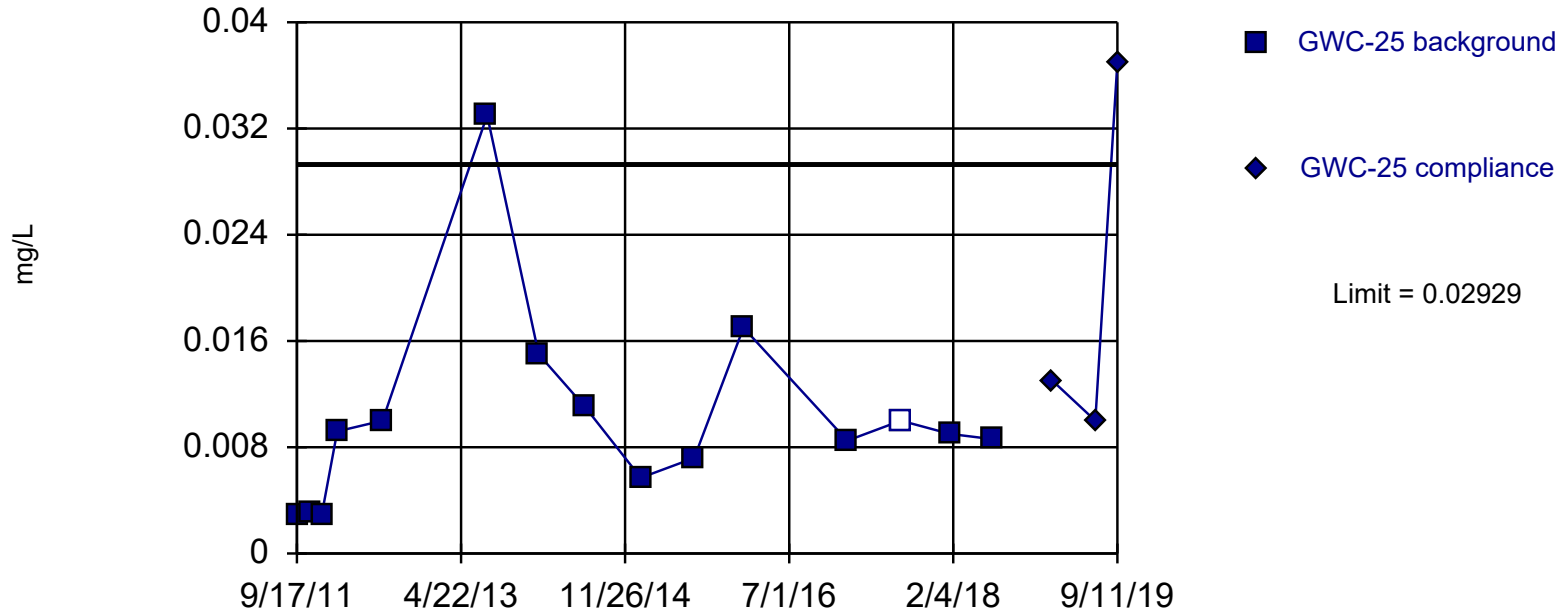


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004848, Std. Dev.=0.003178, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.861, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 4/13/2020 12:58 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

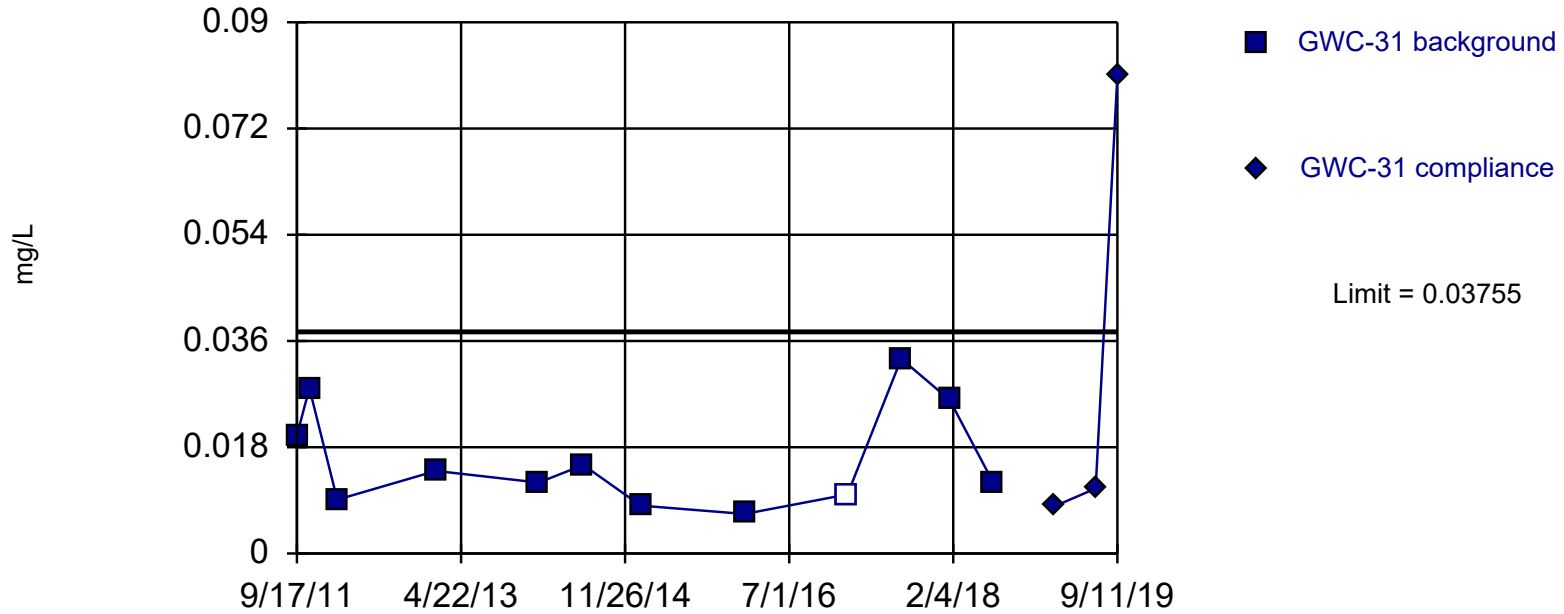


Background Data Summary (based on square root transformation): Mean=0.0958, Std. Dev.=0.03299, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8968, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 4/13/2020 12:58 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric

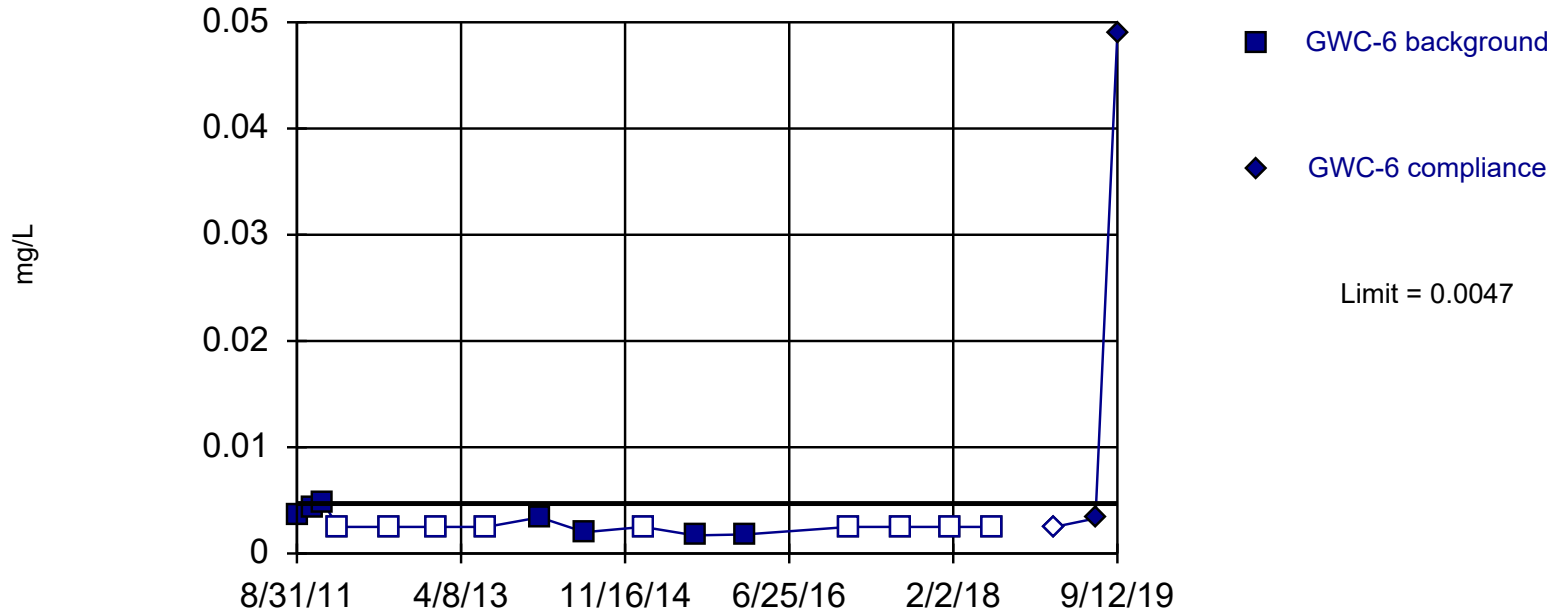


Background Data Summary: Mean=0.01616, Std. Dev.=0.008625, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8848, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 4/13/2020 12:58 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 4/13/2020 12:58 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Landfill

APPENDIX E – Background Groundwater Data Summaries

Summary Report

Constituent: Barium Analysis Run 3/18/2020 2:32 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/31/2011 and 9/11/2019, a summary of the selected data set:

Observations = 140
 ND/Trace = 39
 Wells = 6
 Minimum Value = 0.00037
 Maximum Value = 0.18
 Mean Value = 0.03155
 Median Value = 0.01
 Standard Deviation = 0.0468
 Coefficient of Variation = 1.483
 Skewness = 1.648

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWA-1 (bg)	26	0	0.0086	0.013	0.01028	0.0098	0.001293	0.1258	0.5822
GWA-2 (bg)	26	0	0.00761	0.02	0.01408	0.0145	0.003507	0.249	-0.3317
GWA-28 (bg)	26	10	0.00037	0.005	0.001547	0.001225	0.001364	0.8818	1.847
GWA-29 (bg)	24	3	0.00065	0.005	0.001801	0.00135	0.001256	0.6973	1.564
GWA-3 (bg)	12	0	0.027	0.1	0.04775	0.0345	0.02759	0.5778	1.082
GWA-4 (bg)	26	0	0.061	0.18	0.1203	0.12	0.03066	0.2549	0.05287

Summary Report

Constituent: Chromium Analysis Run 3/18/2020 2:32 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/31/2011 and 9/11/2019, a summary of the selected data set:

Observations = 138
 ND/Trace = 126
 Wells = 6
 Minimum Value = 0.00065
 Maximum Value = 0.005
 Mean Value = 0.001521
 Median Value = 0.00125
 Standard Deviation = 0.001221
 Coefficient of Variation = 0.8029
 Skewness = 1.948

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWA-1 (bg)	26	22	0.00065	0.005	0.001494	0.00125	0.001276	0.854	1.98
GWA-2 (bg)	26	21	0.00065	0.005	0.001427	0.00125	0.001179	0.826	2.191
GWA-28 (bg)	25	20	0.00065	0.005	0.001664	0.00125	0.001328	0.7982	1.569
GWA-29 (bg)	23	18	0.00065	0.005	0.001437	0.00125	0.001039	0.7229	1.962
GWA-3 (bg)	12	9	0.00065	0.005	0.001867	0.00125	0.001567	0.8395	1.361
GWA-4 (bg)	26	22	0.00065	0.005	0.001419	0.00125	0.001152	0.8119	2.382

Summary Report

Constituent: Copper Analysis Run 3/18/2020 2:32 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/31/2011 and 9/11/2019, a summary of the selected data set:

Observations = 103
 ND/Trace = 86
 Wells = 6
 Minimum Value = 0.001
 Maximum Value = 0.018
 Mean Value = 0.003859
 Median Value = 0.0025
 Standard Deviation = 0.003368
 Coefficient of Variation = 0.8729
 Skewness = 1.833

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWA-1 (bg)	19	19	0.001	0.0065	0.002842	0.0025	0.002038	0.7171	1.082
GWA-2 (bg)	19	15	0.001	0.0065	0.002726	0.0025	0.002086	0.7652	1.146
GWA-28 (bg)	19	18	0.001	0.0065	0.002787	0.0025	0.002061	0.7395	1.116
GWA-29 (bg)	19	3	0.0044	0.018	0.008689	0.0072	0.003963	0.4561	1.212
GWA-3 (bg)	8	5	0.001	0.0065	0.00245	0.00155	0.001905	0.7777	1.373
GWA-4 (bg)	19	19	0.001	0.0065	0.002842	0.0025	0.002038	0.7171	1.082

Summary Report

Constituent: Nickel Analysis Run 3/18/2020 2:32 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/31/2011 and 9/11/2019, a summary of the selected data set:

Observations = 102
 ND/Trace = 78
 Wells = 6
 Minimum Value = 0.0004
 Maximum Value = 0.007
 Mean Value = 0.001735
 Median Value = 0.00125
 Standard Deviation = 0.00115
 Coefficient of Variation = 0.6627
 Skewness = 2.501

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWA-1 (bg)	19	16	0.00094	0.00125	0.001204	0.00125	0.000109	0.09052	-1.902
GWA-2 (bg)	19	11	0.0011	0.0028	0.001371	0.00125	0.0003653	0.2664	3.412
GWA-28 (bg)	19	15	0.0004	0.00125	0.001127	0.00125	0.0002678	0.2376	-1.977
GWA-29 (bg)	19	3	0.00125	0.0053	0.002945	0.0026	0.001335	0.4534	0.5481
GWA-3 (bg)	8	3	0.00087	0.0056	0.002365	0.001675	0.001718	0.7266	1.046
GWA-4 (bg)	18	12	0.00125	0.007	0.001767	0.00125	0.001351	0.7647	3.482

Summary Report

Constituent: Zinc Analysis Run 3/18/2020 2:32 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/31/2011 and 9/11/2019, a summary of the selected data set:

Observations = 103
 ND/Trace = 33
 Wells = 6
 Minimum Value = 0.00085
 Maximum Value = 0.048
 Mean Value = 0.01113
 Median Value = 0.0064
 Standard Deviation = 0.01159
 Coefficient of Variation = 1.042
 Skewness = 1.735

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWA-1 (bg)	19	2	0.0026	0.01	0.005463	0.0048	0.002224	0.407	0.65
GWA-2 (bg)	19	4	0.0024	0.01	0.005947	0.0054	0.002489	0.4186	0.5826
GWA-28 (bg)	19	4	0.0026	0.011	0.006321	0.0052	0.002901	0.459	0.4271
GWA-29 (bg)	19	0	0.015	0.048	0.03142	0.031	0.009845	0.3133	0.1916
GWA-3 (bg)	8	2	0.0037	0.042	0.01544	0.012	0.01177	0.7624	1.555
GWA-4 (bg)	19	10	0.00085	0.014	0.004661	0.0025	0.004218	0.905	0.7957

Summary Report

Constituent: Barium Analysis Run 3/18/2020 3:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 7/16/2012 and 6/27/2018, a summary of the selected data set:

Observations = 178
 ND/Trace = 24
 Wells = 10
 Minimum Value = 0.001
 Maximum Value = 0.046
 Mean Value = 0.01473
 Median Value = 0.011
 Standard Deviation = 0.01129
 Coefficient of Variation = 0.7664
 Skewness = 0.8723

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-24	14	0	0.0047	0.026	0.01771	0.02	0.0072	0.4066	-0.758
GWC-25	18	0	0.012	0.046	0.03346	0.036	0.009201	0.275	-0.6671
GWC-26	19	0	0.017	0.0362	0.03168	0.032	0.004324	0.1365	-2.045
GWC-27	19	0	0.0057	0.017	0.01082	0.01	0.003489	0.3224	0.1074
GWC-30	19	0	0.0051	0.011	0.007039	0.007	0.001281	0.182	1.437
GWC-31	15	0	0.0016	0.0051	0.003469	0.0033	0.001211	0.3491	0.007611
GWC-32	19	3	0.001	0.005	0.002218	0.0018	0.001252	0.5645	1.15
GWC-33	18	1	0.00125	0.014	0.008578	0.00926	0.003226	0.3761	-0.42
GWC-34	18	0	0.0097	0.0132	0.01127	0.011	0.0008066	0.07159	0.345
GWC-35	19	0	0.019	0.0221	0.01993	0.02	0.0009031	0.04531	0.6584

Summary Report

Constituent: Chromium Analysis Run 3/18/2020 3:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 7/16/2012 and 6/27/2018, a summary of the selected data set:

Observations = 177
 ND/Trace = 161
 Wells = 10
 Minimum Value = 0.00065
 Maximum Value = 0.012
 Mean Value = 0.001655
 Median Value = 0.00125
 Standard Deviation = 0.001548
 Coefficient of Variation = 0.9352
 Skewness = 2.768

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-24	14	13	0.00065	0.005	0.001646	0.00125	0.001442	0.8758	1.912
GWC-25	17	13	0.00065	0.005	0.001874	0.00125	0.00147	0.7847	1.351
GWC-26	19	19	0.00065	0.005	0.001392	0.00125	0.001304	0.9369	2.331
GWC-27	19	19	0.00065	0.005	0.001392	0.00125	0.001304	0.9369	2.331
GWC-30	19	17	0.00065	0.005	0.001397	0.00125	0.001305	0.9342	2.312
GWC-31	15	1	0.00065	0.012	0.00316	0.0026	0.002657	0.8407	2.622
GWC-32	18	18	0.00065	0.005	0.0014	0.00125	0.001342	0.9583	2.254
GWC-33	18	13	0.00065	0.005	0.001836	0.00125	0.00142	0.7733	1.306
GWC-34	19	19	0.00065	0.005	0.001392	0.00125	0.001304	0.9369	2.331
GWC-35	19	19	0.00065	0.005	0.001392	0.00125	0.001304	0.9369	2.331

Summary Report

Constituent: Copper Analysis Run 3/18/2020 3:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 7/16/2012 and 6/27/2018, a summary of the selected data set:

Observations = 109
 ND/Trace = 107
 Wells = 10
 Minimum Value = 0.0008
 Maximum Value = 0.0048
 Mean Value = 0.002033
 Median Value = 0.0025
 Standard Deviation = 0.0007162
 Coefficient of Variation = 0.3524
 Skewness = 0.3067

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-24	7	5	0.0012	0.0028	0.001643	0.00125	0.0006937	0.4222	0.9976
GWC-25	11	7	0.00125	0.0034	0.002118	0.0025	0.0007966	0.3761	0.07826
GWC-26	12	10	0.00125	0.0027	0.002092	0.0025	0.0006252	0.2989	-0.6692
GWC-27	11	10	0.00125	0.0025	0.002	0.0025	0.0006124	0.3062	-0.4282
GWC-30	12	12	0.00125	0.0025	0.002083	0.0025	0.0006155	0.2954	-0.7071
GWC-31	9	4	0.00125	0.0048	0.002683	0.0025	0.001036	0.3862	0.7769
GWC-32	12	12	0.00125	0.0025	0.002083	0.0025	0.0006155	0.2954	-0.7071
GWC-33	11	10	0.0012	0.0025	0.001927	0.0025	0.0006582	0.3415	-0.184
GWC-34	12	12	0.00125	0.0025	0.002083	0.0025	0.0006155	0.2954	-0.7071
GWC-35	12	8	0.0008	0.0025	0.00161	0.00125	0.0006964	0.4325	0.3964

Summary Report

Constituent: Nickel Analysis Run 3/18/2020 3:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 7/16/2012 and 6/27/2018, a summary of the selected data set:

Observations = 109
 ND/Trace = 88
 Wells = 10
 Minimum Value = 0.00062
 Maximum Value = 0.019
 Mean Value = 0.002274
 Median Value = 0.00125
 Standard Deviation = 0.002826
 Coefficient of Variation = 1.243
 Skewness = 3.743

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-24	7	1	0.00125	0.0036	0.002321	0.0022	0.000737	0.3175	0.3484
GWC-25	11	1	0.00125	0.019	0.008114	0.0071	0.005328	0.6566	0.6993
GWC-26	12	12	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-27	12	12	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-30	12	12	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-31	9	3	0.00125	0.012	0.003506	0.0021	0.003588	1.024	1.707
GWC-32	12	10	0.00094	0.0018	0.00127	0.00125	0.0001892	0.149	1.582
GWC-33	11	10	0.00078	0.00125	0.001207	0.00125	0.0001417	0.1174	-2.846
GWC-34	11	10	0.00062	0.00125	0.001193	0.00125	0.00019	0.1593	-2.846
GWC-35	12	4	0.00125	0.0035	0.002017	0.00185	0.000775	0.3843	0.5765

Summary Report

Constituent: Zinc Analysis Run 3/18/2020 3:42 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 7/16/2012 and 6/27/2018, a summary of the selected data set:

Observations = 110
 ND/Trace = 55
 Wells = 10
 Minimum Value = 0.00083
 Maximum Value = 0.084
 Mean Value = 0.01286
 Median Value = 0.0099
 Standard Deviation = 0.01655
 Coefficient of Variation = 1.287
 Skewness = 2.501

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-24	7	2	0.0043	0.01	0.008186	0.0094	0.00241	0.2944	-0.8652
GWC-25	11	1	0.0057	0.033	0.01227	0.01	0.007607	0.6199	2.014
GWC-26	12	6	0.00125	0.019	0.006754	0.00415	0.005964	0.883	0.8063
GWC-27	12	4	0.0032	0.02	0.008758	0.01	0.005348	0.6106	0.6321
GWC-30	12	9	0.00125	0.01	0.004754	0.0021	0.004155	0.8741	0.4279
GWC-31	9	1	0.0067	0.033	0.0152	0.012	0.008697	0.5722	1.153
GWC-32	12	0	0.029	0.084	0.05408	0.0565	0.01747	0.3231	0.08095
GWC-33	11	4	0.0038	0.01	0.007391	0.008	0.002451	0.3316	-0.134
GWC-34	12	9	0.00083	0.01	0.004323	0.001325	0.00424	0.9807	0.6456
GWC-35	12	4	0.0016	0.01	0.005017	0.0032	0.00374	0.7455	0.611

Summary Report

Constituent: Barium Analysis Run 3/19/2020 11:10 AM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/30/2011 and 2/9/2012, a summary of the selected data set:

Observations = 107
 ND/Trace = 0
 Wells = 27
 Minimum Value = 0.0016
 Maximum Value = 0.27
 Mean Value = 0.03408
 Median Value = 0.018
 Standard Deviation = 0.04625
 Coefficient of Variation = 1.357
 Skewness = 2.97

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-11	4	0	0.19	0.27	0.22	0.21	0.03559	0.1618	0.7684
GWC-12	4	0	0.0089	0.013	0.01025	0.00955	0.001881	0.1835	0.9917
GWC-13	4	0	0.0037	0.0043	0.004075	0.00415	0.000263	0.06454	-0.8332
GWC-14	4	0	0.01	0.019	0.01375	0.013	0.004113	0.2991	0.4045
GWC-15	4	0	0.0061	0.0068	0.00655	0.00665	0.0003109	0.04747	-0.9221
GWC-16	4	0	0.017	0.018	0.0175	0.0175	0.0005774	0.03299	-1.0e-14
GWC-17	4	0	0.014	0.021	0.016	0.0145	0.003367	0.2104	1.09
GWC-18	4	0	0.028	0.033	0.03	0.0295	0.00216	0.07201	0.6872
GWC-19	4	0	0.037	0.048	0.03975	0.037	0.0055	0.1384	1.155
GWC-20	4	0	0.033	0.038	0.0355	0.0355	0.00238	0.06706	-5.1e-15
GWC-21	4	0	0.01	0.015	0.01225	0.012	0.002217	0.181	0.278
GWC-22	4	0	0.024	0.029	0.02625	0.026	0.002217	0.08447	0.278
GWC-23	4	0	0.0075	0.011	0.009625	0.01	0.001702	0.1768	-0.3625
GWC-25	4	0	0.013	0.033	0.02	0.017	0.008907	0.4453	0.9707
GWC-26	4	0	0.035	0.04	0.03725	0.037	0.002217	0.05953	0.278
GWC-27	4	0	0.015	0.02	0.01675	0.016	0.002217	0.1324	0.993
GWC-30	4	0	0.0074	0.0075	0.00745	0.00745	0.00005774	0.00775	0
GWC-31	3	0	0.0016	0.01	0.006133	0.0068	0.004239	0.6912	-0.2817
GWC-32	4	0	0.0035	0.0043	0.003775	0.00365	0.0003594	0.0952	0.9794
GWC-33	4	0	0.0049	0.0085	0.0071	0.0075	0.001549	0.2182	-0.795
GWC-34	4	0	0.0089	0.011	0.01023	0.0105	0.001001	0.09792	-0.5394
GWC-35	4	0	0.018	0.02	0.01925	0.0195	0.0009574	0.04974	-0.4934
GWC-5	4	0	0.024	0.028	0.0255	0.025	0.001915	0.07509	0.4934
GWC-6	4	0	0.06	0.064	0.06225	0.0625	0.002062	0.03312	-0.1153
GWC-7	4	0	0.053	0.068	0.06	0.0595	0.006164	0.1027	0.276
GWC-8	4	0	0.084	0.11	0.0935	0.09	0.01147	0.1227	0.8827
GWC-9	4	0	0.02	0.15	0.1025	0.12	0.05737	0.5597	-0.8827

Summary Report

Constituent: Chromium Analysis Run 3/19/2020 11:10 AM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/30/2011 and 2/9/2012, a summary of the selected data set:

Observations = 106
 ND/Trace = 88
 Wells = 27
 Minimum Value = 0.00065
 Maximum Value = 0.0052
 Mean Value = 0.001431
 Median Value = 0.00065
 Standard Deviation = 0.0009577
 Coefficient of Variation = 0.6692
 Skewness = 0.884

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-11	4	1	0.0025	0.0032	0.002975	0.0031	0.0003202	0.1076	-1.078
GWC-12	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-13	4	3	0.00065	0.0025	0.001425	0.001275	0.0009278	0.6511	0.2017
GWC-14	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-15	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-16	4	2	0.00065	0.0028	0.002062	0.0024	0.0009638	0.4673	-0.9973
GWC-17	4	3	0.00065	0.0025	0.0013	0.001025	0.0008746	0.6728	0.6787
GWC-18	4	3	0.00065	0.0025	0.0013	0.001025	0.0008746	0.6728	0.6787
GWC-19	4	3	0.00065	0.0025	0.0013	0.001025	0.0008746	0.6728	0.6787
GWC-20	4	3	0.00065	0.0025	0.00135	0.001125	0.0008879	0.6577	0.4677
GWC-21	4	3	0.00065	0.0025	0.0013	0.001025	0.0008746	0.6728	0.6787
GWC-22	4	4	0.00065	0.0025	0.001575	0.001575	0.001068	0.6782	0
GWC-23	4	3	0.00065	0.0025	0.001887	0.0022	0.0008721	0.4621	-0.8329
GWC-25	3	2	0.00065	0.0015	0.0009333	0.00065	0.0004907	0.5258	0.7071
GWC-26	4	3	0.00065	0.0025	0.0014	0.001225	0.000912	0.6514	0.2798
GWC-27	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-30	4	4	0.00065	0.0025	0.001575	0.001575	0.001068	0.6782	0
GWC-31	3	2	0.00065	0.0052	0.002783	0.0025	0.002288	0.8221	0.224
GWC-32	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-33	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-34	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-35	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-5	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-6	4	3	0.00065	0.0025	0.00135	0.001125	0.0008879	0.6577	0.4677
GWC-7	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-8	4	4	0.00065	0.0025	0.001112	0.00065	0.000925	0.8315	1.155
GWC-9	4	2	0.0013	0.0025	0.0021	0.0023	0.0005657	0.2694	-0.8165

Summary Report

Constituent: Copper Analysis Run 3/19/2020 11:10 AM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/30/2011 and 2/9/2012, a summary of the selected data set:

Observations = 107
 ND/Trace = 107
 Wells = 27
 Minimum Value = 0.0065
 Maximum Value = 0.0065
 Mean Value = 0.0065
 Median Value = 0.0065
 Standard Deviation = 0
 Coefficient of Variation = 0
 Skewness = NaN

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-11	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-12	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-13	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-14	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-15	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-16	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-17	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-18	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-19	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-20	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-21	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-22	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-23	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-25	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-26	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-27	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-30	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-31	3	3	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-32	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-33	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-34	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-35	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-5	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-6	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-7	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-8	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN
GWC-9	4	4	0.0065	0.0065	0.0065	0.0065	0	0	NaN

Summary Report

Constituent: Nickel Analysis Run 3/19/2020 11:10 AM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/30/2011 and 2/9/2012, a summary of the selected data set:

Observations = 106
 ND/Trace = 94
 Wells = 27
 Minimum Value = 0.00125
 Maximum Value = 0.0072
 Mean Value = 0.001615
 Median Value = 0.00125
 Standard Deviation = 0.001153
 Coefficient of Variation = 0.7136
 Skewness = 3.41

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-11	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-12	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-13	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-14	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-15	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-16	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-17	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-18	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-19	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-20	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-21	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-22	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-23	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-25	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-26	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-27	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-30	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-31	3	0	0.0029	0.0041	0.003333	0.003	0.0006658	0.1997	0.6892
GWC-32	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-33	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-34	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-35	4	0	0.0027	0.0048	0.003975	0.0042	0.0009845	0.2477	-0.4643
GWC-5	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-6	4	1	0.00125	0.0072	0.004137	0.00405	0.002704	0.6536	0.06896
GWC-7	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-8	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-9	3	1	0.00125	0.0072	0.004583	0.0053	0.003039	0.6631	-0.4091

Summary Report

Constituent: Zinc Analysis Run 3/19/2020 11:10 AM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Landfill

For observations made between 8/30/2011 and 2/9/2012, a summary of the selected data set:

Observations = 106
 ND/Trace = 33
 Wells = 27
 Minimum Value = 0.00125
 Maximum Value = 0.11
 Mean Value = 0.007843
 Standard Deviation = 0.00325
 Coefficient of Variation = 2.506
 Skewness = 4.624

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
GWC-11	4	3	0.00125	0.005	0.0025	0.001875	0.001768	0.7071	0.8165
GWC-12	4	3	0.00125	0.0027	0.001612	0.00125	0.000725	0.4496	1.155
GWC-13	4	3	0.00125	0.0028	0.001637	0.00125	0.000775	0.4733	1.155
GWC-14	4	0	0.0028	0.0046	0.00365	0.0036	0.0007767	0.2128	0.1774
GWC-15	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-16	4	1	0.00125	0.0081	0.004037	0.0034	0.002893	0.7165	0.7127
GWC-17	4	1	0.00125	0.0035	0.002662	0.00295	0.0009978	0.3748	-0.8041
GWC-18	4	2	0.00125	0.0027	0.001925	0.001875	0.0007837	0.4071	0.03239
GWC-19	4	1	0.00125	0.0054	0.003687	0.00405	0.001802	0.4887	-0.5727
GWC-20	4	2	0.00125	0.0038	0.002275	0.002025	0.001252	0.5503	0.3015
GWC-21	4	0	0.0086	0.01	0.00915	0.009	0.0006455	0.07055	0.5152
GWC-22	4	1	0.00125	0.0068	0.004237	0.00445	0.002532	0.5974	-0.1778
GWC-23	4	0	0.0031	0.0074	0.004875	0.0045	0.002097	0.4301	0.2756
GWC-25	4	0	0.0028	0.0092	0.004475	0.00295	0.003151	0.7041	1.152
GWC-26	4	0	0.0033	0.0061	0.0042	0.0037	0.001283	0.3055	1.066
GWC-27	4	0	0.0044	0.0057	0.005025	0.005	0.0005377	0.107	0.1532
GWC-30	4	1	0.00125	0.009	0.004862	0.0046	0.003436	0.7067	0.1861
GWC-31	3	0	0.0091	0.028	0.01903	0.02	0.009487	0.4984	-0.1852
GWC-32	4	0	0.099	0.11	0.1048	0.105	0.006076	0.058	-0.01351
GWC-33	4	0	0.0033	0.0071	0.004975	0.00475	0.001969	0.3957	0.1027
GWC-34	4	2	0.00125	0.0029	0.002025	0.001975	0.0008986	0.4438	0.02467
GWC-35	4	0	0.0046	0.006	0.005525	0.00575	0.0006602	0.1195	-0.772
GWC-5	4	3	0.00125	0.0025	0.001562	0.00125	0.000625	0.4	1.155
GWC-6	4	1	0.00125	0.0047	0.003487	0.004	0.001547	0.4437	-0.9221
GWC-7	4	4	0.00125	0.00125	0.00125	0.00125	0	0	NaN
GWC-8	4	1	0.00125	0.004	0.002762	0.0029	0.001134	0.4104	-0.4118
GWC-9	3	0	0.004	0.0086	0.0069	0.0081	0.002524	0.3658	-0.676



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APPENDIX C
In-Situ Operators Manual

Aqua TROLL[®] 400 Instrument



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The presence of the Waste Electrical and Electronic Equipment (WEEE) marking on the product indicates that the device is not to be disposed via the municipal waste collection system of any member state of the European Union.

For products under the requirement of WEEE directive, please contact your distributor or local In-Situ office for the proper decontamination information and take back program, which will facilitate the proper collection, treatment, recovery, recycling, and safe disposal of the device.

0088302 | 2019-05-10

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Introduction

This manual is intended to describe the characteristics, operation, calibration, and maintenance of the Aqua TROLL 400 Instrument. Communication registers and programming information can be found in the Modbus and SDI-12 Reference Guide.

Scope

This manual covers the following information.

Chapter 1—Introduction

Chapter 2—Safety

Chapter 3—General Specifications

Chapter 4—Sensor Specifications

Chapter 5—Instrument Overview

Chapter 6—System Components

Chapter 7—Probe Setup

Chapter 8—Communication Settings and Sensor Calibration

Chapter 9—Controller Requirements and Connections

Chapter 10—Care and Maintenance

Chapter 11—Declaration of Conformity

Modbus registers and SDI-12 programming information can be found in the Modbus and SDI-12 Reference Guide.

Serial Number Location

The serial number is located on the large label on the instrument body. The serial number is programmed into the instrument and displayed in the control software.

Safety

Electrical Safety

Electrical installation must be performed by properly trained and qualified personnel.

After the stripped-and-tinned cable has been properly wired to the controller, the user can safely connect the instrument to the cable using the twist-lock connector.

General Specifications

Operating temperature	-5 to 50° C (23 to 122° F)
Storage temperature	-40 to 65° C (-40 to 149° F)
Dimensions	4.7 cm (1.85 in.) OD x 26.9 cm (10.6 in.) with restrictor installed (does not include connector)
Weight	694 g (1.53 lbs)
Wetted materials	PVC, 316 stainless steel, titanium, Acetal, Viton [®] , PC/PMMA
Environmental rating	IP68 with all sensors and cable attached. IP67 with sensors removed and cable detached.
Reading rate	1 reading every 5 seconds (no internal logging)
Power	Required: 8–36 VDC (no internal battery). Measurement current: 16 mA @ 24 VDC. Sleep current: 40 µA @ 24 VDC
Interface	In-Situ Con TROLL [®] PRO System; In-Situ TROLL [®] Link Telemetry 101 or 201 System; SCADA/PLC; and third-party data loggers, samplers, controllers, and telemetry systems.
Cable	Customizable, non-vented (absolute) RuggedCable [®] System is available in either Tefzel [®] or polyurethane.
Warranty	2 years
Notes	Specifications are subject to change without notice. Viton is a registered trademark of DuPont Performance Elastomers L.L.C.

Sensor Specifications

Level, Depth, Pressure Sensor Specifications

Accuracy	Typical $\pm 0.1\%$ FS @ 15° C; $\pm 0.3\%$ FS max. from 0 to 50° C
Range	76 m (250 ft); absolute (non-vented)
Resolution	$\pm 0.01\%$ FS or better
Sensor Type	Fixed
Response Time	Instantaneous in thermal equilibrium
Units of Measure	Pressure: psi, kPa, bar, mbar, mmHg, inHg Level: mm, cm, m, in, ft
Methodology	Piezoresistive; ceramic

Conductivity Sensor Specifications

Accuracy	Typical $\pm 0.5\% + 1 \mu\text{S/cm}$; $\pm 1\%$ max.
Range	5 to 100,000 $\mu\text{S/cm}$
Resolution	0.1 $\mu\text{S/cm}$
Sensor Type	Fixed
Response Time	Instantaneous in thermal equilibrium
Units of Measure	Actual conductivity ($\mu\text{S/cm}$, mS/cm) Specific conductivity ($\mu\text{S/cm}$, mS/cm) Salinity (PSU) Total dissolved solids (ppt, ppm) Resistivity (Ohms-cm) Density (g/cm^3)
Methodology	Std. Methods 2510 EPA 120.1

RDO (Optical Dissolved Oxygen Sensor) Specifications

Accuracy	± 0.1 mg/L from 0 to 20 mg/L $\pm 2\%$ of reading from 20-60 mg/L
Range	0-60 mg/L
Resolution	0.01 mg/L
Sensor Type	Fixed with replaceable RDO Sensor Cap (life: 1 year typical)
Response Time	RDO X-Cap: T63<15 sec, T90<45 sec, T95<60 sec RDO Fast Cap: T63<3 sec, T90<30 sec, T95<45 sec
Units of Measure	mg/L, % saturation, ppm
Methodology	EPA-approved In-Situ Methods 1002-8-2009 1003-8-2009 1004-8-2009

ORP Sensor Specifications

Accuracy	± 5.0 mV
Range	± 1400 mV
Resolution	0.1 mV
Sensor Type	Replaceable pH/ORP combo sensor
Response Time	<15 sec.
Units of Measure	mV
Methodology	Std. Methods 2580

pH Sensor Specifications

Accuracy	±0.1 pH unit from 0 to 12 pH units
Range	0 to 14 pH units
Resolution	0.01 pH unit
Sensor Type	Replaceable pH/ORP combo sensor
Response Time	<15 sec., pH 7 to pH 4
Units of Measure	pH units
Methodology	Std. Methods 4500-H+ EPA 150.2

Temperature Sensor Specifications (Probe)

Accuracy	±0.1° C
Range	-5 to 50° C (23 to 122° F)
Resolution	0.01° C or better
Sensor Type	Fixed
Response Time	T90<120 sec
Units of Measure	Celsius, Fahrenheit
Methodology	EPA 170.1

Instrument Overview

Instrument Description

The Aqua TROLL 400 Instrument is a multiparameter water quality probe. The dissolved oxygen, conductivity, pressure, and temperature sensors are integrated into the instrument. The pH/ORP sensor and the RDO Sensor Cap are replaceable.

The instrument is intended for use with a PLC/SCADA system or other data-logging device. It does not include internal power or an internal data logger. The instrument provides Modbus RS485 and SDI-12 interfaces for use with an external controller.

System Components

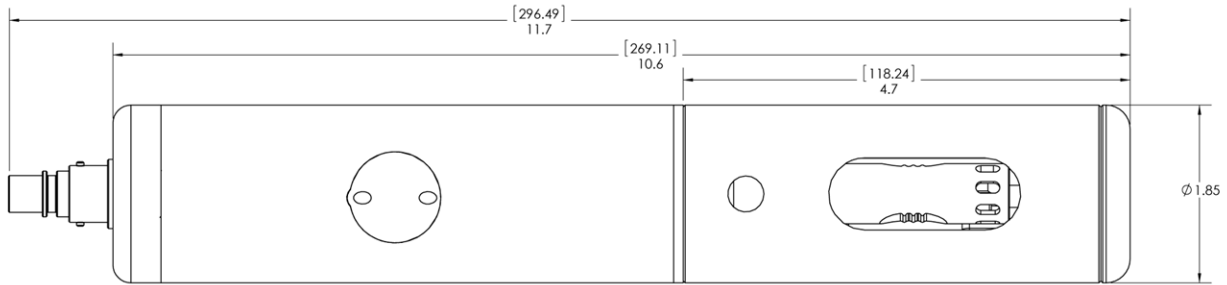
The system includes the following components.

- Integrated sensors: RDO, conductivity, pressure, and temperature
- Plug-in pH/ORP sensor
- Classic Cap, Fast Cap, or RDO-X Sensor Cap. The Fast Cap ships with the instrument.
- Stainless steel restrictor
- Calibration and storage cup
- and cable

Accessories purchased separately

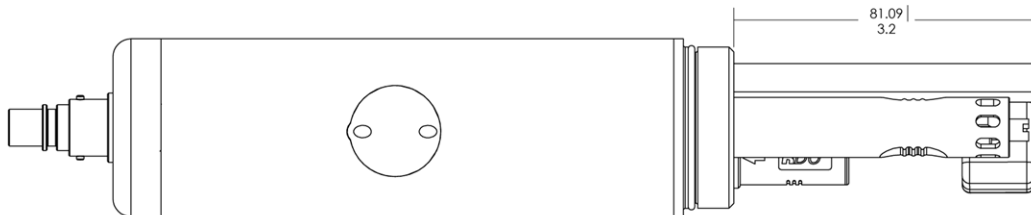
- Replacement RDO Sensor Cap
- Replacement pH/ORP sensor
- Calibration Kit (includes calibration cup, 3 sponge wafers, vented cap, and storage cap)
- Stripped-and-tinned cable—length customizable
- Maintenance kit
- Comm Kit

Probe Dimensions with Restrictor On



Total length with connector	296.49 mm (11.7 in.)
Total length without connector	269.11 mm (10.6 in.)
Restrictor length	118.24 mm (4.7 in.)
Diameter	47 mm (1.85 in.)

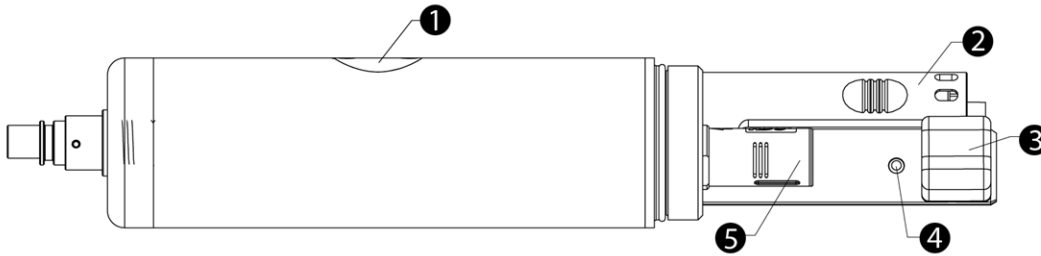
Probe Dimensions with Restrictor Off



Sensor length | 81.09 mm (3.2 in.)

Sensors

Sensors include optical RDO (Rugged Dissolved Oxygen), pH/ORP, conductivity, pressure, and temperature.



1	Pressure sensor 76 m (250 ft)
2	pH/ORP sensor
3	Conductivity sensor
4	Temperature sensor
5	RDO Sensor

Cable

The cable includes a twist-lock connection to the instrument and a stripped-and-tinned termination that must be wired to a controller. Cable length is customizable. Maximum length is 1,219 m (4,000 ft) for Modbus output, and 60.9 m (200 ft) for SDI-12 output.

Win-Situ 5 Software

The Win-Situ 5 Software is used to calibrate the sensors and to configure the instrument settings to communicate with a process controller or data logger. See the Communication Settings and Calibration section for more details.

Probe Setup

The probe is shipped with a storage plug and protective dust caps in place.



1	Dust cap protector on the RDO Sensor. (Install the RDO Cap before deploying the instrument.)
2	pH/ORP storage plug. (Remove the storage plug and install the pH/ORP sensor before deploying the instrument.)
3	Dust cap protector on the twist-lock cable connector.

Installing the Sensors



1. Twist the restrictor off of the probe.



2. Locate the RDO Sensor Cap container and remove the cap.



3. Remove the dust cap from the RDO Sensor.



4. Align the slotted edge of the RDO cap with the flat edge of the RDO sensor. Press the cap firmly into position.



5. Remove the orange plug from the pH/ORP sensor port.



6. Use the alignment marks to properly align the pH/ORP sensor with the port connection, and press firmly into place. Push until the sensor is completely inserted into the port.



7. Twist the restrictor back onto the probe.



Important: Avoid touching the sensor lens and the sensing material on the top of the cap.



Important: The RDO Sensor Cap and pH/ORP sensor must be installed firmly in place to prevent water from entering the instrument.

Communication Settings and Calibration

Before you program the instrument to work with your PLC/SCADA system, you must set appropriate communication settings using a TROLL Com, AC/DC converter, and Win-Situ 5 Software. The software can also be used to calibrate sensors and to restore factory calibration and communication settings.



Always wear appropriate personal protective equipment and use proper laboratory technique when calibrating the sensors and operating the instrument.

Connect the Instrument to the Computer

Using a direct-connect TROLL Com Communication Device, powered with an AC/DC power supply, you can connect the Aqua TROLL 400 to a computer running Win-Situ 5 Software version 5.6.22 or later.



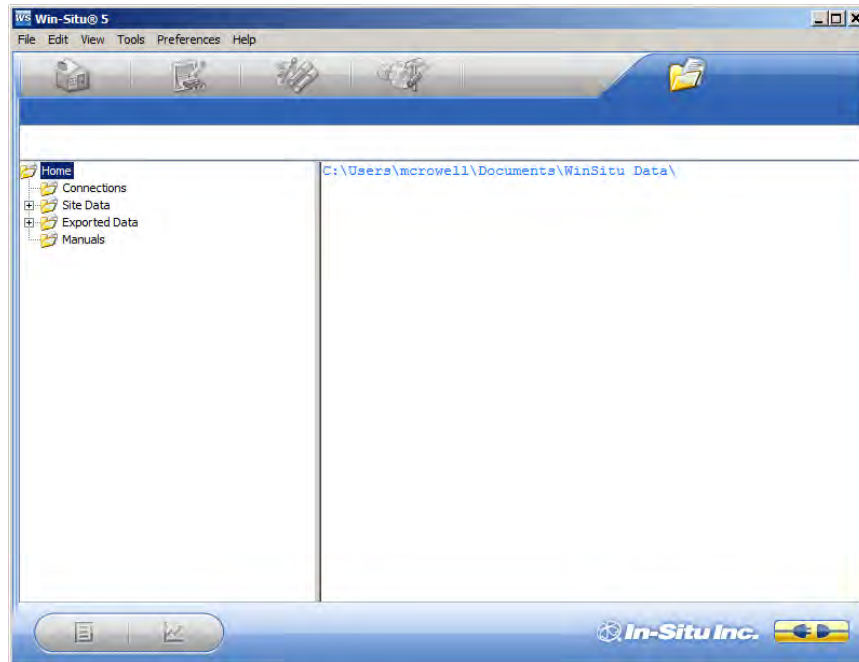
Connect the Instrument to Win-Situ 5 Software






Install Win-Situ 5 Software from www.in-situ.com. Make sure you select the check box that installs the USB drivers.



Open Win-Situ 5 Software and click the **Connect** button  to connect to the instrument.

Data Tab

When you open Win-Situ 5 Software, the **Data** tab appears. The left side of the screen contains a file tree where you can view data you have exported to Microsoft Office Excel. The disconnected plug icon in the lower-right corner of the screen indicates that the software is not yet communicating with an instrument.

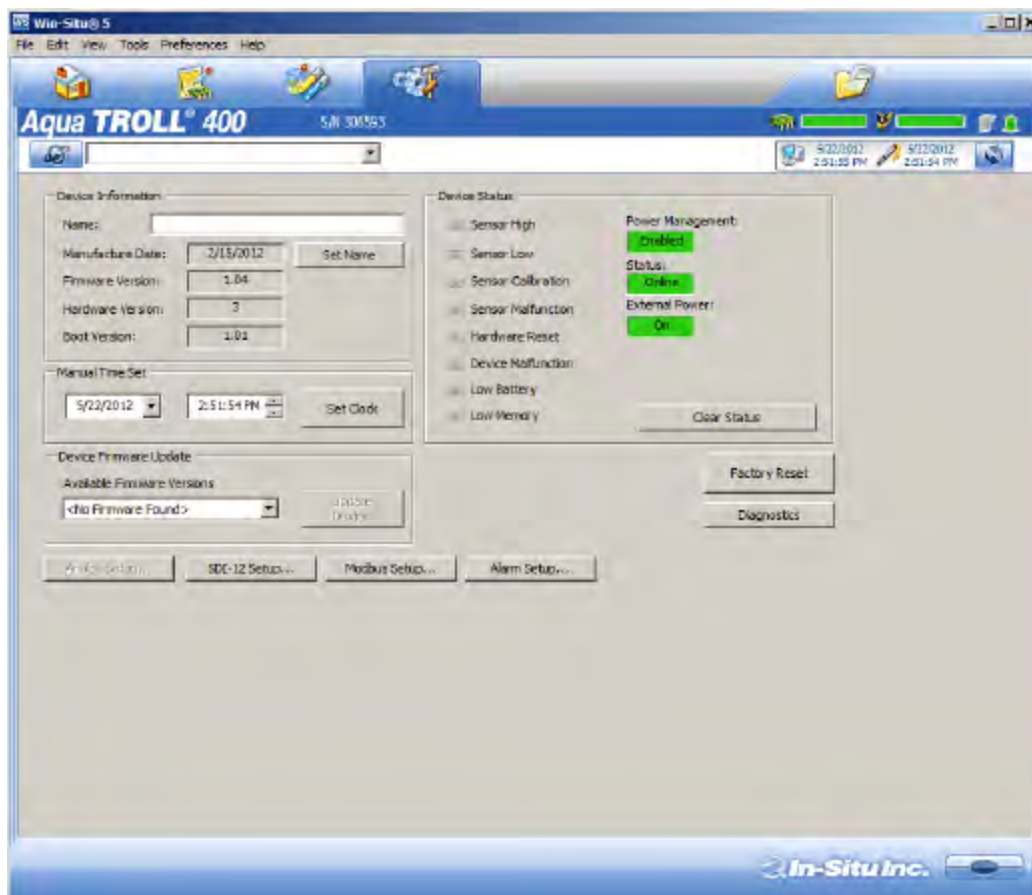


Screen Element	Definition
	The disconnected plug indicates the instrument is not communicating with the software. Click to establish communication with a connected instrument.
	The connected plug indicates the instrument is communicating with the software. Click to disconnect the software from the instrument.
	The Home tab displays real-time readings from the instrument. When connection to the instrument is first established, the software displays one reading of all available parameters in light gray. You must click the Play button  at the bottom of the screen to view real-time readings.
	The Logging tab displays a list of logs stored in the connected instrument. When you click the Logging tab, it can take a moment for the software to retrieve information from the instrument. (Not applicable for the RDO PRO-X and the Aqua TROLL 400.)

Screen Element	Definition
	<p>The Sensors tab lists the sensors in the connected instrument, along with their serial numbers and the dates of factory calibration and user calibration. Use the buttons in this tab to calibrate sensors that support user calibration and configure sensors that are supported by the instrument.</p>
	<p>The Device Setup tab allows access to instrument information and settings such as instrument name, serial number, firmware version, communication settings, diagnostics, and factory reset options.</p>

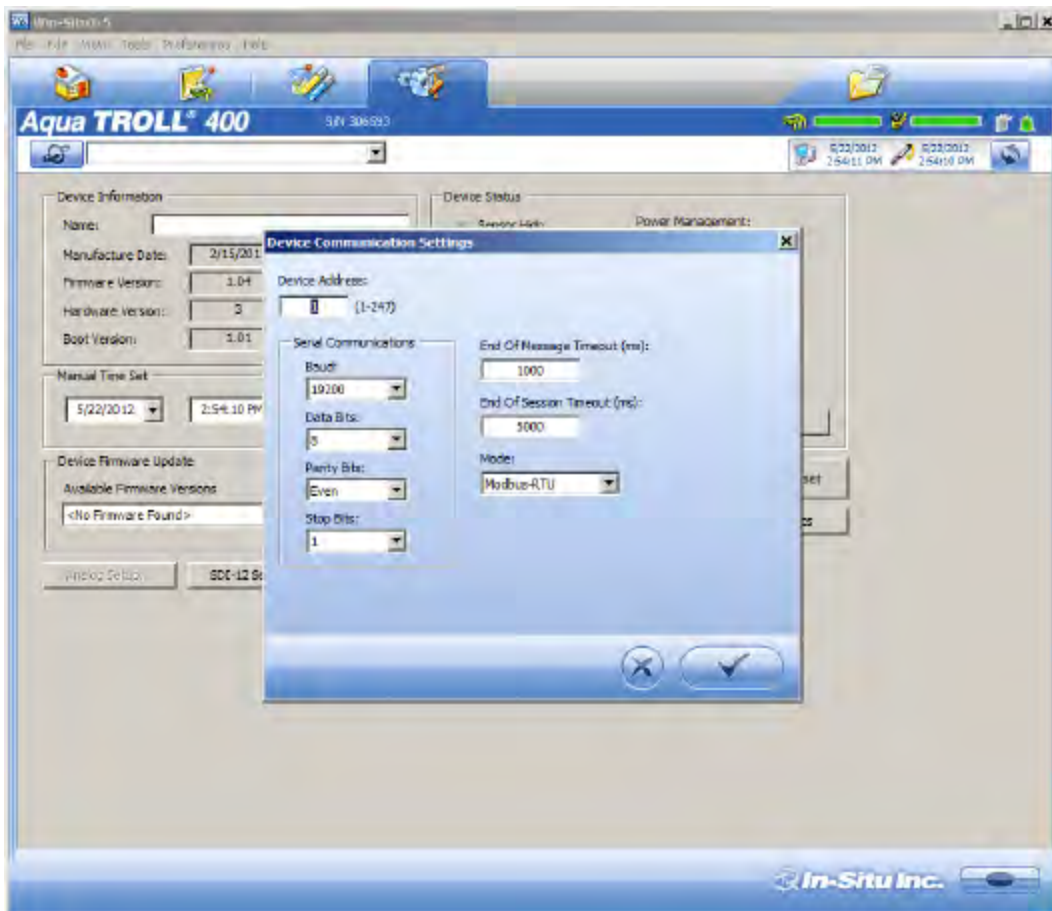
Set Communication Outputs

The Device Setup Tab allows you to access communication settings, instrument information and status, factory reset, diagnostics, and alarm setup. The instrument can communicate via Modbus or SDI-12 protocols. However, the instrument can use only one of the protocols at a time.



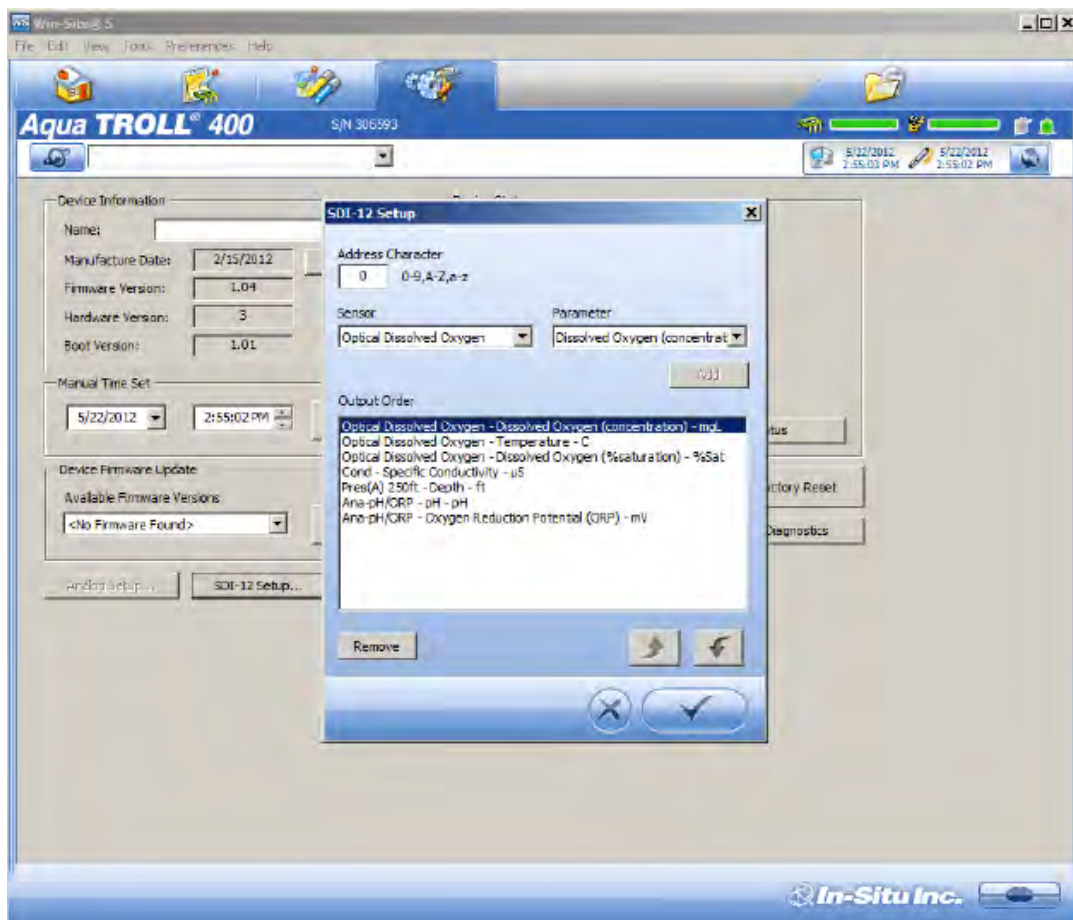
Modbus Setup

Click the **Modbus setup** button and assign instrument settings according to the requirements of your controller. For instrument Modbus registers, see the Modbus and SDI-12 Reference Guide.



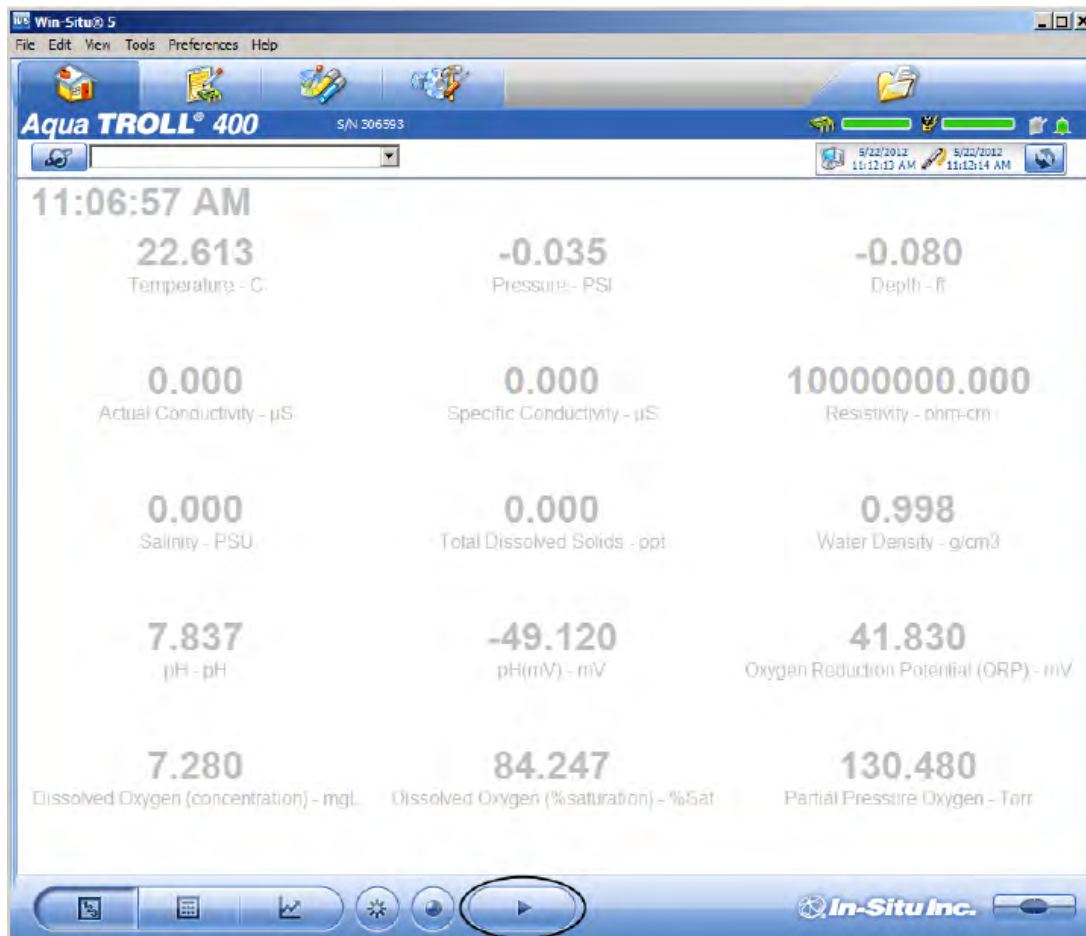
SDI-12 Setup




SDI-12 setup allows you to set the instrument address, select the parameters you intend to log, and select the order in which the parameters will appear in your SCADA system or datalogger file. See the Help menu in Win-Situ 5 Software for details. To view SDI-12 programming information, see the Modbus and SDI-12 Reference Guide.


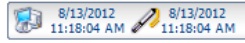









View and Record Data

The **Home** tab allows you to view data for the parameters that have been enabled. Gray values indicated that the instrument is not polling live data. To poll live data, click the **Play** button.

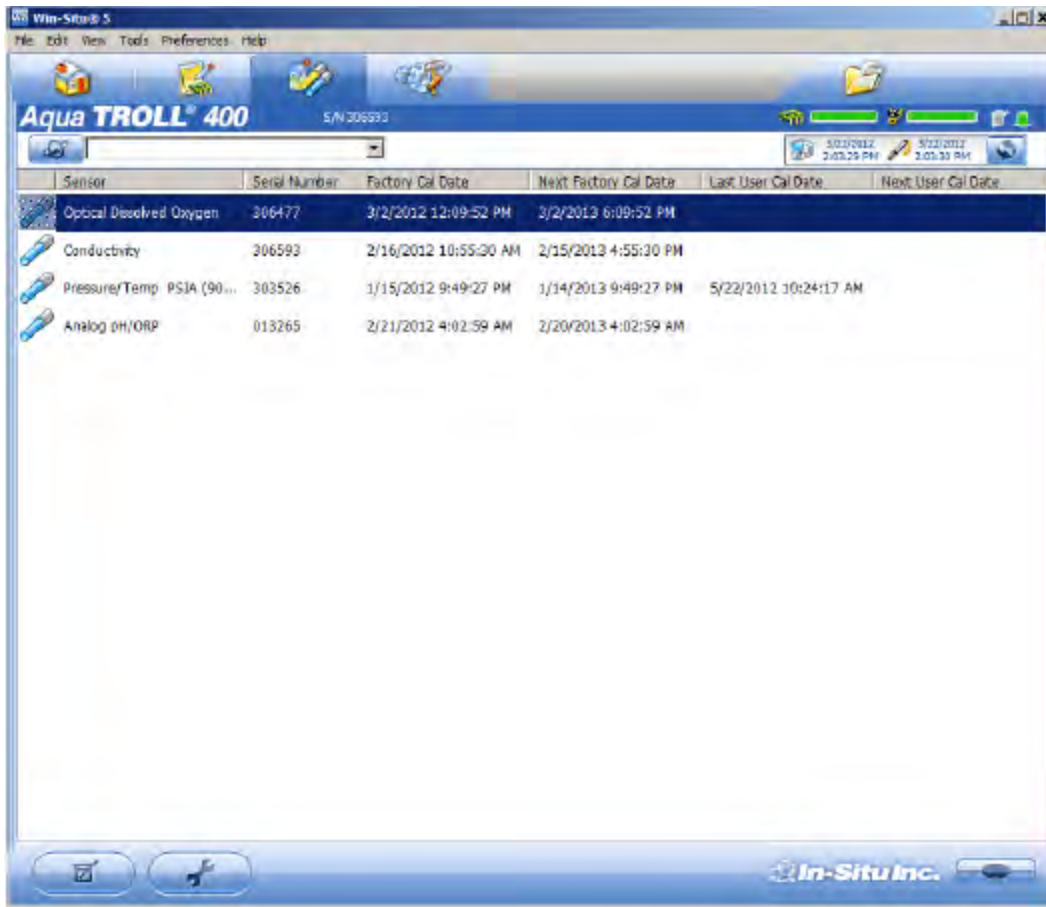




Screen Element	Definition
	The Sites button allows you to add, edit, or delete a site. (Not applicable for Aqua TROLL 400 and RDO PRO-X.)
	These icons allow you to view the memory and battery usage for an instrument that includes internal logging. (Not applicable for Aqua TROLL 400 and RDO PRO-X.)
	This icon allows you to view the logging status for an instrument that includes internal logging. (Not applicable for Aqua TROLL 400 and RDO PRO-X.)

Screen Element	Definition
	<p>The Alarm icon provides additional instrument status information.</p> <p>Green—No alarms or warnings</p> <p>Yellow—One or more warnings</p> <p>Red—One or more alarms</p> <p>Move the cursor over the alarm icon to view a description. Click the Device Setup tab for detailed information on the alarm or warning.</p> <p>(Not applicable for Aqua TROLL 400 and RDO PRO-X.)</p>
	<p>System Time is displayed on the left. Device Time is displayed on the right. Clocks are updated once every two seconds. When the Device Time is displayed in red, it differs from the current System Time, and should be synchronized.</p>
	<p>The Time Sync button is used to write the current PC time to the instrument. If you need to set the instrument clock to a time other than the system (PC) time, use the Set Clock button on the Device Setup tab.</p>
	<p>Meter View shows the last known parameter values, displayed with current units and time stamp. Readings are sized to occupy the entire screen. This is the default display in the Home tab. If the type is black, the readings are updating in real time.</p>
	<p>List View is a running list of the most recent records. New readings are continuously added to the top of the list and old readings scroll off the bottom.</p>
	<p>Graph View shows a real-time trend graph of the selected parameters.</p>
	<p>The Snapshot button allows you to take a snapshot of the data that currently appears on screen and save it to a file. Non-logging instruments can save data as CSV files but not as WSL data files.</p>
	<p>The Stop button allows you to continuously record live data and save it to a file. Non-logging instruments can save data as CSV files, but not as WSL data files.</p>
	<p>The Play button allows you to start and stop data polling.</p>

Calibrate and Set Up Sensors

The **Sensors** tab allows you to view the sensors that are available on the instrument. From this tab you can access calibration Wizards and sensor setup options. You can also view sensor serial numbers, factory calibration dates, and user calibration dates.



Screen Element	Purpose
	The Calibration button starts the Calibration Wizard for the selected sensor.
	This button opens the setup options for the selected sensor. These options include selecting parameters, setting units, and setting sentinel values.

When you click on the sensor you want to calibrate or configure, the **Calibration** button and the **Sensor Setup** buttons become active.

Calibration Frequency Recommendations

In-Situ sensors are factory calibrated across the entire range of each sensor, and thus achieve a very high degree of accuracy and stability for extended periods of time without user calibration. In-Situ recommends inserting the instrument into a known calibration standard to check the accuracy of a sensor prior to performing any user calibration if you suspect drift, unless a user calibration is required by a standard operating procedure. Calibration requirements will vary by application and fouling conditions.

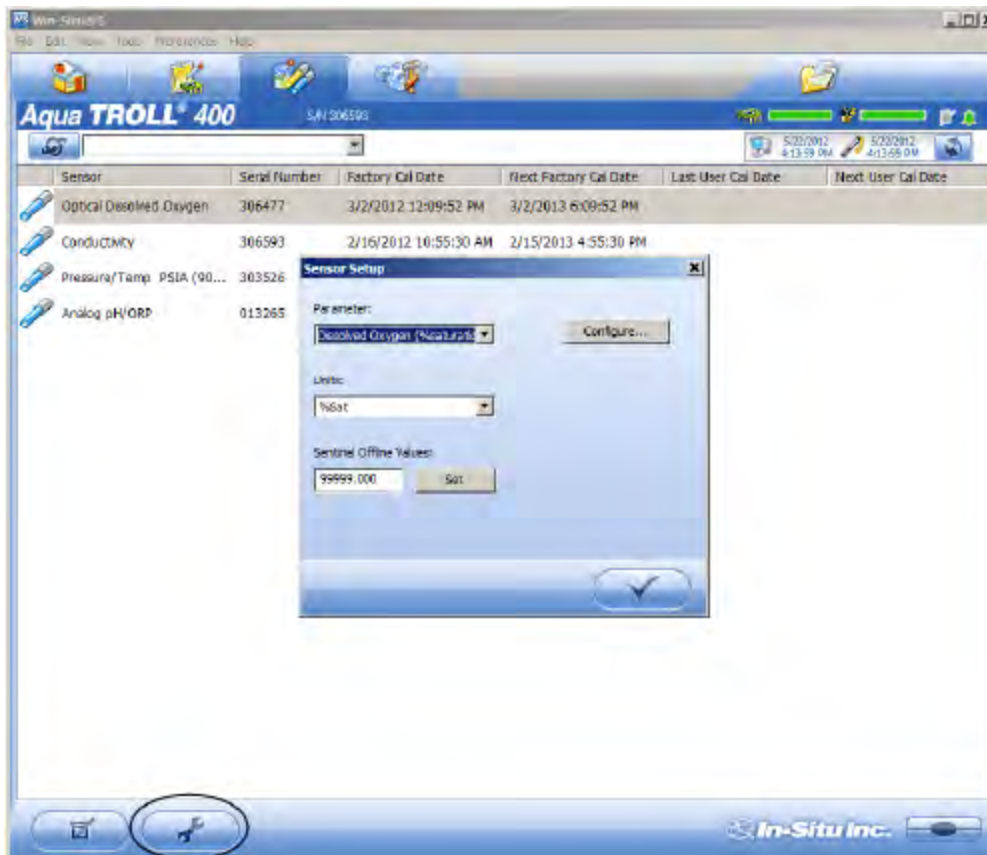
Sensor	Recommended User Calibration Frequency	Recommended Factory Calibration Frequency	Notes
Conductivity	3-6 months	12 months	K-cell value: 0.7 to 1.3
pH	4-6 weeks or as required by user protocol or site conditions	12 months	Single point: Theoretical mV ± 30 mV 2- or 3-point Slope: -66 to 50 mV/pH 2- or 3-point Offset: ± 30 mV at pH 7
ORP	4-6 weeks or as required by user protocol or site conditions	12 months	Offset: ± 30 mV
RDO	12 months or as required by user protocol or site conditions	12 months	2-point Slope: 0.7 to 1.3 2-point Offset: ± 0.3 mg/L

Factory Calibration

Factory calibration includes a thorough cleaning, full functionality check and sensor adjustments to all applicable sensors over the entire calibrated temperature range. We recommend a factory calibration every 12 months or when the unit appears to drift significantly.

Set Parameter Units and Sentinel Values

You can set sentinel values and set units for parameters by selecting a parameter and clicking the **Setup Sensor** button.



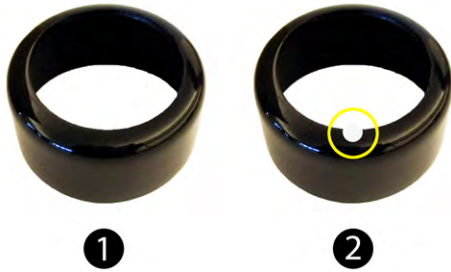
Screen Element	Purpose
Parameter	This menu lists the parameters that are available for the selected sensor.
Units	This drop-down list allows you to select units for the parameter you selected.
Sentinel Offline Value	This is a text field in which you can enter the value that you want to see in the data when a sensor is unable to communicate. After you have entered a value, click the Set button to save it.
Configure	This button becomes active when you select a parameter that includes additional configuration options. Click the Configure button to view the additional options.
Check mark	Clicking the Check mark saves the changes you have made in this screen.

RDO Sensor Calibration

The optical Rugged Dissolved Oxygen sensor is very stable. The factory calibration should produce readings within 3% accuracy. If you require readings with greater accuracy we recommend that you perform a 1-point, 100% water-saturated air calibration as described below.

Calibration 100% Oxygen Saturation

1. Place the calibration cap, with the vent hole, on the top of the calibration cup.



1	Storage cap
2	Calibration cap with vent hole

2. Place the sponge wafer in the bottom of the calibration cup and saturate the sponge wafer with approximately 10 mL clean water.
3. Gently dry the probe and sensing material with a paper towel. Ensure that the probe and the sensing surface are free of water and fouling.
4. Place the instrument into the calibration cup.

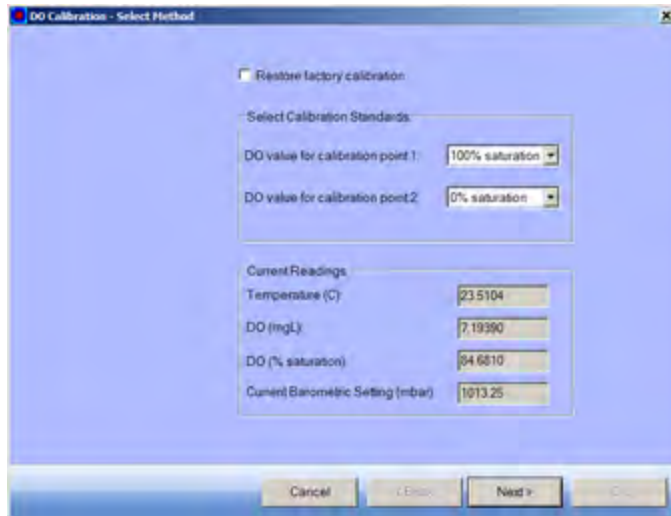


5. Wait 5 to 10 minutes for temperature stabilization prior to calibration.



Note: Do not leave the instrument in the calibration cup for more than 30 minutes. This can cause condensation to form on the sensing material, providing false low readings after calibration.

6. In the software, select the **Sensor Setup** tab.
7. Select the **RDO Dissolved Oxygen** parameter.
8. Click **Calibrate**.
9. By default, 100% saturation is selected for the first point of the calibration. If you intend to perform a 2-point calibration, also select 0% saturation from the drop-down list. Otherwise, leave as “None.”



10. Click **Next**.
11. Enter the barometric pressure or elevation at which the instrument will be deployed.
12. Click **Next**.
13. Click **OK** to start the calibration.
14. When the screen indicates that the calibration has reached stability, click **Accept** to complete the calibration, or click **Cancel** to return to the previous calibration.

Calibrate 0% Oxygen Saturation

We recommend that you perform the 0 % oxygen calibration only if you intend to measure dissolved oxygen at a concentration of less than 4 mg/L.

1. If you selected to perform a 2-point calibration, you are prompted to set up the solution for the second point of the calibration.
2. Remove the wet sponge from the cup.
3. Fill the calibration cup to the fill line with approximately 130 mL of fresh sodium sulfite solution.
4. Gently place the instrument in the calibration cup, taking care to not force the solution out the top of the calibration cup.



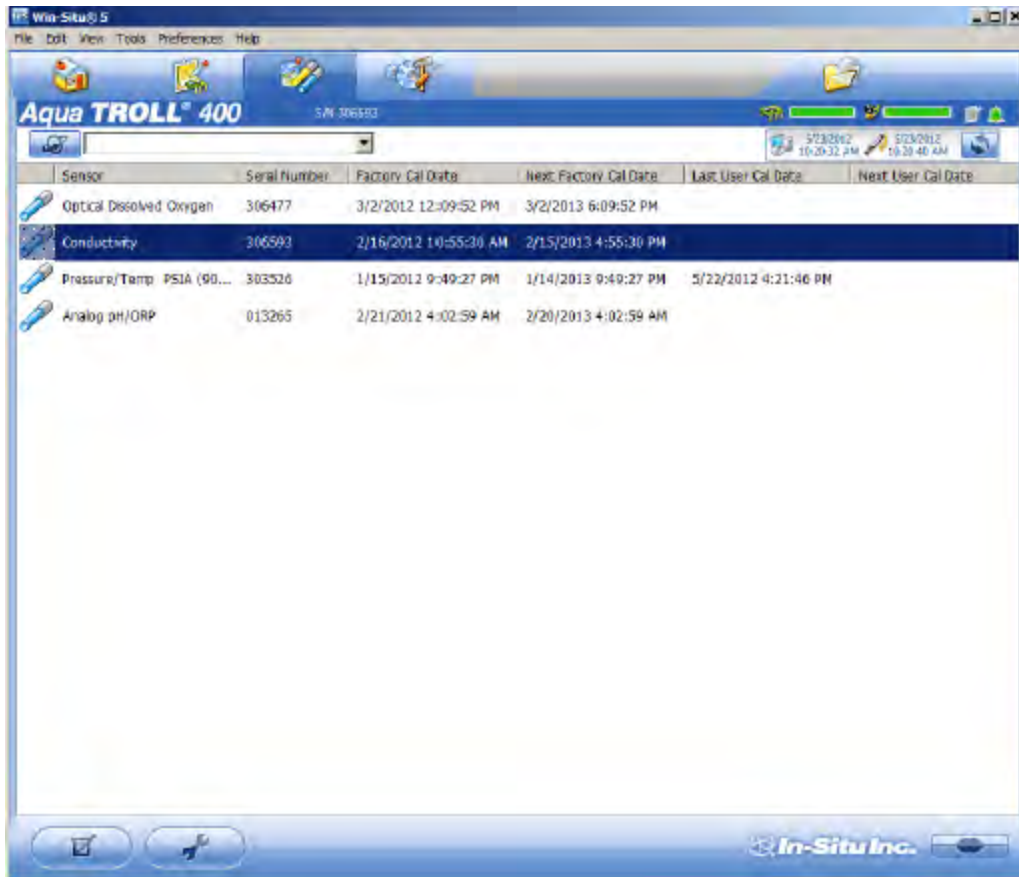
5. Completely submerge the RDO Sensor into the solution.
6. Click **OK**, to start the calibration.
7. When the screen indicates that the calibration has reached stability, click **Accept** to complete the calibration, or click **Cancel** to return to the previous calibration.
8. You can save or print the calibration report.
9. Click **OK** to complete the calibration.
10. Once calibration is complete, remove the instrument from the calibration cup and rinse both thoroughly with clean water.

Conductivity Calibration

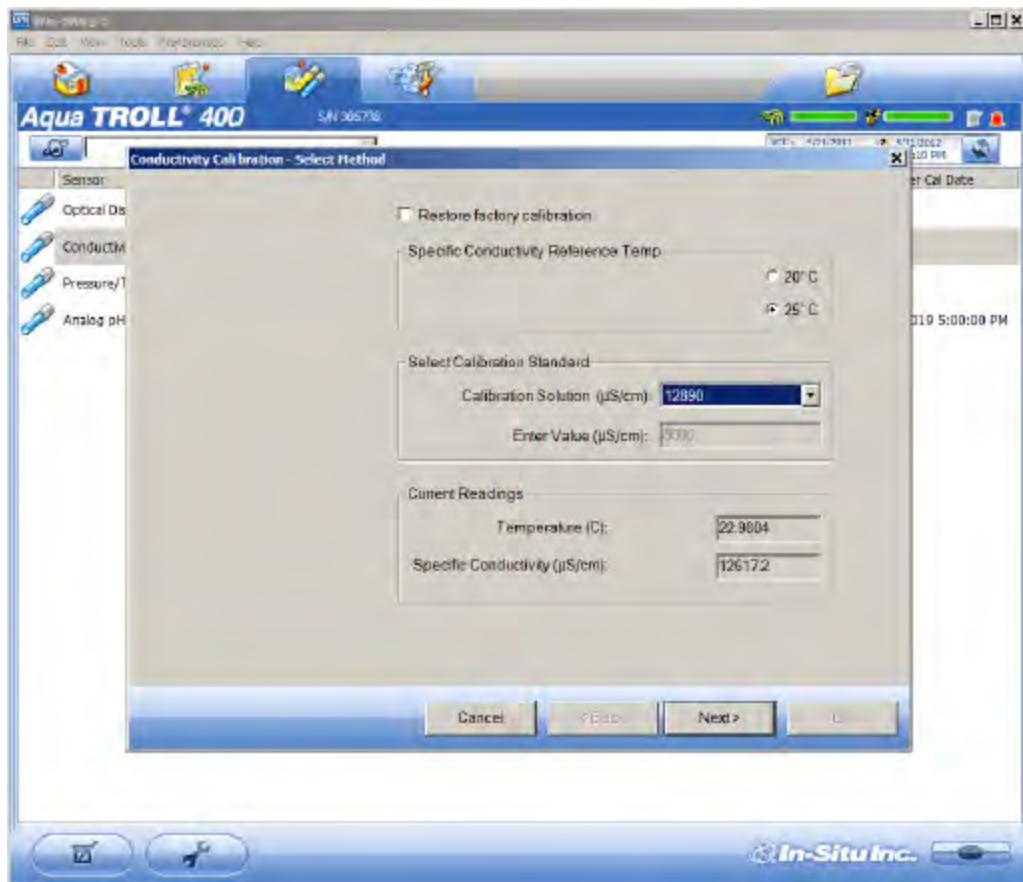
The conductivity sensor is calibrated with NIST-traceable standards at the factory, which provides a high degree of linearity across the entire operating range of 5 to 100,000 $\mu\text{S}/\text{cm}$. This sensor is capable of meeting its published specifications without requiring additional calibration by the user. Most commercially available standards can introduce a larger potential measurement error than the sensor's initial factory calibration.

User calibration is recommended only if you must conform to a standard operating procedure or if the conductivity cell has undergone physical change (e.g., deposits on conductivity cell walls that cannot be removed or physical damage to the conductivity cell walls).

1. Fill the calibration cup to the fill line with approximately 130 mL of the desired calibration solution.
2. Place the instrument in the solution taking care to not force the solution out the top of the calibration cup.
3. In Win-Situ 5 Software, select the **Conductivity** sensor.



4. Click the **Calibrate** button in the left corner of the screen.
5. Select either 20° C or 25° C as the reference temperature, as indicated by the reference calibration solution.



6. Select the appropriate calibration standard from the drop-down list. If you select “User Defined,” enter the value of the solution.
7. Click **Next**.
8. Place the instrument into the calibration cup and allow time for the temperature to stabilize.
9. Gently tap the sides of the calibration cup against the palm of your hand to remove any bubbles in the conductivity cell. Visually inspect to ensure that all bubbles are removed.
10. Click **OK** to start the calibration.
11. When the screen indicates that the calibration has reached stability, click **Accept** to complete the calibration, or click **Cancel** to return to the previous calibration.
12. You can save or print the calibration report.
13. Click **OK** to complete the calibration.
14. Once calibration is complete, remove the instrument from the calibration cup and rinse both thoroughly with clean water.

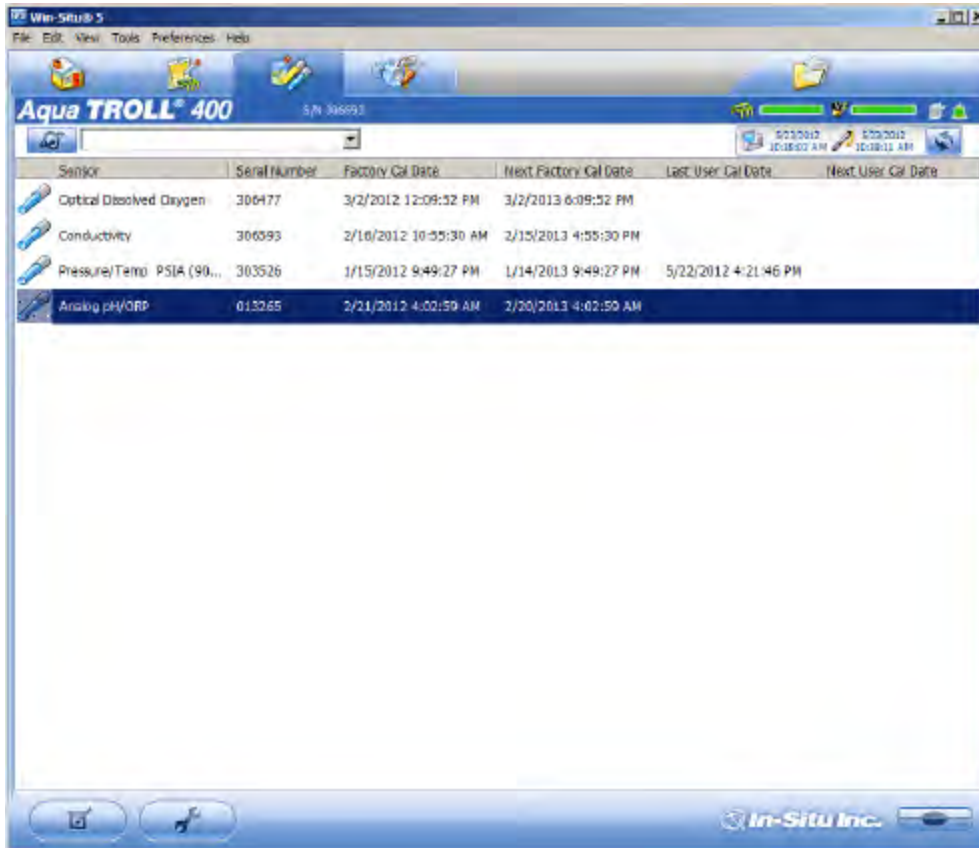
Pressure/Level

The pressure sensor has been factory calibrated with NIST standards to a greater degree of accuracy than can be achieved in nearly any alternative setting. Therefore, user calibration is not necessary for the pressure sensor if it is a gauged sensor. If you encounter significant drift in pressure sensor readings, send the instrument to the factory for service. For best results, use the pressure sensor to measure Surface Elevation or Depth to Water.

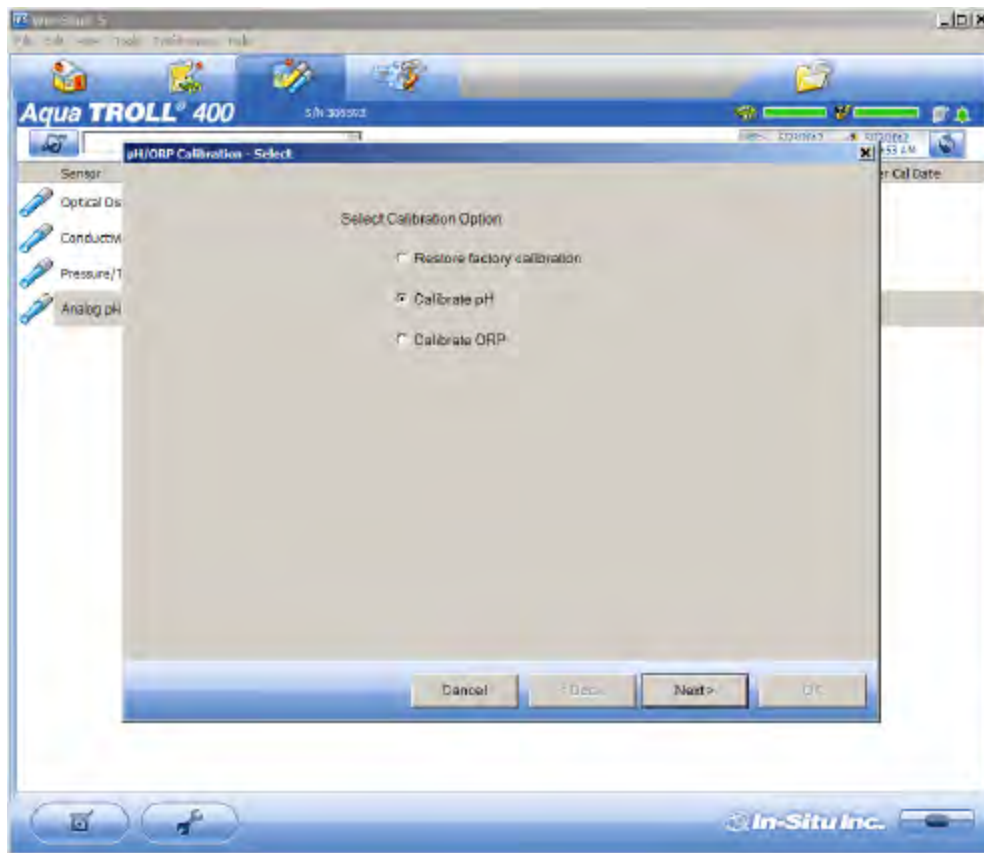
pH/ORP Calibration

We recommend calibrating the pH/ORP sensor after you perform cleaning and maintenance or every two to six weeks.

1. Fill the calibration cup to the fill line with approximately 130 mL of the desired pH or ORP calibration solution.
2. Place the calibration cap on the instrument slightly above the restrictor, and place the instrument in the solution taking care to not force the solution out the top of the calibration cup.
3. In Win-Situ 5 Software, select the **pH/ORP** sensor.



4. Click the **Calibrate** button in the left corner of the screen.



5. Select either **Calibrate pH** or **Calibrate ORP**.
6. Click **Next**.
7. Select a value for the first calibration point. If you intend to perform a 2-point or 3-point calibration, select the appropriate values as indicated on the label of the calibration standard.
8. Click **Next**.
9. Place the instrument into the calibration cup and allow time for the temperature to stabilize.
10. Click **OK**, to start the calibration.
11. When the screen indicates that the calibration has reached stability, click **Accept** to complete the calibration for that calibration point, or click **Cancel** to return to the previous calibration.
12. Follow the Wizard to continue through the remaining calibration points.
13. You can save or print the calibration report.
14. Click **OK** to complete the calibration.
15. Once calibration is complete, remove the instrument from the calibration cup and rinse both thoroughly with clean water.

Controller Requirements and Connections

The instrument can be connected to a controller or logger for communication via the following protocols.

- SDI-12
- RS485 Modbus
- RS232 Modbus (with converter)

Wiring Overview

Refer to the diagrams on the following pages. Trim and insulate unused wires. The shielded wire should be wired to a chassis ground or earth ground. See "Safety" on page 6

Stripped-and-Tinned Cable

Signal	Color
Ground/Return	Black
External Power	Red
No Connection	Brown
RS485 (-)	Green
RS485 (+)	Blue
SDI-12	White

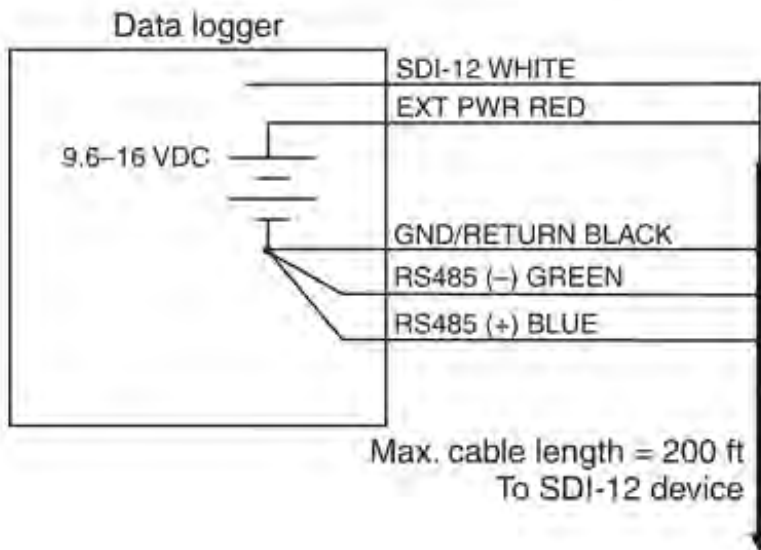
Power Connections

The Aqua TROLL 400 requires an external 8 to 36 VDC power source. The red wire must be connected to the positive terminal of the power source. The black wire must be connected to the negative terminal of the power source, which is often referred to as the system ground or return.

SDI-12 Wiring Diagram

Cable length must not exceed 60.9 m (200 ft).

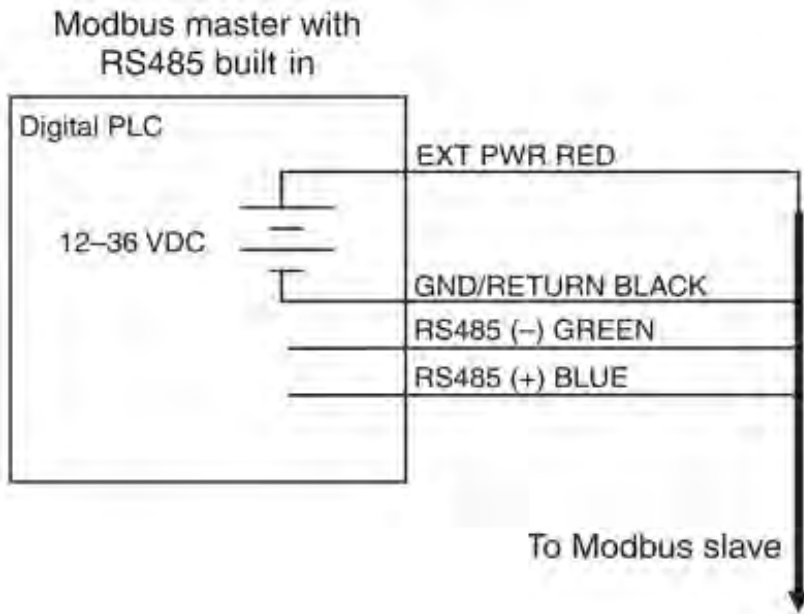
Signal	Color
Ground/Return	Black
External Power (9.6-16 VDC)	Red
SDI-12	White



Modbus Master RS485 Wiring Diagram

Cable length must not exceed 1,219 m (4,000 ft).

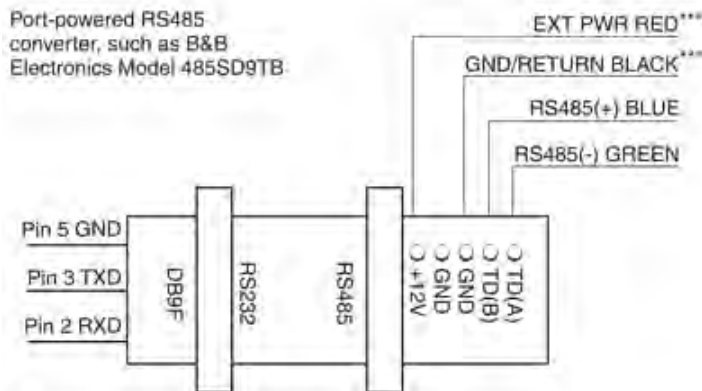
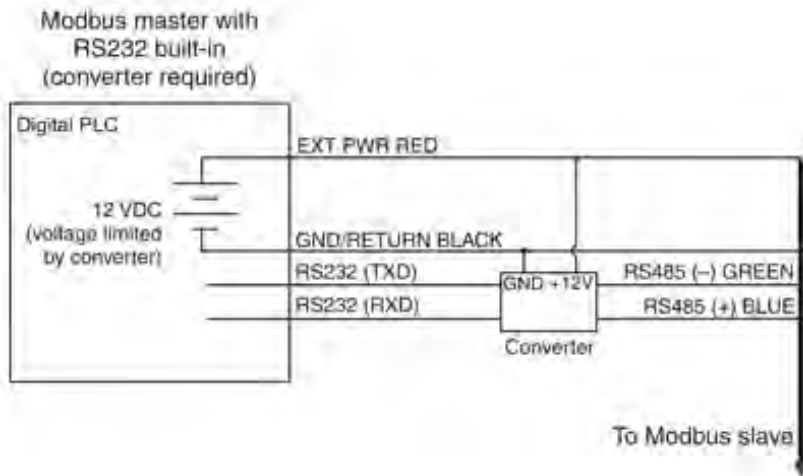
Signal	Color
Ground/Return	Black
External Power (12-36 VDC)	Red
RS485 (-)	Green
RS485 (+)	Blue



Modbus Master RS232 Wiring Diagram (Converter Required)

Cable length between Master and Slave must not exceed 1,219 m (4,000 ft). Cable length between Master and Converter must not exceed 6 m (20 ft).

Signal	Color
Ground/Return	Black
External Power (12-36 VDC, voltage limited by converter)	Red
RS485 (-)	Green
RS485 (+)	Blue

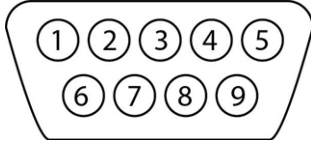


*** Required if port power is not available

RS485 Network Guidelines

The instrument uses RS485 as its main digital communications link. RS485 is often used in an industrial setting as a small device network. There are some installation guidelines to follow when configuring an RS485 network with this instrument. See the Modbus and SDI-12 Reference Guide.

DB-9 Diagram



Pin	Signal Name	
1	Carrier Detector	DCD
2	Receive Data	RXD
3	Transmit Data	TXD
4	Data Terminal Ready	DTR
5	Signal Ground/Common	GND
6	Data Set Ready	DSR
7	Request to Send	RTS
8	Clear to Send	CTS
9	Ring Indicator	RI

Communication Overview

The instrument can be programmed to use either Modbus or SDI-12. Modbus and SDI-12 cannot be used at the same time. The protocol that is in use will block communication of the other.



See the Aqua TROLL 400 Modbus and SDI-12 Reference Guide for registers and programming information.

Prior to connecting the instrument to the controller, you must configure communication settings using Win-Situ software or the VuSitu mobile app and the communication device.

Device ID

Device ID for the AquaTROLL 400 is 18.

Data Quality IDs and the Sensor Health Table

Each sensor on the Aqua TROLL 400 instrument is associated with a corresponding Data Quality ID register. (See the Aqua TROLL 400 Modbus and SDI-12 Guide to set up registers.) When Data Quality ID registers are configured, they will return Data Quality ID numbers that can help you to troubleshoot issues with the system or verify that readings are normal. See the Sensor Health Table.

Sensor Health Table

Abbreviation	Data Quality ID	Text	Description
None	0	None	Normal Data Quality
UC	1	User Cal Expired	Parameter measured without errors using an expired user calibration.
FC	2	Factory Cal Expired	Parameter measured without errors using an expired factory calibration.
ERR	3	Unknown Error	Parameter measured with error, sentinel value supplied.
WU	4	Sensor Warm-up	Sensor is warming up, sentinel value supplied.
DIS	5	Sensor Warning	Parameter measured but does not meet normal quality criteria. The sensor has sustained moderate damage, or the recommended lifespan has been reached.
CAL	6	Sensor Calibrating	Sensor is calibrating, calibration value supplied.
OL	7	Sensor Missing	Sensor communication failed, sentinel value supplied. Make sure the sensor cap is installed and properly seated.

About VuSitu

VuSitu is the mobile user interface and control application for In-Situ water quality instruments. You can use VuSitu on mobile devices with Android operating system 4.4, *Bluetooth* 2.0 and newer. Download the latest version of the app from the Google Play Store at play.google.com.

VuSitu allows you to accomplish the following tasks.

- View live readings that update every 10 seconds
- Change parameters and units
- Set up a data log
- Record data
- Email data in spreadsheet format
- Download data to mobile device
- Transfer data from mobile device to a computer

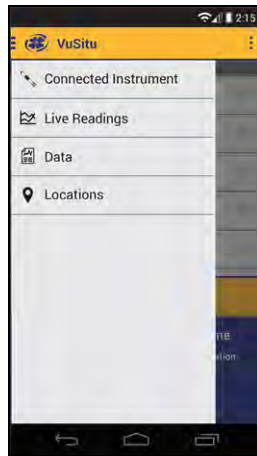
- Organize data by Location
- Calibrate Sensors and View Reports

VuSitu Menu Options

The features available in the VuSitu mobile app vary slightly depending on the instrument to which it is connected. Tap the menu icon in the upper left portion of the screen to view the features included in VuSitu. Tap the menu icon again to close the menu.

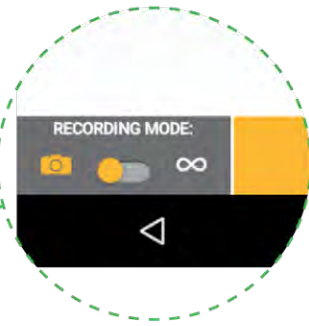
Menu Options when Connected to Instrument

Some features, such as sensor calibration, are not available when you are not connected to an instrument.

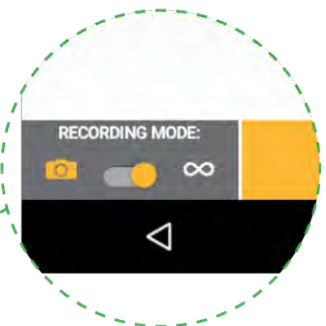


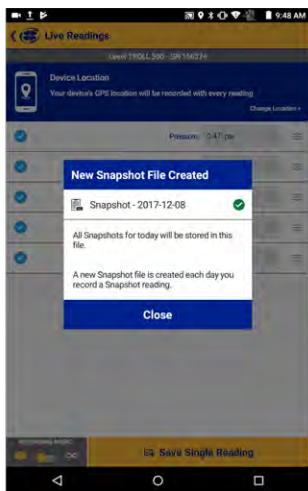
Taking live readings in VuSitu

Snapshot Mode



Live Readings Mode





Take a single reading and save to Snapshot file.

View Snapshot file from Menu > Data Files.

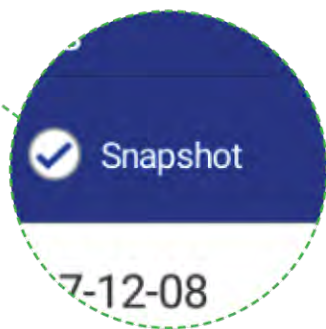
Check Snapshot option.



Take readings at two-second intervals.

View readings from Menu > Data Files.

Check Live option.





About VuSitu Locations


A Location represents the physical location at which an instrument collects data. For example, you can create a Location to represent a lake, gauging station, well, tank, number, or nearby landmark. If you do not set up a Location, your data will be associated with Default Location. The Location name is displayed on the Live Readings screen. You can access Locations through the Main Menu or by tapping the Location displayed in the lower portion of the Live Readings screen.

Create a New Location

1. You can create a new Location with which to associate your data by selecting Locations from the main menu, or by tapping the location shown on the Live Readings screen.
2. Tap Add New Location.
3. Enter a name for the Location.
4. It is optional to add a photo to the Location. Tap the camera icon, take a photo and select the check mark to select the photo.
5. It is optional to add notes to the Location. Tap the Notes field to enter additional information about the Location.
6. It is optional to associate latitude and longitude coordinates with the Location. Tap the map to activate the mapping feature.



7. Tap the GPS icon  in the upper-right portion of the screen to navigate to your current physical location.
8. Tap the Location icon  to select the point on the map as the Location.
9. To manually set a Location, tap and hold to drop a pin on a specific area of the map. This associates latitude and longitude with your Location.

 As an alternative, you can manually enter latitude and longitude values and tap Apply.

10. Tap Save.

Select a Location

Data is associated with the Location that is displayed on the Live readings screen.

After you have created a Location, you must select it in order for your data to be associated with the Location.

1. To Select a Location, tap the current Location displayed on the Live Readings screen. The list of Locations appears.



2. The active Location is marked with a green check mark. If no Location has been selected data will be associated with the Default Location.
3. Tap the desired location in the list.




4. The Live Readings screen appears with the site selected.




Edit or Delete a Location

1. From the Main Menu, tap Locations.
2. Tap the Location you want to edit.



3. Tap the Overflow Menu  in the upper-right portion of the screen.
4. Select Edit Location to make changes, or Archive Location to remove it from the list.



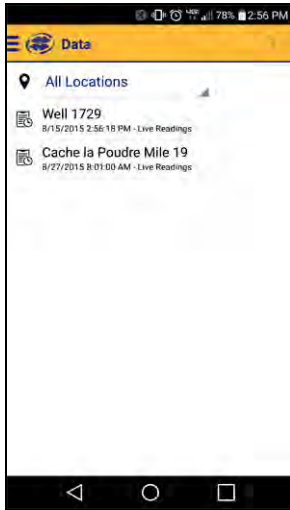
Archived Locations can be restored at any time by tapping the Location, accessing the Overflow Menu  and tapping Restore Location.

About Data

Recorded data from the Live Readings screen is stored in the VuSitu Data section of the app. Data is organized by the Location that was active when the data was recorded. You can view data on the device, delete the data, send the data through email, or save the data to the VuSitu Folder so that it can be downloaded to your computer via USB connection.

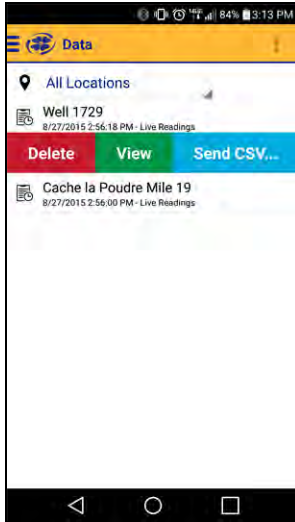
View, Send, Delete Data

1. From the Main Menu, select Data.



It is optional to filter results by Location. Tap the drop-down list and select a Location.

2. Tap the desired data.



- Tap Delete to remove the data from the data list.
- Tap View to see the data on the mobile device.
- Tap Send CSV to send an Excel-compatible file to email or the VuSitu Folder. (When you send the report to the VuSitu Folder, you can later download the data to a computer via USB cable.)

Calibrating the pH Sensor

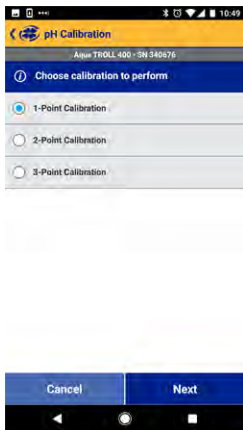
1. Select **Calibrations** from the main menu.



2. Choose the pH option.



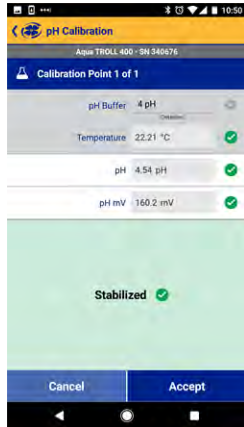
3. Choose the number of calibration points to perform.



4. Pour pH buffer solution in the calibration cup until it reaches the fill line. Then insert the Aqua TROLL 400 into the calibration cup with the restrictor (the metal end) pointing down.



- VuSitu will automatically detect the pH of your buffer solution. Allow several seconds for stabilization. When you see "Stabilized" in the green box at the bottom of the screen, click **Accept**.



You can accept the calibration at the Nominal stage instead of waiting for it to fully stabilize.

Calibrate the Rugged Dissolved Oxygen Sensor (1-Point)

The optical Rugged Dissolved Oxygen sensor is very stable. The factory calibration should produce readings within 3% accuracy. If you require readings with greater accuracy we recommend that you perform a 1-point, 100% water-saturated air calibration as described below.

100% Water-saturated Air Calibration

- From the main menu, select **Calibration & Settings**.
- From the Calibrations menu select **RDO Saturation**.
- For a 1-point calibration, select **100% Saturation**.
- Make sure the vented cap is installed on the calibration cup and a water-saturated sponge is placed in the bottom of the cup.
- After the calibration is stable, select **Accept**.
- The calibration values are applied to the sensor and appear on screen. You can view a full calibration report for all sensors, or select **Done** to return to the Calibration Menu.
- Remove the sponge from the calibration cup.

Calibrate the Rugged Dissolved Oxygen Sensor (2-Point)

We recommend that you perform the 0 % oxygen calibration only if you intend to measure dissolved oxygen at a concentration of less than 4 mg/L.

100% Water-saturated Air Calibration

- From the main menu, select **Calibration & Settings**.
- From the Calibrations menu select **RDO Saturation**.
- For a 2-point calibration, select **100% and 0% Saturation**.

4. Make sure the vented cap is installed on the calibration cup and a water-saturated sponge is placed in the bottom of the cup.
5. After the calibration is stable, a prompt to prepare for the next calibration point appears.

0-point Calibration

1. Remove the sponge from the calibration cup.
2. Fill the calibration cup to the fill line with sodium sulfite. Place the instrument in the calibration cup.
3. Select **Next**.
4. After the calibration is stable, select **Accept**.
5. The calibration values are applied to the sensor and appear on screen. You can view a full calibration report for all sensors, or select **Done** to return to the Calibration Menu.
6. Rinse the sensors and restrictor with DI water.

Calibrating the Rugged Dissolved Oxygen Sensor Using Concentration

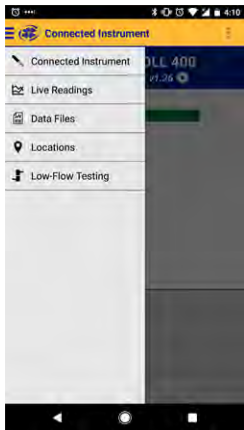
The preferred method of calibrating the RDO sensor is using the 1-point 100% Saturation calibration. However, you can also calibrate the sensor using a concentration method.

1. From the main menu, select **Connected Instrument**.
2. Select **Calibrations**.
3. Tap **RDO Concentration**.
4. Place the instrument in reference solution and tap **Next**.
5. Enter the value of the reference solution.
6. After the calibration is stable, select **Accept**.
7. The calibration values are applied to the sensor and appear on screen. You can view a full calibration report for all sensors, or select **Done** to return to the Calibration Menu.

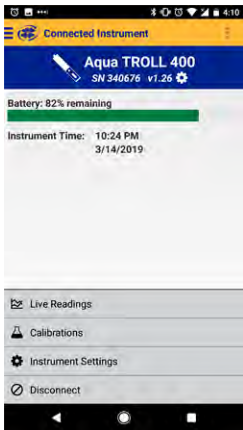
RDO Salinity Setting

The Aqua TROLL 400 includes automatic salinity compensation. This feature is active by default. To change the compensation value, follow these steps:

1. From VuSitu's main menu, select **Connected Instrument**.



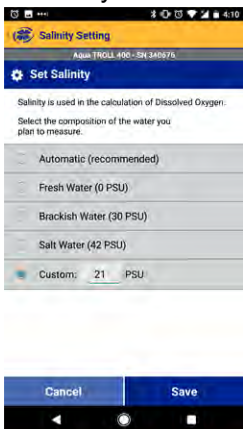
2. Select **Instrument Settings** from the menu at the bottom of the screen.



3. From the Instrument Settings menu, select **Salinity Setting**.



4. Enter your desired salinity compensation setting and press **Save**.



Care and Maintenance

Maintenance Schedule

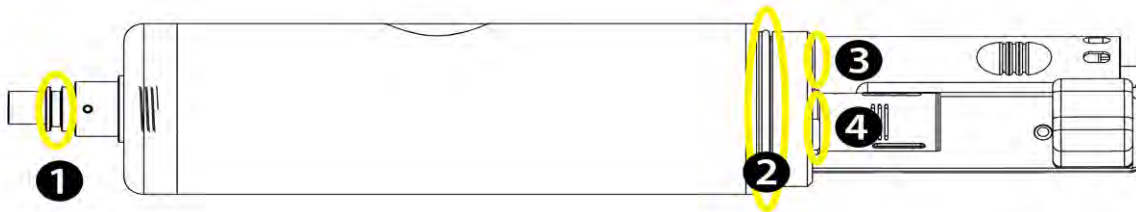
For best results, send the instrument to the manufacturer for factory calibration every 12 to 18 months.

User-Serviceable Parts

The user-serviceable parts on the instrument include the O-rings, the pH/ORP sensor, and the RDO Sensor Cap.

O-rings

The instrument has several O-rings that can be maintained by the user in order to keep moisture from entering the instrument and damaging the electronics. Apply a very thin layer of vacuum grease to new O-rings upon installation. The O-rings are located in the following areas.



1	Connector
2	Instrument housing
3	pH sensor
4	RDO Sensor

RDO Sensor Cap Replacement

The RDO Sensor Cap has a 1-year typical life (15 months of total usage) after the sensor takes its first reading, or 36 months from the date of manufacture. Follow the instructions included in the RDO Sensor Cap Replacement Kit. Replacement caps are available from In-Situ Inc. or your authorized In-Situ distributor.

pH/ORP Sensor Replacement

To replace the pH/ORP sensor or to refill the reference junction, follow the instructions in the pH/ORP Sensor Instruction Sheet that is included with the replacement sensor.

Instrument Storage

To store the probe for a week or less, place the probe in the calibration cup with at least 10 mL of clean water to maintain a moist storage environment.

To store the probe for more than a week, perform the following procedure.

1. Remove the pH/ORP sensor and place the orange pH port plug into the empty pH/ORP port to prevent any humidity from entering the probe.
2. Locate the sensor storage bottle in which the pH sensor was originally shipped.
3. Open the bottle and remove the O-ring.
4. Add enough pH storage solution or pH 4 solution to cover the sensor bulb (about 10 mL).
5. Slide the O-ring onto the sensor, and then slide the bottle cap over the sensor as shown.



6. Place the sensor tip in the buffer and tighten the cap to prevent the glass bulb from drying.

Cleaning the pH/ORP Sensor

Begin with the gentlest cleaning method and continue to the other methods only if necessary. Do not directly touch or wipe the glass bulb.

To clean the pH sensor, gently rinse with cold water. If further cleaning is required, consider the nature of the debris to determine the appropriate method.

Remove Crystalline Deposits

1. Clean the sensor with warm water and mild soap.
2. Soak the sensor in 5% HCl solution for 10 to 30 minutes.
3. If deposits persist, alternate soaking in 5% HCl and 5% NaOH solutions.

Remove Oily or Greasy Residue

1. Clean the sensor with warm water and mild soap.
2. Methanol or isopropyl alcohol may be used for short soaking periods, up to 1 hour.
3. Do not soak the sensor in strong solvents, such as chlorinated solvents, ethers, or ketones, including acetone.

Remove Protein-Like Material or Slimy Film

1. Clean the sensor with warm water and mild soap.
2. Soak the sensor in 0.1M HCl solution for 10 minutes and then rinse with deionized water.



Note: After performing any of these cleaning methods, rinse the sensor with water and then soak overnight in pH 4 buffer.

Cleaning the RDO Sensor

Clean the Sensor Cap

1. Leave the cap on the sensor.
2. Rinse the sensor with clean water from a squirt bottle or spray bottle.
3. Gently wipe with a soft cloth or brush if biofouling is present.

-
- If extensive fouling or mineral build-up is present, soak the RDO Cap end (while the cap is still installed on the sensor) in commercially available household vinegar for 15 minutes, then soak in deionized water for 15 minutes.



Note: Vinegar is safe for all of the sensors on the probe including the RDO Sensor if the sensor cap is on.

- Do not use organic solvents because they will damage the sensing material. Do not remove the cap from the sensor prior to wiping.
- After cleaning the sensor cap, perform a 2-point calibration.

Clean the Optical Window

- Perform this task only once per year when you replace the sensor cap.
- Pull to remove the sensor cap.
- Gently wipe the optical window with the supplied lens wipe.



Important: Do not wet the interior lens area with water or any solution.

Cleaning the Conductivity Sensor

- Before you begin, ensure that the RDO Cap and any removable sensors are in place. Rinse the conductivity sensor under running water to remove loose material.
- Follow Cleaning Procedure 1. If debris is still present, progress to the next cleaning procedure. If the debris is removed, skip to the last step.

Cleaning Procedure 1

Avoid damaging the plastic material of the conductivity cell. Gently scrub the conductivity cell with a soft swab and mild soap such as a dilute solution of dish detergent. The probe is shipped with polyurethane foam swabs for this purpose. You can also achieve good results using a gentle back-and-forth motion with a thin cotton pipe cleaner. If debris is still present, continue to Cleaning Procedure 2. If the sensor is clean, skip to the last step.

Cleaning Procedure 2

Avoid damaging the plastic material of the conductivity cell. Gently scrub the conductivity cell with a foam swab and an aggressive soap such as Alconox cleaner. If debris is still present, continue to Cleaning Procedure 3. If the sensor is clean, skip to the last step.

Cleaning Procedure 3

Soak the sensor with dilute acetic acid (10:1 solution) or commercially available household vinegar to pre-soften calcium deposits. Follow this with Cleaning Procedure 1 or Cleaning Procedure 2, depending on the degree of residual contamination. The probe can soak for any length of time in household vinegar. If debris is still present, continue to Cleaning Procedure 4. If the sensor is clean, skip to the last step.

Cleaning Procedure 4

Typically apply dilute phosphoric acid (< 27 %) or the consumer product LIME-A-WAY with a soft swab to remove iron or calcium deposits that remain after using Process 3. Do not allow the cleaner to be in contact with the sensor for more than 10 minutes. Rinse well with clean water and continue to the last step.

Check the sensor calibration before redeployment. Recalibrate the sensor when necessary.

Declaration of Conformity

Manufacturer: In-Situ, Inc.
221 East Lincoln Avenue
Fort Collins, CO 80524
U.S.A.

Declares that the following product:

Product name: Aqua TROLL Multiparameter Instrument
Model: Aqua TROLL 400
Product Description: Aqua TROLL 400 is a water quality probe equipped with sensors for measuring dissolved oxygen, conductivity, temperature, pH, ORP, and depth (pressure) in natural groundwater, surface water, and process water.

The device meets or exceeds the following international requirements and compliance standards:

- IEC 61000-6-2 Issued:2005/01/01 Ed:2 Electromagnetic Compatibility (EMC) - Part 6-2: Generic Standards - Immunity for Industrial Environments-Second Edition
- IEC 61000-6-4 Issued:2006/07/01 Ed:2 Electromagnetic Compatibility (EMC) - Part 6-4: Generic Standards - Emission Standard for Industrial Environments
- Electrostatic Discharge Immunity Test (IEC 61000-4-2:2008)
- Radiated, Radio-Frequency, Electromagnetic Field Immunity Test (IEC 61000-4-3:2006, A1:2007, A2:2010)
- EFT/Burst Immunity Test (IEC 61000-4-4:2004, A1:2010)
- Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008)
- Power Frequency Magnetic Field Immunity Test (IEC 61000-4-8:2009)
- Radiated Emissions (CISPR 11)



Bruce Barker
Director of New Product Development
In-Situ, Inc.
March 27, 2012



The presence of the Waste Electrical and Electronic Equipment (WEEE) marking on the product indicates that the device is not to be disposed via the municipal waste collection system of any member state of the European Union.

For products under the requirement of WEEE directive, please contact your distributor or local In-Situ Inc. office for the proper decontamination information and take back program, which will facilitate the proper collection, treatment, recovery, recycling, and safe disposal of the device.

APPENDIX D
Interwell Statistics

Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Plant Wansley LF Printed 8/4/2020, 11:22 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>
Barium (mg/L)	GWC-14	0.18	n/a	3/17/2020	0.23	Yes	146	9.589	n/a	0.000...	NP Inter (normality) ...

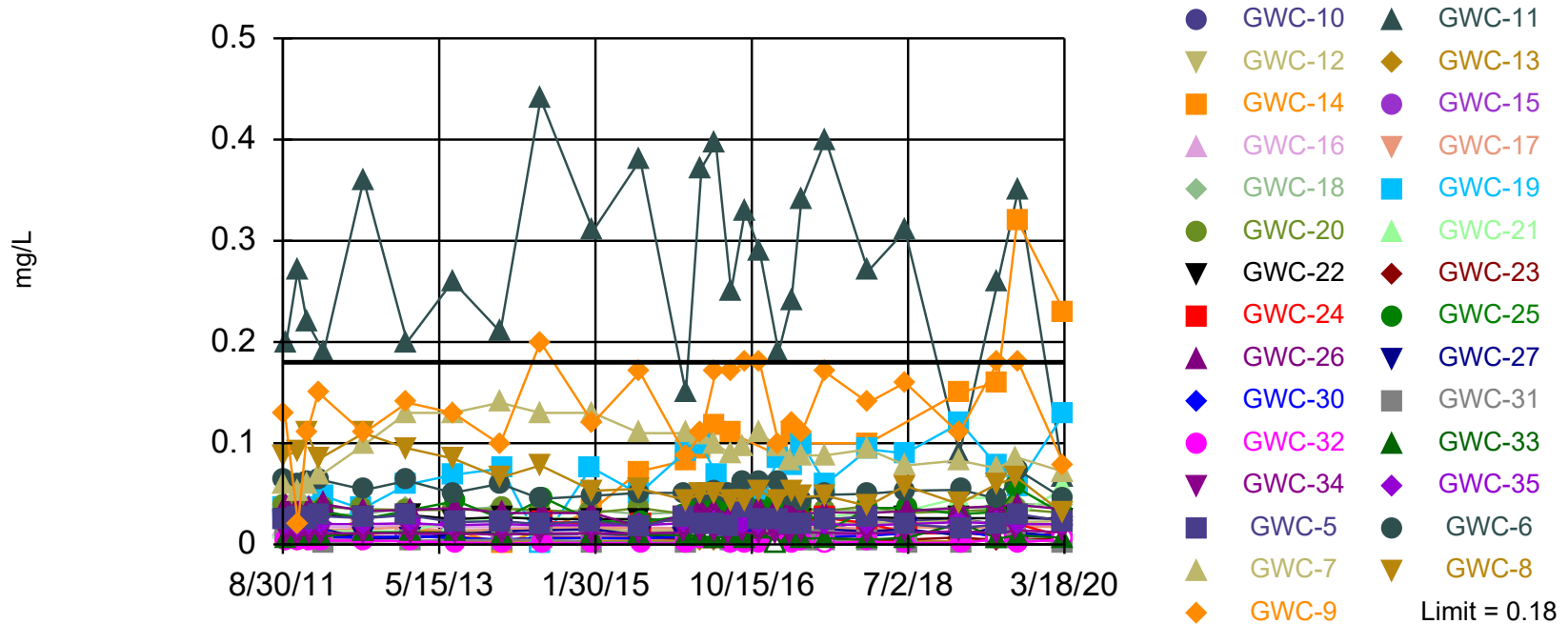
Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Plant Wansley LF Printed 8/4/2020, 11:22 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>
Barium (mg/L)	GWC-10	0.18	n/a	3/17/2020	0.025	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-11	0.18	n/a	3/16/2020	0.066	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-12	0.18	n/a	3/18/2020	0.023	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-13	0.18	n/a	3/12/2020	0.0026J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-14	0.18	n/a	3/17/2020	0.23	Yes	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-15	0.18	n/a	3/16/2020	0.012	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-16	0.18	n/a	3/17/2020	0.019	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-18	0.18	n/a	3/17/2020	0.039	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-19	0.18	n/a	3/18/2020	0.13	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-20	0.18	n/a	3/18/2020	0.031	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-21	0.18	n/a	3/18/2020	0.056	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-22	0.18	n/a	3/18/2020	0.025	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-23	0.18	n/a	3/18/2020	0.0055J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-24	0.18	n/a	3/12/2020	0.0082J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-25	0.18	n/a	3/12/2020	0.03	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-26	0.18	n/a	3/13/2020	0.035	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-17	0.18	n/a	3/17/2020	0.017	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-27	0.18	n/a	3/12/2020	0.008J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-30	0.18	n/a	3/11/2020	0.0081J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-31	0.18	n/a	3/17/2020	0.002J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-32	0.18	n/a	3/18/2020	0.005ND	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-33	0.18	n/a	3/12/2020	0.0067J	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-34	0.18	n/a	3/11/2020	0.012	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-35	0.18	n/a	3/11/2020	0.02	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-5	0.18	n/a	3/16/2020	0.023	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-6	0.18	n/a	3/16/2020	0.045	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-7	0.18	n/a	3/12/2020	0.072	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-8	0.18	n/a	3/12/2020	0.031	No	146	9.589	n/a	0.000...	NP Inter (normality) ...
Barium (mg/L)	GWC-9	0.18	n/a	3/16/2020	0.079	No	146	9.589	n/a	0.000...	NP Inter (normality) ...

Exceeds Limit: GWC-14

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 146 background values. 9.589% NDs. Annual per-constituent alpha = 0.0001095. Individual comparison alpha = 0.000001889 (1 of 3). Comparing 29 points to limit.

Constituent: Barium Analysis Run 8/4/2020 11:20 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-18	GWC-19	GWC-16	GWC-17	GWC-5	GWC-21	GWA-4 (bg)	GWC-6	GWC-20
8/30/2011	0.033	0.037	0.018	0.021					
8/31/2011					0.024	0.015	0.092	0.064	0.038
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	0.028	0.037	0.017	0.014					
10/27/2011					0.026	0.01	0.061		0.034
10/28/2011									
10/29/2011									
10/30/2011								0.06	
10/31/2011									
12/3/2011	0.03	0.037	0.018	0.015					
12/4/2011						0.011			0.033
12/5/2011					0.024			0.061	
12/12/2011									
12/13/2011									
12/14/2011							0.1		
1/19/2012									
1/24/2012									
1/25/2012			0.017	0.014	0.028			0.064	
1/31/2012									
2/1/2012							0.087		
2/7/2012									
2/8/2012		0.048				0.013			0.037
2/9/2012	0.029								
7/11/2012	0.03	0.035	0.017	0.015					0.035
7/16/2012									
7/17/2012						0.013			
7/18/2012					0.026				
7/23/2012							0.13		
7/24/2012								0.054	
1/7/2013									
1/8/2013	0.036	0.059	0.019	0.017				0.063	0.034
1/9/2013					0.029	0.013			
1/22/2013									
1/23/2013							0.11		
1/24/2013									
7/2/2013			0.017						
7/9/2013								0.051	
7/10/2013									
7/16/2013	0.034	0.069		0.013		0.023			0.034
7/17/2013					0.022		0.087		
7/23/2013									
7/24/2013									
1/14/2014	0.037		0.017	0.015					
1/15/2014					0.023		0.081	0.06	
1/21/2014		0.075				0.026			0.035
1/22/2014									
1/23/2014									
6/24/2014	0.032	<0.0013				0.027			0.034

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-18	GWC-19	GWC-16	GWC-17	GWC-5	GWC-21	GWA-4 (bg)	GWC-6	GWC-20
6/25/2014			0.017	0.016	0.02		0.081	0.045	
7/1/2014									
7/8/2014									
1/13/2015	0.034	0.076	0.017		0.023	0.024			0.031
1/14/2015				0.017			0.13		
1/20/2015								0.048	
1/21/2015									
1/22/2015									
7/21/2015							0.11		
7/22/2015			0.017						
7/23/2015	0.03	0.05				0.024			0.036
7/24/2015					0.018			0.051	
7/27/2015									
7/28/2015				0.016					
7/29/2015									
7/30/2015									
7/31/2015									
1/19/2016									
1/20/2016					0.027		0.086	0.051	
1/21/2016									
1/22/2016									
1/25/2016									
1/26/2016						0.026			
1/27/2016	0.032	0.092	0.016	0.016					0.03
3/22/2016									
3/23/2016							0.112		
3/24/2016									
3/28/2016					0.0207			0.0506	
3/29/2016									
3/30/2016	0.0349	0.0986	0.0174	0.0178		0.0293			0.0344
3/31/2016									
5/19/2016							0.11		
5/20/2016									
5/23/2016					0.0191				
5/24/2016								0.052	
5/25/2016			0.0173	0.0169					
5/26/2016	0.0323	0.0687				0.0237			0.0336
7/21/2016					0.018		0.14	0.049	
7/22/2016									
7/25/2016	0.031	0.047							0.03
7/26/2016						0.016			
7/27/2016			0.016	0.016					
9/14/2016							0.15		
9/15/2016					0.037			0.062	
9/16/2016			0.016						
9/19/2016	0.028	0.039		0.016					
9/20/2016						0.014			0.035
11/9/2016									
11/10/2016							0.17		
11/11/2016									
11/14/2016									
11/15/2016					0.024				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-18	GWC-19	GWC-16	GWC-17	GWC-5	GWC-21	GWA-4 (bg)	GWC-6	GWC-20
11/16/2016								0.062	
11/17/2016	0.033	0.046	0.017	0.017		0.012			0.034
11/18/2016									
1/17/2017							0.18		
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017					0.025			0.062	
1/31/2017									
2/1/2017	0.037		0.018	0.017					
2/2/2017		0.085				0.014			0.035
2/3/2017									
3/16/2017							0.15		
3/17/2017									
3/22/2017					0.02			0.048	
3/23/2017									
3/24/2017	0.037	0.079	0.017	0.016					
3/28/2017						0.021			0.031
3/29/2017									
4/27/2017							0.13		
4/28/2017									
5/1/2017									
5/2/2017					0.02			0.043	
5/3/2017	0.034	0.1	0.017	0.016					
5/4/2017						0.02			0.035
7/18/2017									
7/19/2017									
8/1/2017									
8/2/2017							0.15		
8/3/2017					0.025			0.049	
8/4/2017									
8/7/2017	0.035	0.06	0.017	0.017		0.027			0.033
8/8/2017									
10/3/2017									
1/19/2018									
1/22/2018							0.15		
1/23/2018					0.027			0.05	
1/24/2018									
1/25/2018	0.033	0.094	0.016	0.015					
1/26/2018						0.032			0.038
6/19/2018							0.13		
6/20/2018			0.017			0.033			
6/21/2018	0.033	0.09							0.031
6/25/2018					0.02			0.053	
6/26/2018				0.017					
6/27/2018									
1/17/2019							0.12		
1/18/2019									
1/21/2019									
1/22/2019									
1/24/2019				0.016		0.046			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-18	GWC-19	GWC-16	GWC-17	GWC-5	GWC-21	GWA-4 (bg)	GWC-6	GWC-20
1/25/2019			0.019						
1/28/2019	0.037	0.12							0.033
1/30/2019					0.016			0.054	
1/31/2019									
6/24/2019							0.12		
6/25/2019			0.018	0.017		0.046			0.034
6/26/2019		0.077			0.02			0.045	
6/27/2019	0.035								
9/9/2019									
9/10/2019							0.16		
9/11/2019	0.04		0.02	0.018		0.028			0.035
9/12/2019		0.058			0.03			0.074	
9/16/2019									
9/17/2019									
3/10/2020							0.14		
3/11/2020									
3/12/2020									
3/13/2020									
3/16/2020					0.023			0.045	
3/17/2020	0.039		0.019	0.017					
3/18/2020		0.13				0.056			0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-3 (bg)	GWC-9	GWC-8	GWC-7	GWC-13	GWC-11	GWC-14	GWC-12	GWC-32
8/30/2011									
8/31/2011	0.1								
9/7/2011		0.13	0.088	0.06					
9/13/2011					0.0043	0.2	0.01	0.013	
9/15/2011									0.0043
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011							0.019		
10/28/2011					0.0041	0.27		0.0092	
10/29/2011									
10/30/2011		0.02	0.092	0.053					
10/31/2011									0.0035
12/3/2011							0.011		
12/4/2011		0.11			0.0037	0.22		0.0089	
12/5/2011			0.11	0.059					
12/12/2011									
12/13/2011									0.0036
12/14/2011									
1/19/2012		0.15	0.084						
1/24/2012					0.0042		0.015	0.0099	
1/25/2012				0.068					
1/31/2012									
2/1/2012									0.0037
2/7/2012									
2/8/2012									
2/9/2012						0.19			
7/11/2012					0.0038		0.01	0.0099	
7/16/2012									
7/17/2012									0.0038
7/18/2012		0.11	0.11	0.098		0.36			
7/23/2012									
7/24/2012									
1/7/2013			0.095	0.13					
1/8/2013		0.14			0.0034	0.2	0.013	0.012	
1/9/2013									
1/22/2013									
1/23/2013									0.003
1/24/2013									
7/2/2013									
7/9/2013		0.13	0.085	0.13		0.26			
7/10/2013					0.0035		0.014	0.014	
7/16/2013									
7/17/2013									
7/23/2013									
7/24/2013									0.0019
1/14/2014		0.099	0.066	0.14					
1/15/2014						0.21			
1/21/2014					0.0037		<0.0013	0.014	
1/22/2014									
1/23/2014									0.0012 (J)
6/24/2014		0.2	0.078	0.13					

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-3 (bg)	GWC-9	GWC-8	GWC-7	GWC-13	GWC-11	GWC-14	GWC-12	GWC-32
11/16/2016		0.18	0.053	0.11		0.29		0.018	
11/17/2016					0.0027		0.27 (o)		
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017			0.043	0.097					0.003
1/31/2017		0.1			0.0029	0.19		0.022	
2/1/2017							0.088		
2/2/2017									
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017				0.083					
3/23/2017		0.12	0.053		0.0032	0.24	0.11	0.019	
3/24/2017									0.0021 (J)
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		0.11		0.088		0.34			0.0025
5/3/2017			0.047		0.0028		0.1	0.02	
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017	0.03								
8/2/2017									
8/3/2017									<0.0025 (*)
8/4/2017				0.088	0.0032				
8/7/2017		0.17	0.048			0.4	0.23 (o)	0.021	
8/8/2017									
10/3/2017	0.038								
1/19/2018									
1/22/2018									
1/23/2018				0.094					0.0027
1/24/2018		0.14	0.038			0.27		0.022	
1/25/2018					0.0037		0.1		
1/26/2018									
6/19/2018									
6/20/2018	0.029				0.0035	0.31	0.25 (o)		
6/21/2018		0.16	0.058						
6/25/2018				0.078					
6/26/2018								0.021	0.0014 (J)
6/27/2018									
1/17/2019									
1/18/2019	0.033								
1/21/2019				0.083					
1/22/2019		0.11	0.04		0.0029		0.15		
1/24/2019						0.09			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-3 (bg)	GWC-9	GWC-8	GWC-7	GWC-13	GWC-11	GWC-14	GWC-12	GWC-32
1/25/2019								0.024	
1/28/2019									
1/30/2019									0.0017 (J)
1/31/2019									
6/24/2019									
6/25/2019	0.082	0.18	0.06	0.075	0.0069 (J)		0.16		
6/26/2019						0.26		0.02	
6/27/2019									<0.01
9/9/2019									
9/10/2019			0.066	0.086					
9/11/2019	0.094							0.022	
9/12/2019					0.0054 (J)		0.32		0.002 (J)
9/16/2019		0.18				0.35			
9/17/2019									
3/10/2020	0.079								
3/11/2020									
3/12/2020			0.031	0.072	0.0026 (J)				
3/13/2020									
3/16/2020		0.079				0.066			
3/17/2020							0.23		
3/18/2020								0.023	<0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-22	GWC-30	GWC-15	GWA-28 (bg)	GWA-1 (bg)	GWC-35	GWC-34	GWC-23	GWC-33
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	0.025	0.0074							
9/16/2011			0.0061	0.0022	0.013	0.019	0.01	0.011	0.0049
9/17/2011									
10/26/2011									
10/27/2011			0.0068		0.012				
10/28/2011		0.0074		0.0016					
10/29/2011	0.024							0.0075	
10/30/2011									0.0085
10/31/2011						0.018	0.0089		
12/3/2011			0.0067						
12/4/2011									
12/5/2011									
12/12/2011				0.0018		0.02	0.011		
12/13/2011	0.027	0.0075			0.012			0.011	0.0073
12/14/2011									
1/19/2012									
1/24/2012									
1/25/2012	0.029			<0.0013					
1/31/2012					0.011			0.009	
2/1/2012						0.02	0.011		0.0077
2/7/2012									
2/8/2012		0.0075							
2/9/2012			0.0066						
7/11/2012			0.0064						
7/16/2012				0.0011		0.02	0.011		
7/17/2012									0.012
7/18/2012	0.027	0.0068			0.012			0.0076	
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013			0.0075						
1/9/2013									
1/22/2013	0.029					0.021	0.011	0.0078	
1/23/2013									0.012
1/24/2013		0.0083		<0.0013	0.012				
7/2/2013			0.011			0.019			
7/9/2013									
7/10/2013									
7/16/2013	0.025								
7/17/2013					0.0097		0.011		0.012
7/23/2013				<0.0013				0.0075	
7/24/2013		0.006							
1/14/2014									
1/15/2014									
1/21/2014	0.027		0.012		0.0096	0.02			
1/22/2014				0.0013				0.004	
1/23/2014		0.0051					0.0097		0.0099
6/24/2014			0.0094						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-22	GWC-30	GWC-15	GWA-28 (bg)	GWA-1 (bg)	GWC-35	GWC-34	GWC-23	GWC-33
6/25/2014	0.025				0.0094	0.019	0.011		
7/1/2014		0.0061		0.0012 (J)				0.0066	
7/8/2014									
1/13/2015									
1/14/2015	0.025		0.01		0.0095	0.019	0.011		
1/20/2015		0.0061							0.011
1/21/2015				0.00042 (J)					
1/22/2015								0.0067	
7/21/2015				0.00055 (J)	0.0099				
7/22/2015			0.0084						
7/23/2015	0.025								
7/24/2015									
7/27/2015									
7/28/2015						0.019			
7/29/2015							0.011	0.0064	0.0095
7/30/2015		0.0059							
7/31/2015									
1/19/2016		0.0075							
1/20/2016									
1/21/2016					0.011	0.021	0.012	0.0055	
1/22/2016				0.00037 (J)					
1/25/2016									0.009
1/26/2016	0.023								
1/27/2016			0.012						
3/22/2016				<0.01					
3/23/2016		0.00731 (J)			0.00968 (J)				0.00902 (J)
3/24/2016						0.0206	0.0132		
3/28/2016									
3/29/2016								0.0114	
3/30/2016			0.0136						
3/31/2016	0.0249								
5/19/2016									
5/20/2016		0.00703 (J)			0.0096 (J)				
5/23/2016				<0.01		0.0221	0.0119		
5/24/2016									0.00573 (J)
5/25/2016			0.00957 (J)					0.00579 (J)	
5/26/2016	0.0235								
7/21/2016		0.0067			0.0087	0.019	0.011		
7/22/2016									0.01
7/25/2016				0.001 (J)					
7/26/2016	0.021		0.0068						
7/27/2016								0.0043	
9/14/2016									
9/15/2016				0.00092 (J)	0.0086	0.02	0.012		
9/16/2016									0.0061
9/19/2016									
9/20/2016	0.026	0.007	0.007					0.0056	
11/9/2016				0.0016 (J)					
11/10/2016									
11/11/2016					0.0095				
11/14/2016		0.007							
11/15/2016						0.02	0.011		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-22	GWC-30	GWC-15	GWA-28 (bg)	GWA-1 (bg)	GWC-35	GWC-34	GWC-23	GWC-33
1/25/2019								0.0069	
1/28/2019							0.013		
1/30/2019		0.013							0.021
1/31/2019									
6/24/2019					0.0096 (J)				
6/25/2019	0.026		0.0096 (J)	<0.01					
6/26/2019						0.021	0.011	0.0041 (J)	0.0057 (J)
6/27/2019		0.0071 (J)							
9/9/2019					0.012				
9/10/2019	0.027	0.0098 (J)		0.0022 (J)					
9/11/2019							0.014		
9/12/2019						0.02		0.0053 (J)	0.009 (J)
9/16/2019									
9/17/2019			0.0072 (J)						
3/10/2020				0.0018 (J)	0.01				
3/11/2020		0.0081 (J)				0.02	0.012		
3/12/2020									0.0067 (J)
3/13/2020									
3/16/2020			0.012						
3/17/2020									
3/18/2020	0.025							0.0055 (J)	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-2 (bg)	GWC-26	GWA-29 (bg)	GWC-27	GWC-31	GWC-25	GWC-24	GWC-10
6/25/2014								
7/1/2014	0.015				0.0048			
7/8/2014		0.031	0.0013 (D)	0.014		0.046	0.022	
1/13/2015								
1/14/2015								
1/20/2015								
1/21/2015		0.031	0.0015	0.015	0.0022	0.023		
1/22/2015	0.019							
7/21/2015								
7/22/2015	0.014		0.0014					
7/23/2015								
7/24/2015								
7/27/2015								
7/28/2015								
7/29/2015								
7/30/2015				0.0092		0.022		
7/31/2015		0.017					0.02	
1/19/2016			0.00092 (JD)					
1/20/2016	0.016						0.026	
1/21/2016						0.028		
1/22/2016				0.0063				
1/25/2016		0.03			0.002			0.014
1/26/2016								
1/27/2016								
3/22/2016			<0.01					
3/23/2016	0.00773 (J)			0.0107				
3/24/2016		0.0362						
3/28/2016						0.0383		
3/29/2016								
3/30/2016					0.00491 (J)		0.00874 (J)	0.0127
3/31/2016								
5/19/2016			0.00265 (J)					
5/20/2016								
5/23/2016								
5/24/2016	0.00761 (J)			0.00672 (J)				
5/25/2016		0.0348			0.00502 (J)	0.0439	0.00545 (J)	0.014
5/26/2016								
7/21/2016			0.0038					
7/22/2016								
7/25/2016								
7/26/2016	0.0078	0.028		0.0085				
7/27/2016					0.0033	0.037	0.0047	0.03
9/14/2016								
9/15/2016								
9/16/2016	0.017						0.018	0.017
9/19/2016		0.029		0.008		0.041		
9/20/2016								
11/9/2016								
11/10/2016	0.016							
11/11/2016				0.017				
11/14/2016		0.036						
11/15/2016						0.033		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/4/2020 11:21 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-2 (bg)	GWC-26	GWA-29 (bg)	GWC-27	GWC-31	GWC-25	GWC-24	GWC-10
11/16/2016								
11/17/2016								0.028
11/18/2016							0.022	
1/17/2017			0.0011 (J)					
1/19/2017	0.02	0.034						
1/20/2017				0.013				
1/24/2017						0.04		
1/25/2017					0.0051			
1/26/2017								
1/31/2017								
2/1/2017								0.023
2/2/2017								
2/3/2017							0.02	
3/16/2017		0.035		0.0096				
3/17/2017	0.016							
3/22/2017								
3/23/2017					0.0024 (J)	0.032		
3/24/2017								0.012
3/28/2017								
3/29/2017							0.02	
4/27/2017			0.00097 (J)					
4/28/2017	0.016			0.0097				
5/1/2017		0.03						
5/2/2017					0.0026	0.041		
5/3/2017								0.024
5/4/2017							0.023	
7/18/2017			0.0016 (J)					
7/19/2017					0.004			
8/1/2017			0.0011 (J)					
8/2/2017	0.014							
8/3/2017		0.032		0.015		0.012		
8/4/2017					0.0033			
8/7/2017								
8/8/2017							0.026	0.014
10/3/2017								
1/19/2018	0.014		0.00076 (J)	0.013				
1/22/2018		0.031						
1/23/2018					0.0025			
1/24/2018								
1/25/2018						0.036	0.021	0.025
1/26/2018								
6/19/2018	0.015		0.00078 (J)					
6/20/2018								
6/21/2018								0.023
6/25/2018								
6/26/2018								
6/27/2018		0.033		0.015	0.0016 (J)	0.036	0.011	
1/17/2019	0.01							
1/18/2019			0.0007 (J)					
1/21/2019								
1/22/2019								
1/24/2019		0.036		0.009		0.03		

Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Plant Wansley LF Printed 8/4/2020, 11:27 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>
Zinc (mg/L)	GWC-32	0.052	n/a	3/18/2020	0.13	Yes	109	21.1	n/a	0.000...	NP Inter (normality) ...

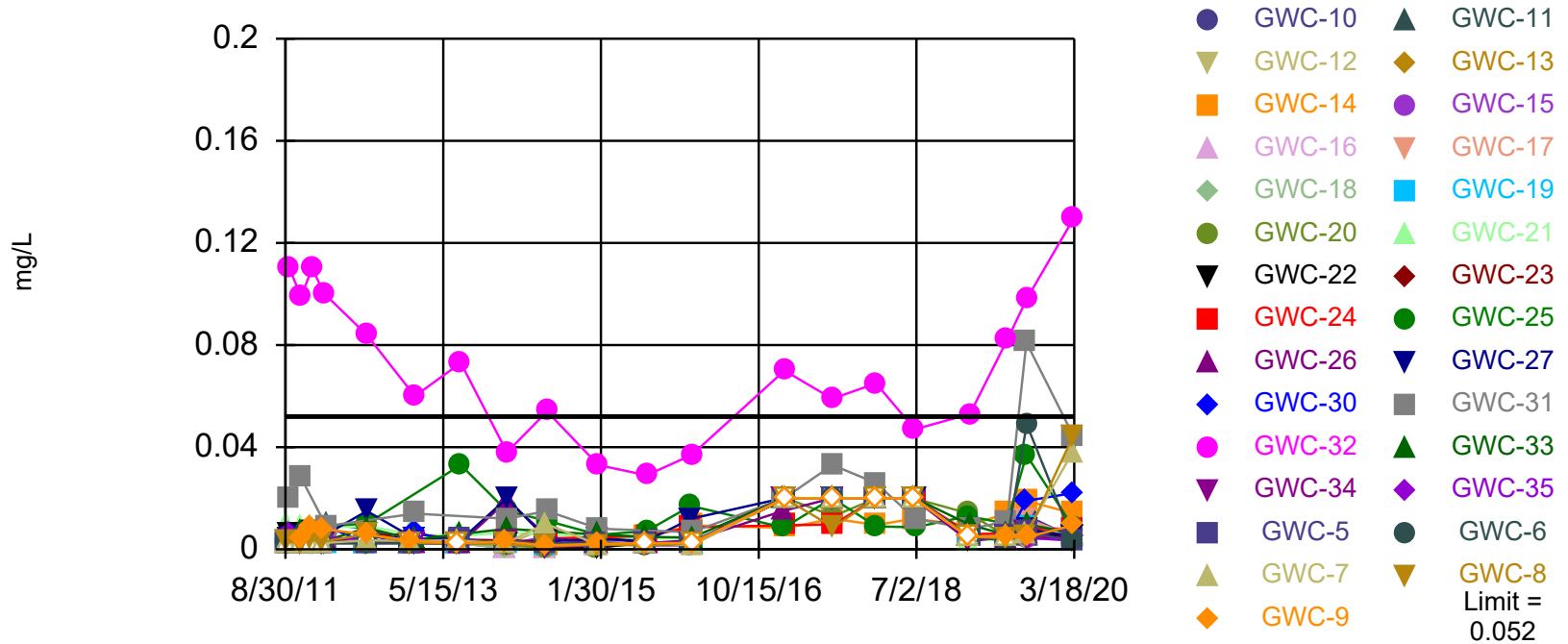
Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Plant Wansley LF Printed 8/4/2020, 11:26 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>
Zinc (mg/L)	GWC-10	0.052	n/a	3/17/2020	0.0044J	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-11	0.052	n/a	3/16/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-12	0.052	n/a	3/18/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-13	0.052	n/a	3/12/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-14	0.052	n/a	3/17/2020	0.014	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-15	0.052	n/a	3/16/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-16	0.052	n/a	3/17/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-17	0.052	n/a	3/17/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-18	0.052	n/a	3/17/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-19	0.052	n/a	3/18/2020	0.0078	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-20	0.052	n/a	3/18/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-21	0.052	n/a	3/18/2020	0.0052	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-22	0.052	n/a	3/18/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-23	0.052	n/a	3/18/2020	0.005ND	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-24	0.052	n/a	3/12/2020	0.008	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-25	0.052	n/a	3/12/2020	0.0089	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-26	0.052	n/a	3/13/2020	0.0087	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-27	0.052	n/a	3/12/2020	0.0051	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-30	0.052	n/a	3/11/2020	0.022	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-31	0.052	n/a	3/17/2020	0.044	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-32	0.052	n/a	3/18/2020	0.13	Yes	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-33	0.052	n/a	3/12/2020	0.0061	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-34	0.052	n/a	3/11/2020	0.0032J	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-35	0.052	n/a	3/11/2020	0.0034J	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-5	0.052	n/a	3/16/2020	0.0033J	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-6	0.052	n/a	3/16/2020	0.0032J	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-7	0.052	n/a	3/12/2020	0.038	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-8	0.052	n/a	3/12/2020	0.044	No	109	21.1	n/a	0.000...	NP Inter (normality) ...
Zinc (mg/L)	GWC-9	0.052	n/a	3/16/2020	0.0094	No	109	21.1	n/a	0.000...	NP Inter (normality) ...

Exceeds Limit: GWC-32

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 21.1% NDs. Annual per-constituent alpha = 0.0002659. Individual comparison alpha = 0.000004585 (1 of 3). Comparing 29 points to limit.

Constituent: Zinc Analysis Run 8/4/2020 11:23 AM

Plant Wansley Client: Southern Company Data: Plant Wansley LF

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM

Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-19	GWC-18	GWC-16	GWC-17	GWC-5	GWC-21	GWC-20	GWA-4 (bg)	GWC-6
8/30/2011	0.0035	<0.0025	0.0081	0.0035					
8/31/2011					<0.0025	0.01	<0.0025	<0.0025	0.0037
9/7/2011									
9/13/2011									
9/15/2011									
9/16/2011									
9/17/2011									
10/26/2011	0.0054	0.0025	0.0035	0.0032					
10/27/2011					0.0025	0.0087	0.0038	<0.0025	
10/28/2011									
10/29/2011									
10/30/2011									0.0043
10/31/2011									
12/3/2011	0.0046	0.0027	0.0033	0.0027					
12/4/2011						0.0093	0.0028		
12/5/2011					<0.0025				0.0047
12/12/2011									
12/13/2011									
12/14/2011								<0.0025	
1/19/2012									
1/24/2012									
1/25/2012			<0.0025	<0.0025	<0.0025				<0.0025
1/31/2012									
2/1/2012								<0.0025	
2/7/2012									
2/8/2012	<0.0025					0.0086	<0.0025		
2/9/2012		<0.0025							
7/11/2012	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025		
7/16/2012									
7/17/2012						0.009			
7/18/2012					<0.0025				
7/23/2012								0.0037	
7/24/2012									<0.0025
1/7/2013									
1/8/2013	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025		<0.0025
1/9/2013					<0.0025	0.006			
1/22/2013									
1/23/2013								<0.0025	
1/24/2013									
7/2/2013			<0.0025						
7/9/2013									<0.0025
7/10/2013									
7/16/2013	<0.0025	<0.0025		<0.0025		0.0052	<0.0025		
7/17/2013					0.0043			<0.0025	
7/23/2013									
7/24/2013									
1/14/2014		0.0005 (J)	0.00074 (J)	0.0021 (J)					
1/15/2014					0.0023 (J)			0.00085 (J)	0.0034
1/21/2014	0.0025					0.0066	0.0018 (J)		
1/22/2014									
1/23/2014									
6/24/2014	0.0014 (J)	0.00099 (J)				0.0059	0.0006 (J)		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-19	GWC-18	GWC-16	GWC-17	GWC-5	GWC-21	GWC-20	GWA-4 (bg)	GWC-6
1/17/2019								<0.005	
1/18/2019									
1/21/2019									
1/22/2019									
1/24/2019				<0.005		0.0034 (J)			
1/25/2019			<0.005						
1/28/2019	0.0049 (J)	0.0033 (J)					0.014		
1/30/2019					<0.005				<0.005
1/31/2019									
6/24/2019								0.0036 (J)	
6/25/2019			<0.005	<0.005		0.0039 (J)	<0.005		
6/26/2019	0.0038 (J)				<0.005				0.0033 (J)
6/27/2019		<0.005							
9/9/2019									
9/10/2019								0.006	
9/11/2019		0.0038 (J)	0.0062	0.012		0.0068	0.0061		
9/12/2019	0.0086				0.0067				0.049
9/16/2019									
9/17/2019									
3/10/2020								0.052	
3/11/2020									
3/12/2020									
3/13/2020									
3/16/2020					0.0033 (J)				0.0032 (J)
3/17/2020		<0.005	<0.005	<0.005					
3/18/2020	0.0078					0.0052	<0.005		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-3 (bg)	GWC-7	GWC-8	GWC-11	GWC-14	GWC-13	GWC-12	GWC-22	GWC-30
8/30/2011									
8/31/2011	0.0037								
9/7/2011		<0.0025	0.0029						
9/13/2011				<0.0025	0.0039	<0.0025	<0.0025		
9/15/2011								0.0058	<0.0025
9/16/2011									
9/17/2011									
10/26/2011									
10/27/2011					0.0046				
10/28/2011				<0.0025		<0.0025	<0.0025		0.0062
10/29/2011								0.0031	
10/30/2011		<0.0025	<0.0025						
10/31/2011									
12/3/2011					0.0028				
12/4/2011				0.0025		0.0028	0.0027		
12/5/2011		<0.0025	0.004						
12/12/2011									
12/13/2011								0.0068	0.003
12/14/2011									
1/19/2012			0.0029						
1/24/2012					0.0033	<0.0025	<0.0025		
1/25/2012		<0.0025						<0.0025	
1/31/2012									
2/1/2012									
2/7/2012									
2/8/2012									0.009
2/9/2012				<0.01					
7/11/2012					<0.0025	<0.0025	<0.0025		
7/16/2012									
7/17/2012									
7/18/2012		0.0035	0.006	0.008				0.0056	<0.0025
7/23/2012									
7/24/2012									
1/7/2013		0.0033	<0.0025						
1/8/2013				<0.0025	<0.0025	<0.0025	<0.0025		
1/9/2013									
1/22/2013								<0.0025	
1/23/2013									
1/24/2013									0.0066
7/2/2013									
7/9/2013		0.0035	<0.0025	<0.0025					
7/10/2013					<0.0025	<0.0025	<0.0025		
7/16/2013								<0.0025	
7/17/2013									
7/23/2013									
7/24/2013									<0.0025
1/14/2014		0.0022 (J)	0.002 (J)						
1/15/2014				0.00052 (J)					
1/21/2014					0.0036	0.0026	0.0019 (J)	<0.0025	
1/22/2014									
1/23/2014									0.0028
6/24/2014		0.01	0.0011 (J)						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-3 (bg)	GWC-7	GWC-8	GWC-11	GWC-14	GWC-13	GWC-12	GWC-22	GWC-30
1/17/2019									
1/18/2019	0.0088								
1/21/2019		<0.005							
1/22/2019			<0.005		0.0094	<0.005			
1/24/2019				<0.005				<0.005	
1/25/2019							<0.005		
1/28/2019									
1/30/2019									<0.005
1/31/2019									
6/24/2019									
6/25/2019	0.014	<0.005	0.0043 (J)		0.014	<0.005		<0.005	
6/26/2019				<0.005			<0.005		
6/27/2019									<0.005
9/9/2019									
9/10/2019		0.0063	0.0051					0.0061	0.019
9/11/2019	0.02						0.0056		
9/12/2019					0.019	0.0085			
9/16/2019				0.005					
9/17/2019									
3/10/2020	0.015								
3/11/2020									0.022
3/12/2020		0.038	0.044			<0.005			
3/13/2020									
3/16/2020				<0.005					
3/17/2020					0.014				
3/18/2020							<0.005	<0.005	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-32	GWC-34	GWC-33	GWC-35	GWA-28 (bg)	GWC-15	GWA-1 (bg)	GWC-23	GWA-29 (bg)
8/30/2011									
8/31/2011									
9/7/2011									
9/13/2011									
9/15/2011	0.11								
9/16/2011		0.0029	0.0033	0.006	0.003	<0.0025	0.0071	0.0058	
9/17/2011									0.026
10/26/2011									
10/27/2011						<0.0025	0.0062		
10/28/2011					0.0073				0.019
10/29/2011								0.0032	
10/30/2011			0.0071						
10/31/2011	0.099	<0.0025		0.0055					
12/3/2011						<0.0025			
12/4/2011									
12/5/2011									
12/12/2011		0.0027		0.006	0.0053				0.02
12/13/2011	0.11		0.0062				0.0065	0.0074	
12/14/2011									
1/19/2012									
1/24/2012									
1/25/2012					0.0046				
1/31/2012							0.0047	0.0031	0.036
2/1/2012	0.1	<0.0025	0.0033	0.0046					
2/7/2012									
2/8/2012									
2/9/2012						<0.0025			
7/11/2012						<0.0025			
7/16/2012		<0.0025		0.0038	0.0034				
7/17/2012	0.084		0.0083						0.015
7/18/2012							0.0044	0.0054	
7/23/2012									
7/24/2012									
1/7/2013									
1/8/2013						<0.0025			
1/9/2013									
1/22/2013		<0.0025		0.0028				0.0061	
1/23/2013	0.06		0.0038						
1/24/2013					0.0049		0.0058		0.048
7/2/2013				0.0025		<0.0025			
7/9/2013									
7/10/2013									
7/16/2013									
7/17/2013		<0.0025	0.0059				0.0028		
7/23/2013					0.0026			0.0038	
7/24/2013	0.073								0.048
1/14/2014									
1/15/2014									
1/21/2014				0.0036		0.0017 (J)	0.0037		
1/22/2014					0.0052			0.0035	0.044
1/23/2014	0.038	0.0034	0.008						
6/24/2014						<0.005			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-31	GWC-26	GWA-2 (bg)	GWC-27	GWC-25	GWC-9	GWC-24	GWC-10
8/30/2011								
8/31/2011								
9/7/2011						0.016 (o)		
9/13/2011								
9/15/2011								
9/16/2011								
9/17/2011	0.02	0.0061	0.0061	0.0044	0.0028			
10/26/2011								
10/27/2011			0.0059					
10/28/2011								
10/29/2011		0.0038		0.0049				
10/30/2011						0.004		
10/31/2011	0.028				0.003			
12/3/2011								
12/4/2011						0.0086		
12/5/2011								
12/12/2011								
12/13/2011								
12/14/2011		0.0033	0.0077	0.0057	0.0029			
1/19/2012						0.0081		
1/24/2012								
1/25/2012				0.0051				
1/31/2012								
2/1/2012								
2/7/2012	0.0091	0.0036	0.0053		0.0092			
2/8/2012								
2/9/2012								
7/11/2012								
7/16/2012								
7/17/2012		0.0028		0.015	0.01			
7/18/2012						0.0058		
7/23/2012			0.0043					
7/24/2012								
1/7/2013								
1/8/2013						0.0034		
1/9/2013								
1/22/2013								
1/23/2013	0.014		0.0054					
1/24/2013		<0.0025		0.0041				
7/2/2013								
7/9/2013						<0.0025		
7/10/2013								
7/16/2013								
7/17/2013								
7/23/2013								
7/24/2013		<0.0025	0.004	0.0036	0.033			
1/14/2014						0.003		
1/15/2014								
1/21/2014								
1/22/2014			0.0056					
1/23/2014	0.012	0.019		0.02	0.015			
6/24/2014						0.0016 (J)		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/4/2020 11:27 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-31	GWC-26	GWA-2 (bg)	GWC-27	GWC-25	GWC-9	GWC-24	GWC-10
6/25/2014								
7/1/2014	0.015		0.004					
7/8/2014		0.0048		0.0032	0.011		0.0043	
1/13/2015								
1/14/2015								
1/20/2015						0.0021 (J)		
1/21/2015	0.0081	0.0022 (J)		0.0039	0.0057			
1/22/2015			0.0051					
7/21/2015								
7/22/2015			0.0033					
7/23/2015								
7/24/2015								
7/27/2015						<0.0025		
7/28/2015								
7/29/2015								
7/30/2015				0.0033	0.0072			
7/31/2015		<0.0025					0.0052	
1/19/2016								
1/20/2016			0.0029				0.0086	
1/21/2016					0.017			
1/22/2016				0.012				
1/25/2016	0.0067	0.0035						0.0027
1/26/2016						<0.0025		
1/27/2016								
1/17/2017								
1/19/2017		0.015 (J)	<0.02					
1/20/2017				<0.02				
1/24/2017					0.0085 (J)			
1/25/2017	<0.02							
1/26/2017								
1/31/2017						<0.02		
2/1/2017								<0.02
2/2/2017								
2/3/2017							0.0094 (J)	
8/1/2017								
8/2/2017			<0.02					
8/3/2017		<0.02		<0.02	<0.02			
8/4/2017	0.033							
8/7/2017						<0.02		
8/8/2017							0.0098 (J)	<0.02
1/19/2018			<0.02	<0.02				
1/22/2018		<0.02						
1/23/2018	0.026							
1/24/2018						<0.02		
1/25/2018					0.009 (J)		<0.02	<0.02
1/26/2018								
6/19/2018			<0.02					
6/20/2018								
6/21/2018						<0.02		<0.02
6/25/2018								
6/26/2018								
6/27/2018	0.012 (J)	<0.02		<0.02	0.0086 (J)		<0.02	

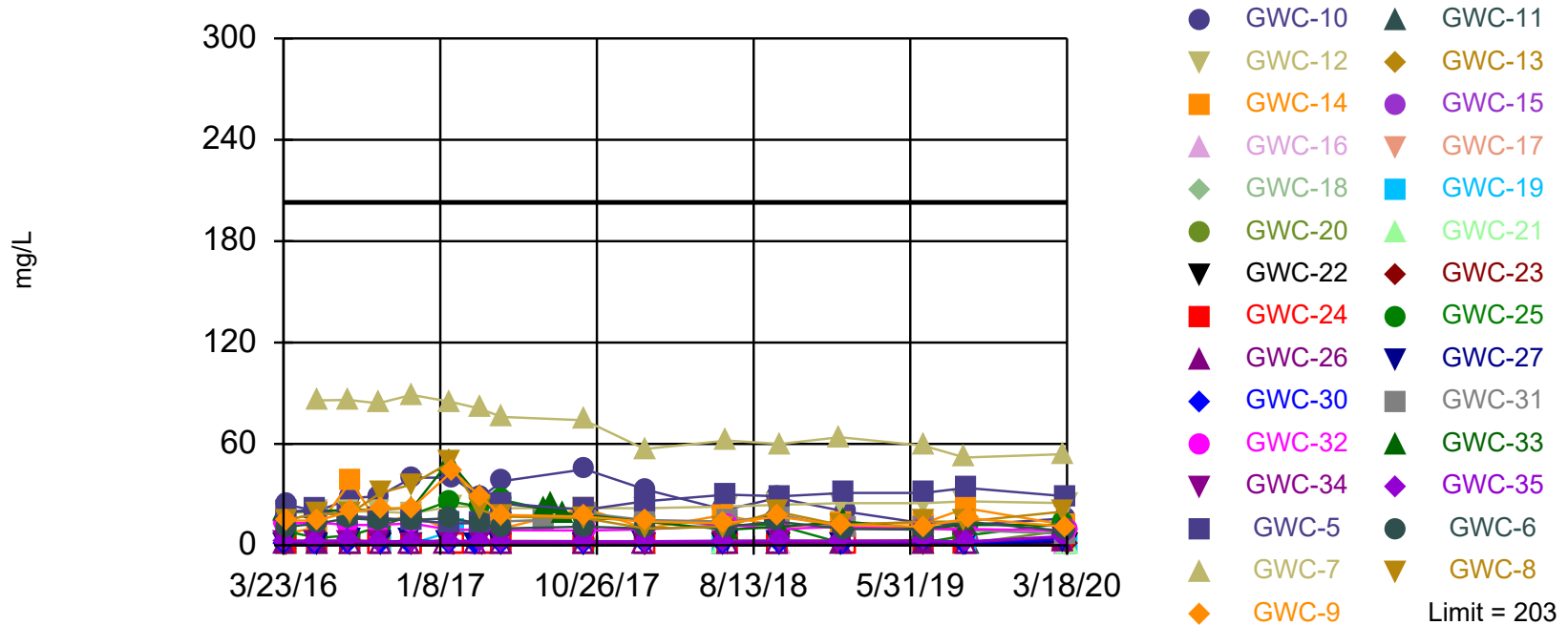
Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Plant Wansley LF Printed 8/4/2020, 11:29 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>
Sulfate (mg/L)	GWC-10	203	n/a	3/17/2020	16	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-11	203	n/a	3/16/2020	0.69	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-12	203	n/a	3/18/2020	25	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-13	203	n/a	3/12/2020	4.3	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-14	203	n/a	3/17/2020	12	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-15	203	n/a	3/16/2020	2.4	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-16	203	n/a	3/17/2020	0.85	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-17	203	n/a	3/17/2020	0.97	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-18	203	n/a	3/17/2020	0.84	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-19	203	n/a	3/18/2020	0.68	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-20	203	n/a	3/18/2020	8.9	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-21	203	n/a	3/18/2020	1ND	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-22	203	n/a	3/18/2020	0.6	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-23	203	n/a	3/18/2020	0.55	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-24	203	n/a	3/12/2020	2.4	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-25	203	n/a	3/12/2020	13	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-26	203	n/a	3/13/2020	2.6	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-27	203	n/a	3/12/2020	2	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-30	203	n/a	3/11/2020	3.6	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-31	203	n/a	3/17/2020	6.8	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-32	203	n/a	3/18/2020	8.7	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-33	203	n/a	3/12/2020	12	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-34	203	n/a	3/11/2020	4.9	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-35	203	n/a	3/11/2020	5.4	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-5	203	n/a	3/16/2020	29	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-6	203	n/a	3/16/2020	8.4	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-7	203	n/a	3/12/2020	54	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-8	203	n/a	3/12/2020	20	No	88	18.18	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GWC-9	203	n/a	3/16/2020	11	No	88	18.18	n/a	0.000...	NP Inter (normality) ...

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 18.18% NDs. Annual per-constituent alpha = 0.0004817. Individual comparison alpha = 0.000008307 (1 of 3). Comparing 29 points to limit.

Constituent: Sulfate Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
3/22/2016	8.4662	1.1423							
3/23/2016			<1	19.6956	1.3729	1.001	12.8473	1.3897	9.0208
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016	10								10
5/20/2016			<1		1.31				
5/23/2016		1.44							
5/24/2016						0.576 (J)	13.5	0.598 (J)	
5/25/2016									
5/26/2016									
7/21/2016	13		<1		1.3				10
7/22/2016							12		
7/25/2016		1.1							
7/26/2016						0.91 (J)		3	
7/27/2016									
9/14/2016									9.7
9/15/2016		0.99 (J)	<1						
9/16/2016						0.87 (J)	12		
9/19/2016								1.6	
9/20/2016					1.3				
11/9/2016		1.1							
11/10/2016						0.79 (J)			8.1
11/11/2016			<1					3	
11/14/2016					1.1				
11/15/2016							13		
11/16/2016									
11/17/2016				22					
11/18/2016									
1/17/2017	7.6	0.85 (J)							15
1/19/2017			<1			0.87 (J)			
1/20/2017								2.2	
1/24/2017					1.3				
1/25/2017				50					
1/26/2017							9.2		
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017		1.2	<1					0.95 (J)	9.1
3/17/2017					1.3	1.8			
3/22/2017									
3/23/2017				28					
3/24/2017							9.2		
3/28/2017									
3/29/2017									
4/27/2017	8	<1							9.6
4/28/2017			<1			1.7		2.1	
5/1/2017				25	1.2				
5/2/2017							9		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
5/3/2017									
5/4/2017									
7/18/2017	6								
7/19/2017				22					
8/1/2017	7.7								
8/4/2017				25					
8/24/2017				19					
10/3/2017	7	1.4				1.9		<1	9.8
10/4/2017			<1		1.2				
10/5/2017				18					
10/6/2017							8.8		
1/19/2018	5.7	1.1	<1			1.8		1.4	
1/22/2018									10
1/23/2018				14			9.4		
1/24/2018					1				
1/25/2018									
1/26/2018									
6/19/2018	7	0.94 (J)	<1			1			10
6/20/2018									
6/21/2018					1				
6/25/2018									
6/26/2018				9.2			12		
6/27/2018								1.7	
9/25/2018	9.1	1.3	<1			0.78 (J)			9.7
9/26/2018									
9/27/2018								2.5	
9/28/2018									
10/1/2018									
10/2/2018				11			9.7		
10/3/2018					1.2				
1/17/2019			0.5 (J)			2.5			9.4
1/18/2019	6.4								
1/21/2019		1.6							
1/22/2019									
1/24/2019								0.39 (J)	
1/25/2019									
1/28/2019									
1/30/2019				14	1.2		11		
1/31/2019									
6/24/2019			<1			0.91 (J)			10
6/25/2019	26	2.2							
6/26/2019				10				3.2	
6/27/2019					1.7		9.9		
9/9/2019			<1						
9/10/2019	9.2	1.3			1.3	0.9 (J)			11
9/11/2019									
9/12/2019				12			9.7	0.82 (J)	
9/16/2019									
9/17/2019									
3/10/2020	8.5	4.2	2.1			3.5			13
3/11/2020					3.6				
3/12/2020				12				2	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
3/13/2020									
3/16/2020									
3/17/2020									
3/18/2020							8.7		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
3/22/2016									
3/23/2016									
3/24/2016	0.4337 (J)	2.7482	1.8782						
3/28/2016				11.0351	19.9405	8.3151			
3/29/2016							0.5302 (J)	2.8316	19.1889
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016		2.76	1.44		21				
5/24/2016				12.8					
5/25/2016	0.3421 (J)						0.3659 (J)	2.62	19.8
5/26/2016						4.31			
7/21/2016		2.8	1.6	16	17				
7/22/2016									20
7/25/2016									
7/26/2016	<1							2.7	
7/27/2016						6.1	<1		
9/14/2016									
9/15/2016		2.4	1.6	15	16			2.6	20
9/16/2016									
9/19/2016	<1					11			
9/20/2016							<1		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	<1								
11/15/2016		2.3	1.3		15	18			
11/16/2016				15					19
11/17/2016								2.2	
11/18/2016							<1		
1/17/2017									
1/19/2017	<1								
1/20/2017									
1/24/2017						26			
1/25/2017			1.5						
1/26/2017		2.7		16	13				
1/31/2017								2.6	23
2/1/2017									
2/2/2017									
2/3/2017							<1		
3/16/2017	<1								
3/17/2017									
3/22/2017		2.4	1.5	13	13				
3/23/2017						23		2.6	23
3/24/2017									
3/28/2017							<1		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	<1		1.4						
5/2/2017		2.5		10	25	27			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
5/3/2017								2.6	22
5/4/2017							<1		
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017		2.5	1.4	11	21				
10/4/2017	<1								22
10/5/2017						16	<1	2.5	
10/6/2017									
1/19/2018									
1/22/2018	<1								
1/23/2018		2.4	1.2	10	26				
1/24/2018									22
1/25/2018						15	<1	2.5	
1/26/2018									
6/19/2018		2.7							
6/20/2018			1.7				<1	2.5	
6/21/2018									
6/25/2018				11	30				
6/26/2018									23
6/27/2018	<1					12			
9/25/2018				14					
9/26/2018						12			
9/27/2018	<1								
9/28/2018									24
10/1/2018		2.8					<1		
10/2/2018			1.4					2.7	
10/3/2018					29				
1/17/2019									
1/18/2019									
1/21/2019		2.7							
1/22/2019								2.8	
1/24/2019	0.57 (J)					1.4			
1/25/2019							0.38 (J)		25
1/28/2019			1.6						
1/30/2019				9.7	31				
1/31/2019									
6/24/2019									
6/25/2019	0.78 (J)					1.6		3	
6/26/2019		2.8	1.9	9.3	31		0.64 (J)		25
6/27/2019									
9/9/2019									
9/10/2019									
9/11/2019			1.6			5.7			26
9/12/2019	<1	2.3		14	34		0.54 (J)	2.2	
9/16/2019									
9/17/2019									
3/10/2020									
3/11/2020		5.4	4.9						
3/12/2020						13		4.3	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
3/13/2020	2.6								
3/16/2020				8.4	29				
3/17/2020									
3/18/2020							0.55		25

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	14.6203	15.2958	<1						
3/30/2016				7.2023	0.8313 (J)	0.5433 (J)	1.0356	15.0114	24.0688
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	14.7	18.5							
5/25/2016			<1	10.5	0.195 (J)	0.4393 (J)		19.1	20.1
5/26/2016							0.979 (J)		
7/21/2016									
7/22/2016									
7/25/2016	20		<1				0.94 (J)		
7/26/2016		19		38					
7/27/2016					0.7 (J)	<1			28
9/14/2016									
9/15/2016				13					
9/16/2016						<1			29
9/19/2016	22	31	<1		<1				
9/20/2016							0.83 (J)		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016	22	36	<1						
11/17/2016				18	0.75 (J)	<1	0.71 (J)		40
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017								13	
1/26/2017		49							
1/31/2017	44		3.7						
2/1/2017				8.2	<1	<1			40
2/2/2017							0.82 (J)		
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017	29	21	1.5	10					
3/24/2017					<1	<1			28
3/28/2017							0.75 (J)		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	18		<1						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
5/3/2017		17		10	<1	<1			38
5/4/2017							1.1		
7/18/2017									
7/19/2017								15	
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017	17								
10/4/2017			<1	22	<1				45
10/5/2017		16				<1			
10/6/2017							0.79 (J)	19	
1/19/2018									
1/22/2018									
1/23/2018								15	
1/24/2018	14	10	<1						
1/25/2018				9.9	<1	<1			33
1/26/2018							<1		
6/19/2018									
6/20/2018			<1	18		<1			
6/21/2018	13	11					1.3		21
6/25/2018									
6/26/2018					<1				
6/27/2018								14	
9/25/2018									
9/26/2018	17	20							
9/27/2018			<1				1.2		28
9/28/2018									
10/1/2018				11		<1			
10/2/2018					<1				
10/3/2018								18	
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019	12	12		13					
1/24/2019			0.77 (J)		0.88 (J)				
1/25/2019						0.66 (J)			
1/28/2019							0.9 (J)		
1/30/2019									
1/31/2019								10	20
6/24/2019									
6/25/2019	11	14		13	1.1	0.84 (J)	0.99 (J)		
6/26/2019			0.47 (J)					9.9	13
6/27/2019									
9/9/2019									
9/10/2019		14							
9/11/2019					0.99 (J)	0.6 (J)	1.1		
9/12/2019				22					
9/16/2019	16		<1						
9/17/2019									12
3/10/2020									
3/11/2020									
3/12/2020		20							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
3/13/2020									
3/16/2020	11		0.69						
3/17/2020				12	0.97	0.85		6.8	16
3/18/2020							8.9		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
 Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-15	GWC-21	GWC-24	GWC-18	GWC-19	GWA-3 (bg)	GWC-22	GWC-7
5/3/2017	1.3			<1	0.88 (J)		<1	
5/4/2017		<1	<1					
7/18/2017								
7/19/2017								
8/1/2017								
8/4/2017								
8/24/2017								
10/3/2017						150		74
10/4/2017	1.4							
10/5/2017			<1	<1	0.81 (J)		<1	
10/6/2017		<1						
1/19/2018								
1/22/2018								
1/23/2018								57
1/24/2018								
1/25/2018	1.4		<1	<1	0.77 (J)		<1	
1/26/2018		<1						
6/19/2018								
6/20/2018	2.1	<1				100	<1	
6/21/2018				<1	<1			
6/25/2018								62
6/26/2018								
6/27/2018			<1					
9/25/2018								
9/26/2018								
9/27/2018		<1			<1			
9/28/2018			<1	<1				
10/1/2018	1.4						<1	
10/2/2018								60
10/3/2018								
1/17/2019								
1/18/2019						34		
1/21/2019								64
1/22/2019	2							
1/24/2019		<1					0.81 (J)	
1/25/2019								
1/28/2019				0.69 (J)	1.2			
1/30/2019								
1/31/2019			<1					
6/24/2019								
6/25/2019	2	<1				<1	0.76 (J)	59
6/26/2019			0.71 (J)		0.88 (J)			
6/27/2019				0.85 (J)				
9/9/2019								
9/10/2019							<1	52
9/11/2019		0.42 (J)	0.59 (J)	0.7 (J)		43		
9/12/2019					0.39 (J)			
9/16/2019								
9/17/2019	1.4							
3/10/2020						18		
3/11/2020								
3/12/2020			2.4					54

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/4/2020 11:28 AM
Plant Wansley Client: Southern Company Data: Plant Wansley LF

	GWC-15	GWC-21	GWC-24	GWC-18	GWC-19	GWA-3 (bg)	GWC-22	GWC-7
3/13/2020								
3/16/2020	2.4							
3/17/2020				0.84				
3/18/2020		<1			0.68		0.6	



ATLANTIC COAST
CONSULTING, INC.

APPENDIX C
STATISTICAL ANALYSIS REPORT

Plant Wansley Landfill – Summary of ASDs

40 CFR 257 Appendix III Constituents

Constituent	Location (Date of ASD)
Boron	GWC-9 (4/2018), GWC-14 (4/2018)
Chloride	GWC-9 (4/2018), GWC-14 (4/2018)
Fluoride	GWC-32 (4/2018), GWC-33 (6/2018)
pH	GWC-10 (12/2018), GWC-18 (12/2018), GWC-26 (8/2020)
Sulfate	GWC-5 (12/2019), GWC-6 (8/2020), GWC-12 (12/2019), GWC-13 (8/2020), GWC-17 (8/2020), GWC-24 (8/2020), GWC-26 (8/2020), GWC-30 (8/2020), GWC-34 (8/2020), GWC-35 (8/2020)
TDS	GWC-23 (12/2018)

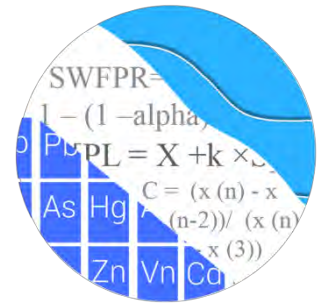
40 CFR 258 Modified Appendix I Constituents

Constituent	Location (Date of ASD)
Barium	GWC-6 (4/2020), GWC-9 (3/2017), GWC-11 (3/2017), GWC-14 (4/2020), GWC-16 (4/2020), GWC-18 (4/2020), GWC-19 (8/2020), GWC-21 (8/2020), GWC-25 (4/2020), GWC-34 (4/2020)
Beryllium	GWC-27 (6/2018)
Chromium	GWC-5 (4/2020), GWC-6 (4/2020), GWC-10 (3/2017), GWC-11 (3/2017), GWC-13 (4/2020), GWC-16 (3/2017), GWC-20 (4/2020), GWC-26 (4/2020), GWC-31 (3/2017), GWC-34 (4/2020), GWC-35 (4/2020)
Cobalt	GWC-8 (3/2017), GWC-9 (3/2017), GWC-14 (3/2017)
Copper	GWC-31 (4/2020)
Nickel	GWC-5 (3/2017), GWC-6 (4/2020), GWC-7 (3/2017), GWC-9 (3/2017), GWC-14 (3/2017), GWC-25 (3/2017), GWC-31 (6/2018)
Vanadium	GWC-10 (3/2017), GWC-22 (3/2017)
Zinc	GWC-6 (4/2020), GWC-7 (4/2020), GWC-8 (8/2020), GWC-9 (8/2020), GWC-14 (4/2020), GWC-25 (4/2020), GWC-30 (8/2020), GWC-31 (8/2020), GWC-32 (8/2020)

GROUNDWATER STATS CONSULTING

August 26, 2020

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Landfill
March 2020 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2020 Semi-Annual Groundwater Monitoring Statistical summary of the analysis of groundwater data for Georgia Power Company's Plant Wansley 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 USEPA Unified Guidance (2009).

Sampling began for the CCR program in 2016, and sampling for 16 parameters in accordance with the Georgia EPD's Solid Waste Permit began in 2011. At least 8 background samples have been collected at each of the groundwater monitoring wells. Semi-annual sampling for Appendix III constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data are screened in this report.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-1, GWA-2, GWA-3, GWA-4, GWA-28, GWA-29
- **Downgradient wells:** GWC-5, GWC-6, GWC-7, GWC-8, GWC-9, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-18, GWC-19, GWC-20, GWC-21, GWC-22, GWC-23, GWC-24, GWC-25, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-33, GWC-34, GWC-35

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 analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The following constituents were evaluated:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD** - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter.

Time series plots for Appendix III 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Due to varying detection limits in background data sets due to improved laboratory practices, a substitution of the most recent reporting limit is used for all nondetects. Note that for calculation of intrawell prediction limits, substitution of the most recent reporting limit is performed separately for each well/parameter pair. In some cases, the reporting limit provided by the laboratory contained varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case. However, in the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided previously to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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. Power curves were based on the following:

Georgia EPD Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-3 resample plan (all parameters)
- # Constituents: 16
- # Downgradient wells: 29

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (pH, sulfate, and TDS)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, and fluoride)
- # Constituents: 7
- # Downgradient wells: 29

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.
- 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.

Background Screening Summary – Georgia EPD – Conducted in August 2019

Outlier and Trend 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. When the most recent values were 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 were 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. Due to changing reporting limits for many constituents, when the nondetects were replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) required flagging as outliers because they were much higher than current reporting limits.

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. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated. A summary of all flagged values is included in 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.

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.

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. The required adjustments to the background data are performed by truncating data at the beginning of the record and the truncated data may be seen in a lighter font on the prediction limit data pages.

The results of the trend analyses showed several statistically significant increasing and decreasing trends; however, the majority of these were relatively low in magnitude when compared to average concentrations and, therefore, required no adjustments.

Exceptions to this include cobalt and nickel in downgradient well GWC-14 which have higher reported measurements than those reported historically for this well and are higher than those observed upgradient of the facility. Therefore, trend tests are currently used in lieu of prediction limits. An alternate source demonstration has been, reportedly, prepared and demonstrates that the concentration levels of these constituents are not a result of practices of the facility. During the next semi-annual statistical analysis, these data will be evaluated for the purpose of resuming the use of prediction limits.

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 statistical differences among the residual means or medians of the upgradient well data for the following constituents: barium, beryllium, cadmium, cobalt, copper, nickel, silver and zinc. No differences were noted for antimony, arsenic, chromium, mercury, selenium, thallium and vanadium. The ANOVA could not test lead as the upgradient well data had no variation.

Because this is a lined landfill with pre-waste data are available that show metals were present naturally in low level detections during the collection of background data, intrawell prediction limits are recommended as the most appropriate statistical analysis at this landfill, except for the cases discussed above. It was also noted that for some constituents the reported concentrations were higher in upgradient wells which would result in limits that would not readily detect subtle changes in concentrations in downgradient wells.

Background Update Summary – Conducted in March 2020

Prior to updating background data, Tukey's outlier test and visual screening were used to evaluate data through September 2019. Tukey's test was used on all wells for intrawell parameters and for only the upgradient wells for interwell parameters. While Tukey's test identified several outliers, only the most extreme values were flagged as such in the database because a number of the values appeared to be representative of natural variation in both upgradient and downgradient wells. Other values, not identified by Tukey's test, were identified visually and flagged in order to obtain statistical limits that will be conservative (lower) from a regulatory perspective.

As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. An updated summary of flagged outliers is presented following this letter.

For constituents requiring intrawell prediction limits (pH, sulfate and TDS), the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through August 2017 to the new compliance samples at each well through September 2019. If the medians of the two groups are not significantly different at the 99% confidence level, background data are typically updated to include the newer compliance data. Statistically significant differences were found for pH in downgradient well GWC-8 and sulfate in downgradient wells GWC-33, GWC-5, GWC-7, and GWC-9.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. However, in all but one of the cases mentioned above, recent concentrations are similar to or lower (similar in the case of pH) than those noted in upgradient and neighboring wells. Therefore, these records were updated to include newer measurements through September 2019. The exception is sulfate at GWC-5 which has a higher median in the more recent data. Concentrations, however, at this well are lower than those reported in one of the upgradient wells. Because this is a lined landfill and there are limited samples available, it is assumed that the more recent concentrations represent present-day groundwater quality conditions rather than resulting from practices at the landfill. Therefore, to reduce the variation in the background data set, the most recent 8 samples through September 2019 were used to construct the intrawell prediction limit at this well. The adjusted background period is shown in the attached date range table. All data will be re-evaluated during the next background update. A list of well/constituent pairs using a truncated portion of their records follows this letter.

Statistical Analysis of Georgia EPD Constituents – March 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 upgradient concentrations 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. 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-3 resample plan, were constructed using all available data, except for the cases mentioned above, within each well with detections through June 2018 (Figure D). Compliance data are compared to these intrawell background limits during each subsequent semi-annual sampling event. As previously discussed, trend tests were used in lieu of prediction limits for cobalt and nickel in downgradient well GWC-14. Additionally, no statistical analyses were included for well/constituent pairs with 100% nondetects.

In the event of an initial exceedance of compliance well data, the 1-of-3 resample plan allows for collection of two additional samples to determine whether the initial exceedance is confirmed. When the 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 any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. Statistical exceedances were noted for barium in downgradient wells GWC-14, GWC-18, GWC-19 and GWC-21; copper and lead in upgradient well GWA-3; and zinc in upgradient well GWA-4, and downgradient wells GWC-7, GWC-8, GWC-9, GWC-14, GWC-30, GWC-31, and GWC-32. Summaries of the Georgia EPD prediction limits follow this report.

When prediction limit exceedances occur in any of the downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether

concentrations are statistically increasing, decreasing, or stable. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. The trend tests for cobalt and nickel in well GWC-14 were included with these trend tests in lieu of prediction limits. Significant increasing trends were noted for barium in upgradient well GWA-4, and downgradient wells GWC-18, GWC-19, and GWC-21; and cobalt, nickel, and zinc in downgradient well GWC-14. Significant decreasing trends were noted for copper and nickel in upgradient well GWA-29. Although the trend for cobalt in upgradient well GWA-2 was noted as a significant trend, the slope of the trend is zero which indicates relatively stable concentrations and a large number of nondetect values. A summary of the trend test results follows this letter (Figure E). Note that in several cases the Sen Slopes are calculated as zero due to a large number of nondetects throughout the record. The (fewer) detected values are often below the reporting limit.

Statistical Analysis of Appendix III Parameters – March 2020 Sampling Event

As mentioned above, 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. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

For sulfate, pH, and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through September 2019, except for the case of sulfate in well GWC-5 (Figure F). Exceedances were noted for pH in upgradient well GWA-29 and downgradient well GWC-26, and sulfate in upgradient wells GWA-1 and GWA-28 and downgradient wells GWC-6, GWC-13, GWC-17, GWC-24, GWC-26, GWC-30, GWC-34, and GWC-35. The majority of sulfate exceedances appear to be a result of natural fluctuations of concentrations as observed in both upgradient and downgradient wells.

For boron, calcium, chloride, and fluoride, interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure G). Exceedances were noted for boron in wells GWC-14 and GWC-15, and chloride in well GWC-14.

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 H). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site. No statistically significant increasing trends were noted for any constituents. Statistically significant decreasing trends were noted pH in upgradient wells GWA-3 and GWA-28. When 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.

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

For Groundwater Stats Consulting,



Andrew T. Collins
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

100% Nondetect Well Constituent Pairs

Date: 5/19/2020 8:50 AM

Plant Wansley Client: Southern Company Data: Wansley Landfill

Antimony (mg/L)

GWA-1, GWA-4, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-19, GWC-20, GWC-21, GWC-34, GWC-35, GWC-7, GWC-8, GWC-9

Arsenic (mg/L)

GWC-10, GWC-15, GWC-27, GWC-30

Beryllium (mg/L)

GWA-4, GWC-10, GWC-13, GWC-15, GWC-20, GWC-5, GWC-7

Boron, total (mg/L)

GWA-2, GWA-28, GWA-3, GWA-4, GWC-13, GWC-16, GWC-17, GWC-18, GWC-20, GWC-21, GWC-23, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-34, GWC-35, GWC-7

Cadmium (mg/L)

GWA-2, GWA-28, GWA-4, GWC-10, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-18, GWC-19, GWC-20, GWC-23, GWC-26, GWC-27, GWC-30, GWC-31, GWC-32, GWC-33, GWC-34, GWC-35, GWC-5, GWC-6, GWC-7, GWC-9

Cobalt (mg/L)

GWA-28, GWC-13, GWC-17, GWC-18, GWC-30

Copper (mg/L)

GWA-1, GWA-4, GWC-18, GWC-19, GWC-21, GWC-30, GWC-32, GWC-7

Lead (mg/L)

GWA-1, GWA-28, GWA-4, GWC-13, GWC-14, GWC-16, GWC-30, GWC-32, GWC-35, GWC-6, GWC-7

Nickel (mg/L)

GWC-30

Selenium (mg/L)

GWA-2, GWA-3, GWC-10, GWC-17, GWC-19, GWC-20, GWC-23, GWC-24, GWC-34, GWC-7

Silver (mg/L)

GWA-1, GWA-2, GWA-28, GWA-3, GWA-4, GWC-13, GWC-15, GWC-18, GWC-19, GWC-20, GWC-30, GWC-34, GWC-35, GWC-7, GWC-8, GWC-9

Thallium (mg/L)

GWA-28, GWA-29, GWA-3, GWC-10, GWC-13, GWC-16, GWC-17, GWC-18, GWC-20, GWC-26, GWC-30, GWC-32, GWC-5

Date Ranges

Date: 5/15/2020 10:22 AM

Plant Wansley Client: Southern Company Data: Wansley Landfill

Sulfate as SO4 (mg/L)

GWC-5 background:5/1/2017-9/17/2019

State Parameters - Intrawell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-14	0.117	n/a	3/17/2020	0.23	Yes	19	n/a	n/a	5.263	n/a	n/a	n/a	0.0006785	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-18	0.0383	n/a	3/17/2020	0.039	Yes	23	0.03275	0.002744	0	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-19	0.1138	n/a	3/18/2020	0.13	Yes	23	0.06187	0.02567	4.348	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-21	0.0348	n/a	3/18/2020	0.056	Yes	23	0.0203	0.007161	0	None	No	No	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.0025	Yes	5	n/a	n/a	80	n/a	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.002	Yes	9	n/a	n/a	100	n/a	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-4	0.014	n/a	3/10/2020	0.052	Yes	16	n/a	n/a	56.25	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-14	0.01302	n/a	3/17/2020	0.014	Yes	16	0.0662	0.02159	18.75	Kaplan-Meiersqrt(x)	n/a	n/a	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-30	0.009	n/a	3/11/2020	0.022	Yes	16	n/a	n/a	62.5	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-31	0.03796	n/a	3/17/2020	0.044	Yes	12	0.01699	0.008457	8.333	None	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-32	0.1273	n/a	3/18/2020	0.13	Yes	16	0.06675	0.02729	0	None	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-7	0.01	n/a	3/12/2020	0.038	Yes	16	n/a	n/a	56.25	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8	0.007153	n/a	3/12/2020	0.044	Yes	16	0.002775	0.001974	43.75	Kaplan-Meier	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-9	0.008549	n/a	3/16/2020	0.0094	Yes	15	0.003756	0.002099	46.67	Kaplan-Meier	No	No	0.0001135	Param Intra 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.0021	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-28	0.0021	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-29	0.002	n/a	3/10/2020	0.002ND	No	21	n/a	n/a	n/a	85.71	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.002ND	No	9	n/a	n/a	n/a	77.78	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-10	0.002	n/a	3/17/2020	0.002ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.0023	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-18	0.0022	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-22	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-23	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-24	0.002	n/a	3/12/2020	0.002ND	No	14	n/a	n/a	n/a	64.29	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-25	0.002	n/a	3/12/2020	0.002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-26	0.002	n/a	3/13/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-27	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-30	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-31	0.0027	n/a	3/17/2020	0.002ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-32	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-33	0.002	n/a	3/12/2020	0.002ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.0024	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-1	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-2	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-28	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-29	0.001	n/a	3/10/2020	0.001ND	No	21	n/a	n/a	n/a	90.48	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.001ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-4	0.0011	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/16/2020	0.0009	No	23	n/a	n/a	n/a	52.17	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.00061	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-13	0.0012	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14	0.001	n/a	3/17/2020	0.00031	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-16	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-19	0.0013	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00058	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-24	0.001	n/a	3/12/2020	0.001ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.001ND	No	22	n/a	n/a	n/a	90.91	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-31	0.0012	n/a	3/17/2020	0.001ND	No	18	n/a	n/a	n/a	83.33	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-32	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-33	0.0013	n/a	3/12/2020	0.001ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-34	0.0012	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-35	0.001	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.0014	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.001	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7	0.0012	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-8	0.0013	n/a	3/12/2020	0.00049	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0013	n/a	3/16/2020	0.00065	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-1	0.01292	n/a	3/10/2020	0.01	No	23	0.01025	0.001319	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-2	0.02156	n/a	3/10/2020	0.01	No	23	0.01435	0.003559	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-28	0.005	n/a	3/10/2020	0.0018	No	23	n/a	n/a	n/a	39.13	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-29	0.004768	n/a	3/10/2020	0.005ND	No	21	-6.46	0.5402	9.524	None	None	ln(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-3	0.1	n/a	3/10/2020	0.079	No	9	n/a	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-6	0.0025	n/a	3/16/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00061	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.001	n/a	3/16/2020	0.00041	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-29	0.0025	n/a	3/10/2020	0.0025ND	No	21	n/a	n/a	n/a	95.24	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-3	0.0025	n/a	3/10/2020	0.0025ND	No	9	n/a	n/a	n/a	66.67	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-11	0.0022	n/a	3/16/2020	0.00033	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14	0.0025	n/a	3/17/2020	0.00036	No	23	n/a	n/a	n/a	73.91	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-21	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-22	0.0025	n/a	3/18/2020	0.00062	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-24	0.0025	n/a	3/12/2020	0.0025ND	No	14	n/a	n/a	n/a	85.71	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-25	0.0025	n/a	3/12/2020	0.0025ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00032	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-1	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-2	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-28	0.0044	n/a	3/10/2020	0.002ND	No	22	n/a	n/a	n/a	90.91	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-29	0.002	n/a	3/10/2020	0.002ND	No	20	n/a	n/a	n/a	90	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.002ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-4	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.0029	n/a	3/17/2020	0.002ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-11	0.01	n/a	3/16/2020	0.0019	No	23	n/a	n/a	n/a	17.39	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-14	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-15	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-16	0.005	n/a	3/17/2020	0.0024	No	23	n/a	n/a	n/a	8.696	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-17	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-18	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-19	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-20	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-21	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-22	0.0027	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	60.87	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-23	0.00226	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-24	0.002	n/a	3/12/2020	0.002ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-25	0.0043	n/a	3/12/2020	0.002ND	No	20	n/a	n/a	n/a	75	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-26	0.002	n/a	3/13/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-27	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-30	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-31	0.008183	n/a	3/17/2020	0.002ND	No	18	-5.938	0.5266	16.67	Kaplan-Meier	ln(x)	0.0001135	Param Intra 1 of 3	
Chromium (mg/L)	GWC-32	0.002	n/a	3/18/2020	0.002ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-33	0.0034	n/a	3/12/2020	0.0018	No	22	n/a	n/a	n/a	77.27	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-34	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-35	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-5	0.0025	n/a	3/16/2020	0.0017	No	22	n/a	n/a	n/a	86.36	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-7	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-9	0.0029	n/a	3/16/2020	0.0015	No	23	n/a	n/a	n/a	47.83	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.00017	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-2	0.0025	n/a	3/10/2020	0.00017	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-29	0.0025	n/a	3/10/2020	0.0025ND	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3	0.0028	n/a	3/10/2020	0.00081	No	9	n/a	n/a	n/a	66.67	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-4	0.01261	n/a	3/10/2020	0.0035	No	23	0.07262	0.01959	8.696	None	sqrt(x)	0.0001135	Param Intra 1 of 3	
Cobalt (mg/L)	GWC-10	0.0143	n/a	3/17/2020	0.0038	No	12	0.006177	0.003274	0	None	No	0.0001135	Param Intra 1 of 3	
Cobalt (mg/L)	GWC-11	0.01525	n/a	3/16/2020	0.0014	No	23	0.008102	0.00353	0	None	No	0.0001135	Param Intra 1 of 3	

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-15	0.001	n/a	3/16/2020	0.00014	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-19	0.0013	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00067	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.00022	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-24	0.0013	n/a	3/12/2020	0.00013	No	14	n/a	n/a	n/a	100	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.00018	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.00013	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-31	0.0013	n/a	3/17/2020	0.00051	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-33	0.001	n/a	3/12/2020	0.00015	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-34	0.001	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-5	0.001	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00028	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-9	0.001	n/a	3/16/2020	0.00025	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-1	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-2	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-28	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-29	0.0002	n/a	3/10/2020	0.0002ND	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-3	0.0002	n/a	3/10/2020	0.0002ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-4	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-10	0.0002	n/a	3/17/2020	0.0002ND	No	12	n/a	n/a	n/a	83.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-11	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-12	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-13	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-14	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-16	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-17	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-18	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-19	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-20	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-21	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-22	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-23	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-24	0.0002	n/a	3/12/2020	0.0002ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-25	0.0002	n/a	3/12/2020	0.0002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-26	0.0002	n/a	3/13/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-27	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-30	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-31	0.0002	n/a	3/17/2020	0.0002ND	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-32	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-33	0.0002	n/a	3/12/2020	0.0002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-34	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-35	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-5	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-6	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-7	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-8	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-9	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.00067	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-2	0.0028	n/a	3/10/2020	0.0012	No	16	n/a	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWA-28	0.0025	n/a	3/10/2020	0.00069	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-29	0.005537	n/a	3/10/2020	0.0012	No	16	0.003044	0.001124	18.75	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWA-3	0.0056	n/a	3/10/2020	0.0019	No	5	n/a	n/a	60	n/a	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-4	0.007	n/a	3/10/2020	0.0019	No	15	n/a	n/a	80	n/a	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-10	0.01272	n/a	3/17/2020	0.0013	No	5	0.00348	0.001413	0	None	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.0004	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-13	0.001	n/a	3/12/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15	0.001	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-16	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-19	0.0025	n/a	3/18/2020	0.0011	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-21	0.0025	n/a	3/18/2020	0.0004	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00042	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.00079	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-24	0.004597	n/a	3/12/2020	0.0025	No	7	0.0025	0.0005657	14.29	None	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-25	0.01984	n/a	3/12/2020	0.0054	No	15	0.07554	0.0286	33.33	Kaplan-Meier	sqrt(x)	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-26	0.0025	n/a	3/13/2020	0.00097	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-31	0.01227	n/a	3/17/2020	0.0029	No	12	-5.856	0.5866	25	Kaplan-Meier	ln(x)	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-32	0.0025	n/a	3/18/2020	0.0011	No	16	n/a	n/a	87.5	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-33	0.0025	n/a	3/12/2020	0.0012	No	15	n/a	n/a	93.33	n/a	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-34	0.0025	n/a	3/11/2020	0.0005	No	15	n/a	n/a	93.33	n/a	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-35	0.004883	n/a	3/11/2020	0.001	No	16	0.002608	0.001025	25	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-5	0.009764	n/a	3/16/2020	0.0049	No	16	0.00003998	0.000249525		Kaplan-Meier	x^2	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.00721	n/a	3/16/2020	0.0043	No	16	0.004412	0.001261	6.25	None	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-7	0.02327	n/a	3/12/2020	0.0074	No	16	0.009385	0.006258	25	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-8	0.011	n/a	3/12/2020	0.0019	No	16	n/a	n/a	37.5	n/a	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-9	0.01884	n/a	3/16/2020	0.0091	No	14	0.01016	0.003691	7.143	None	No	n/a	0.0001135	Param Intra 1 of 3
Selenium (mg/L)	GWA-1	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-28	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-29	0.005	n/a	3/10/2020	0.005ND	No	21	n/a	n/a	85.71	n/a	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-4	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-11	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a	82.61	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-12	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-13	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-14	0.0071	n/a	3/17/2020	0.0023	No	24	n/a	n/a	75	n/a	n/a	n/a	0.0003562	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-15	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-16	0.005	n/a	3/17/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-18	0.005	n/a	3/17/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-21	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-22	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-25	0.005	n/a	3/12/2020	0.005ND	No	22	n/a	n/a	95.45	n/a	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-26	0.005	n/a	3/13/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-27	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-30	0.005	n/a	3/11/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-31	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a	72.22	n/a	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-32	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-33	0.005	n/a	3/12/2020	0.005ND	No	22	n/a	n/a	81.82	n/a	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-35	0.005	n/a	3/11/2020	0.005ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-6	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a	82.61	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWC-8	0.007153	n/a	3/12/2020	0.044	Yes	16	0.002775	0.001974	43.75	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-9	0.008549	n/a	3/16/2020	0.0094	Yes	15	0.003756	0.002099	46.67	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3

State Parameters Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-4 (bg)	0.007967	164	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	0.02209	189	98	Yes	23	4.348	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-18	0.0007492	146	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-19	0.007778	162	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.002917	181	124	Yes	27	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	0	-128	-124	Yes	27	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-14	0.01562	137	124	Yes	27	11.11	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-29 (bg)	-0.001039	-98	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002747	-99	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWC-14	0.001843	148	87	Yes	21	33.33	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-14	0.001331	114	81	Yes	20	15	n/a	n/a	0.01	NP

State Parameters Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.0002359	-82	-124	No	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2 (bg)	0	-16	-124	No	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-28 (bg)	0	4	124	No	27	37.04	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-29 (bg)	-0.00004576	-30	-111	No	25	16	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3 (bg)	0.002094	14	43	No	13	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.007967	164	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	0.02209	189	98	Yes	23	4.348	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-18	0.0007492	146	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-19	0.007778	162	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.002917	181	124	Yes	27	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1 (bg)	0	-110	-124	No	27	77.78	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	0	-128	-124	Yes	27	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-28 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-29 (bg)	0	-43	-111	No	25	92	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3 (bg)	-0.00006222	-25	-43	No	13	46.15	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	0.00032	101	124	No	27	7.407	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-14	0.01562	137	124	Yes	27	11.11	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-2 (bg)	0	-27	-81	No	20	80	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-28 (bg)	0	5	81	No	20	95	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-29 (bg)	-0.001039	-98	-81	Yes	20	15	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-3 (bg)	0	8	25	No	9	55.56	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-4 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-2 (bg)	0	-24	-124	No	27	96.3	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-28 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-29 (bg)	0	-43	-111	No	25	92	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3 (bg)	0	-5	-43	No	13	76.92	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-4 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-1 (bg)	0	-64	-81	No	20	80	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-2 (bg)	-0.0000376	-67	-81	No	20	55	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-28 (bg)	0	-61	-81	No	20	75	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002747	-99	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-3 (bg)	-0.0002631	-19	-25	No	9	33.33	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-4 (bg)	0	-67	-74	No	19	63.16	n/a	n/a	0.01	NP
Nickel (mg/L)	GWC-14	0.001843	148	87	Yes	21	33.33	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1 (bg)	-0.0000146	-4	-81	No	20	10	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	-0.0001346	-57	-81	No	20	25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-28 (bg)	0.0008004	69	81	No	20	20	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-29 (bg)	0	-2	-81	No	20	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3 (bg)	2.9e-10	2	25	No	9	22.22	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	0	35	81	No	20	50	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-14	0.001331	114	81	Yes	20	15	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-30	0	24	81	No	20	60	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-31	0.000782	12	58	No	16	6.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-32	-0.003265	-33	-81	No	20	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-7	0	38	81	No	20	55	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-8	0.0001408	47	81	No	20	40	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-9	0	3	74	No	19	42.11	n/a	n/a	0.01	NP

Appendix III - Intrawell Prediction Limits Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:31 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	GWA-29	6.445	5.77	3/10/2020	5.75	Yes	14	n/a	n/a	0	n/a	n/a	n/a	0.01722	NP Intra (normality) 1 of 2
pH, Field (S.U.)	GWC-26	6.038	5.58	3/13/2020	5.52	Yes	15	n/a	n/a	0	n/a	n/a	n/a	0.01507	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	GWA-1	1	n/a	3/10/2020	1.7	Yes	15	n/a	n/a	93.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWA-28	2.189	n/a	3/10/2020	3	Yes	15	1.244	0.3334	6.667	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-13	3.195	n/a	3/12/2020	4.5	Yes	15	2.597	0.2111	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-17	1.1	n/a	3/17/2020	1.2	Yes	15	n/a	n/a	53.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-24	1.019	n/a	3/12/2020	2.3	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-26	1	n/a	3/13/2020	1.8	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-30	1.726	n/a	3/11/2020	3.3	Yes	15	1.252	0.1671	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-34	2.085	n/a	3/11/2020	3.8	Yes	15	1.535	0.1943	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-35	3.131	n/a	3/11/2020	4.7	Yes	15	2.587	0.1918	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-6	19.26	n/a	3/16/2020	30	Yes	15	12.52	2.376	0	None	No	No	0.0002595	Param Intra 1 of 2

Appendix III - Interwell Prediction Limits Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	LimDate	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron, total (mg/L)	GWC-14	0.08	n/a	3/17/2020	1.2	Yes	89	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-15	0.08	n/a	3/16/2020	0.14	Yes	89	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Chloride, Total (mg/L)	GWC-14	43	n/a	3/17/2020	120	Yes	88	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium, total (mg/L)	GWC-7	72	n/a	3/12/2020	47	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-8	72	n/a	3/12/2020	19	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-9	72	n/a	3/16/2020	8.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-10	43	n/a	3/17/2020	3.7	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-11	43	n/a	3/16/2020	0.81	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-12	43	n/a	3/18/2020	22	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-13	43	n/a	3/12/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-14	43	n/a	3/17/2020	120	Yes	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-15	43	n/a	3/16/2020	9.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-16	43	n/a	3/17/2020	1.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-17	43	n/a	3/17/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-18	43	n/a	3/17/2020	1.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-19	43	n/a	3/18/2020	2.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-20	43	n/a	3/18/2020	2.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-21	43	n/a	3/18/2020	3.8	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-22	43	n/a	3/18/2020	1.8	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-23	43	n/a	3/18/2020	2.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-24	43	n/a	3/12/2020	4.2	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-25	43	n/a	3/12/2020	6.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-26	43	n/a	3/13/2020	3.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-27	43	n/a	3/12/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-30	43	n/a	3/11/2020	1.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-31	43	n/a	3/17/2020	1.6	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-32	43	n/a	3/18/2020	1.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-33	43	n/a	3/12/2020	2.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-34	43	n/a	3/11/2020	1.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-35	43	n/a	3/11/2020	3.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-5	43	n/a	3/16/2020	9.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-6	43	n/a	3/16/2020	9.7	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-7	43	n/a	3/12/2020	13	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-8	43	n/a	3/12/2020	2.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-9	43	n/a	3/16/2020	2.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-10	3.2	n/a	3/17/2020	0.74	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-11	3.2	n/a	3/16/2020	0.051	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-12	3.2	n/a	3/18/2020	0.058	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-13	3.2	n/a	3/12/2020	0.044	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-14	3.2	n/a	3/17/2020	0.046	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-15	3.2	n/a	3/16/2020	0.07	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-16	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-17	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-18	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-19	3.2	n/a	3/18/2020	0.068	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-20	3.2	n/a	3/18/2020	0.048	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-21	3.2	n/a	3/18/2020	0.034	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-22	3.2	n/a	3/18/2020	0.056	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-23	3.2	n/a	3/18/2020	0.034	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-24	3.2	n/a	3/12/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-25	3.2	n/a	3/12/2020	0.032	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-26	3.2	n/a	3/13/2020	0.026	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-27	3.2	n/a	3/12/2020	0.044	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-30	3.2	n/a	3/11/2020	0.066	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-31	3.2	n/a	3/17/2020	1.2	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-32	3.2	n/a	3/18/2020	2.8	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-33	3.2	n/a	3/12/2020	2.1	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-34	3.2	n/a	3/11/2020	0.18	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	GWC-35	3.2	n/a	3/11/2020	0.035	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-5	3.2	n/a	3/16/2020	0.076	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-6	3.2	n/a	3/16/2020	0.073	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-7	3.2	n/a	3/12/2020	0.16	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-8	3.2	n/a	3/12/2020	0.043	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-9	3.2	n/a	3/16/2020	0.08	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:39 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>
pH, Field (S.U.)	GWA-28 (bg)	-0.107	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-3 (bg)	-0.2964	-34	-25	Yes	9	0	n/a	n/a	0.01	NP

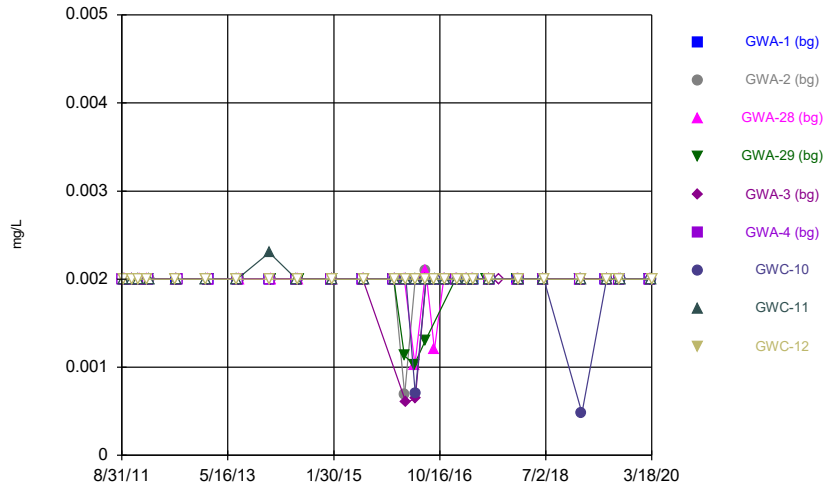
Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GWA-1 (bg)	0	-25	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-28 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-29 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-3 (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-4 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWC-14	0.1328	42	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWC-15	0.00402	22	58	No	16	31.25	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-1 (bg)	0	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.1762	25	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-28 (bg)	-0.009397	-26	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-29 (bg)	-0.07046	-33	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-3 (bg)	3.827	18	25	No	9	11.11	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-4 (bg)	-0.8006	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWC-14	11.5	42	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-1 (bg)	-0.01597	-13	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-2 (bg)	-0.006869	-6	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-28 (bg)	-0.107	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-29 (bg)	-0.03488	-25	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-3 (bg)	-0.2964	-34	-25	Yes	9	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-4 (bg)	-0.05368	-30	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWC-26	-0.02763	-35	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-1 (bg)	0	5	58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	0.134	32	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-28 (bg)	0.1533	40	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-29 (bg)	-0.5627	-19	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-3 (bg)	-41.89	-22	-25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-4 (bg)	0.2914	35	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-13	0	1	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-17	0.06713	50	58	No	16	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-24	0	-11	-58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-26	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-30	0	-13	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-34	0.04442	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-35	0.01442	13	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-6	-0.4809	-21	-58	No	16	0	n/a	n/a	0.01	NP

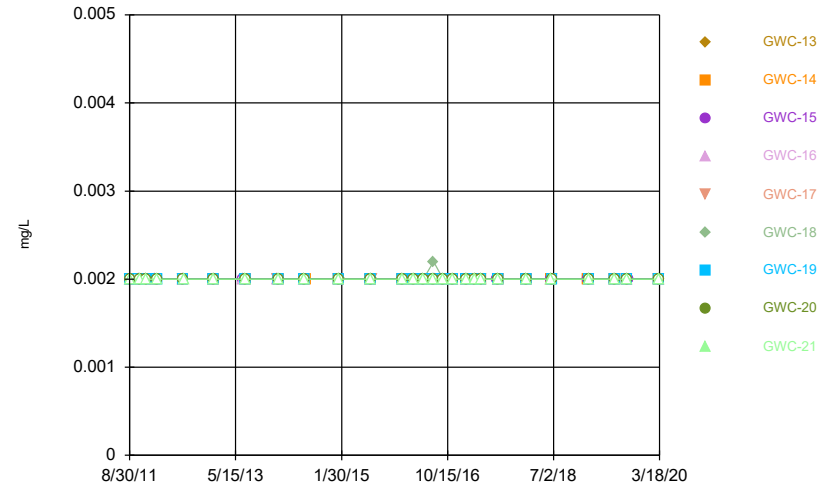
FIGURE A.

Time Series



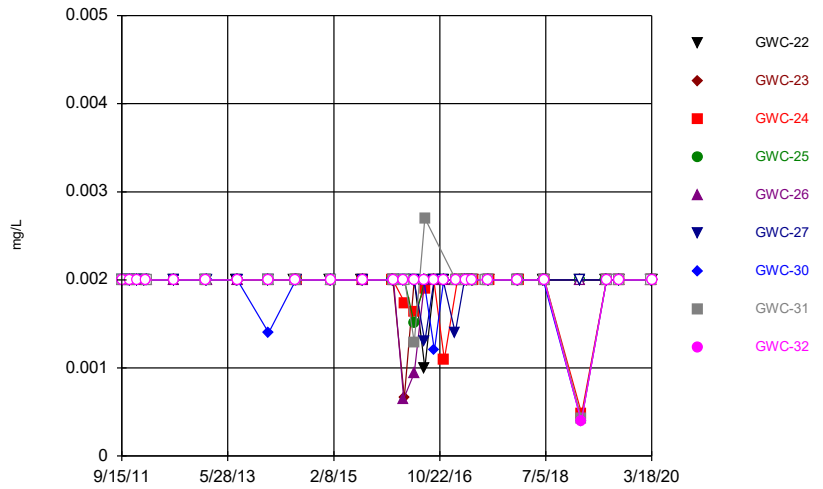
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



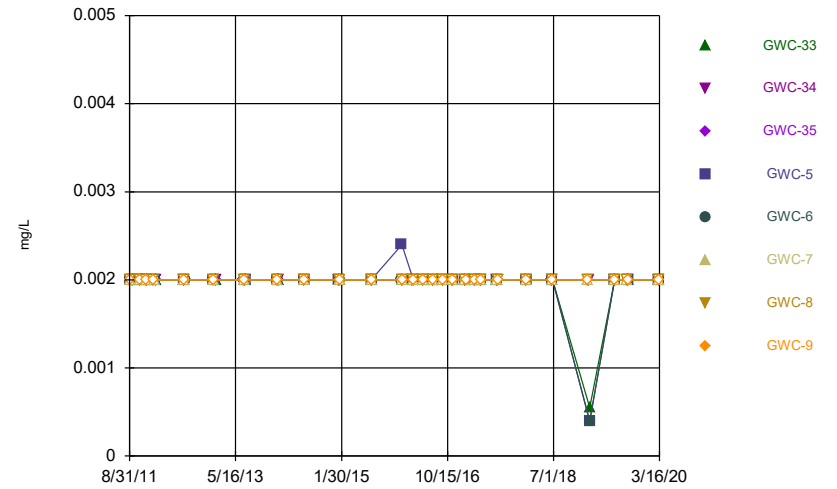
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Antimony Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Antimony Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.002	<0.002			
9/13/2011								<0.002	<0.002
9/16/2011	<0.002		<0.002						
9/17/2011		<0.002		<0.002					
10/27/2011	<0.002	<0.002				<0.002			
10/28/2011			<0.002	<0.002				<0.002	<0.002
12/4/2011								<0.002	<0.002
12/12/2011			<0.002	<0.002					
12/13/2011	<0.002								
12/14/2011		<0.002				<0.002			
1/24/2012									<0.002
1/25/2012			<0.002						
1/31/2012	<0.002			<0.002					
2/1/2012							<0.002		
2/7/2012		<0.002							
2/9/2012								<0.002	
7/11/2012									<0.002
7/16/2012			<0.002						
7/17/2012				<0.002					
7/18/2012	<0.002							<0.002	
7/23/2012		<0.002				<0.002			
1/8/2013								<0.002	<0.002
1/23/2013		<0.002				<0.002			
1/24/2013	<0.002		<0.002	<0.002					
7/9/2013								<0.002	
7/10/2013									<0.002
7/17/2013	<0.002					<0.002			
7/23/2013			<0.002						
7/24/2013		<0.002		<0.002					
1/15/2014						<0.002		0.0023 (J)	
1/21/2014	<0.002								<0.002
1/22/2014		<0.002	<0.002	<0.002					
6/25/2014	<0.002				<0.002	<0.002		<0.002	
7/1/2014		<0.002	<0.002						<0.002
7/8/2014				<0.002 (D)					
1/14/2015	<0.002					<0.002			
1/21/2015			<0.002	<0.002				<0.002	<0.002
1/22/2015		<0.002							
7/21/2015	<0.002		<0.002		<0.002	<0.002			
7/22/2015		<0.002		<0.002					
7/28/2015								<0.002	<0.002
1/19/2016				<0.002 (D)					
1/20/2016		<0.002				<0.002			
1/21/2016	<0.002								
1/22/2016			<0.002						
1/25/2016							<0.002		
1/26/2016								<0.002	<0.002
3/22/2016			<0.002	0.00113 (J)					
3/23/2016	<0.002	0.00069 (J)				<0.002			
3/29/2016								<0.002	<0.002
3/30/2016							<0.002		
3/31/2016					0.000602 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				0.00103 (J)		<0.002			
5/20/2016	<0.002								
5/23/2016			0.00103 (J)						
5/24/2016		<0.002							
5/25/2016					0.000642 (J)		0.000703 (J)	<0.002	<0.002
7/21/2016	<0.002			0.0013 (J)		<0.002			
7/22/2016									<0.002
7/25/2016			0.0021 (J)					<0.002	
7/26/2016		0.0021 (J)							
7/27/2016					<0.002		<0.002		
9/14/2016						<0.002			
9/15/2016	<0.002		0.0012 (J)						<0.002
9/16/2016		<0.002					<0.002		
9/19/2016								<0.002	
11/9/2016			<0.002						
11/10/2016		<0.002				<0.002			
11/11/2016	<0.002								
11/16/2016								<0.002	<0.002
11/17/2016							<0.002		
1/17/2017			<0.002	<0.002		<0.002			
1/19/2017	<0.002	<0.002							
1/31/2017								<0.002	<0.002
2/1/2017							<0.002		
3/16/2017	<0.002		<0.002			<0.002			
3/17/2017		<0.002							
3/23/2017								<0.002	<0.002
3/24/2017							<0.002		
4/27/2017			<0.002	<0.002		<0.002			
4/28/2017	<0.002	<0.002							
5/2/2017								<0.002	
5/3/2017							<0.002		<0.002
7/18/2017				<0.002					
8/1/2017			<0.002	<0.002	<0.002				
8/2/2017		<0.002				<0.002			
8/3/2017	<0.002								
8/7/2017								<0.002	<0.002
8/8/2017							<0.002		
10/3/2017					<0.002				
1/19/2018	<0.002	<0.002	<0.002	<0.002					
1/22/2018						<0.002			
1/24/2018								<0.002	<0.002
1/25/2018							<0.002		
6/19/2018	<0.002	<0.002	<0.002	<0.002		<0.002			
6/20/2018					<0.002			<0.002	
6/21/2018							<0.002		
6/26/2018									<0.002
1/17/2019	<0.002	<0.002				<0.002			
1/18/2019				<0.002	<0.002				
1/21/2019			<0.002						
1/24/2019								<0.002	
1/25/2019									<0.002
1/31/2019							0.00048 (J)		

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.002	<0.002
8/4/2017	<0.002		<0.002						
8/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/25/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/26/2018								<0.002	<0.002
6/20/2018	<0.002	<0.002	<0.002	<0.002					<0.002
6/21/2018						<0.002	<0.002	<0.002	
6/26/2018					<0.002				
1/22/2019	<0.002	<0.002	<0.002						
1/24/2019					<0.002				<0.002
1/25/2019				<0.002					
1/28/2019						<0.002	<0.002	<0.002	
6/25/2019	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
6/26/2019							<0.002		
6/27/2019						<0.002			
9/11/2019				<0.002	<0.002	<0.002		<0.002	<0.002
9/12/2019	<0.002	<0.002					<0.002		
9/17/2019			<0.002						
3/12/2020	<0.002								
3/16/2020			<0.002						
3/17/2020		<0.002		<0.002	<0.002	<0.002			
3/18/2020							<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.002						<0.002		<0.002
9/16/2011		<0.002							
9/17/2011				<0.002	<0.002	<0.002		<0.002	
10/28/2011							<0.002		
10/29/2011	<0.002	<0.002			<0.002	<0.002			
10/31/2011				<0.002				<0.002	<0.002
12/13/2011	<0.002	<0.002					<0.002		<0.002
12/14/2011				<0.002	<0.002	<0.002			
1/25/2012	<0.002					<0.002			
1/31/2012		<0.002							
2/1/2012									<0.002
2/7/2012				<0.002	<0.002			<0.002	
2/8/2012							<0.002		
7/17/2012				<0.002	<0.002	<0.002			<0.002
7/18/2012	<0.002	<0.002					<0.002		
1/22/2013	<0.002	<0.002							
1/23/2013								<0.002	<0.002
1/24/2013					<0.002	<0.002	<0.002		
7/16/2013	<0.002								
7/23/2013		<0.002							
7/24/2013				<0.002	<0.002	<0.002	<0.002		<0.002
1/21/2014	<0.002								
1/22/2014		<0.002							
1/23/2014				<0.002	<0.002	<0.002	0.0014 (J)	<0.002	<0.002
6/25/2014	<0.002								
7/1/2014		<0.002					<0.002	<0.002	<0.002
7/8/2014			<0.002	<0.002	<0.002	<0.002			
1/14/2015	<0.002								
1/20/2015							<0.002		<0.002
1/21/2015				<0.002	<0.002	<0.002		<0.002	
1/22/2015		<0.002							
7/23/2015	<0.002								
7/29/2015		<0.002							
7/30/2015				<0.002		<0.002	<0.002		<0.002
7/31/2015			<0.002		<0.002				
1/19/2016							<0.002		
1/20/2016			<0.002						
1/21/2016		<0.002		<0.002					
1/22/2016						<0.002			
1/25/2016					<0.002			<0.002	<0.002
1/26/2016	<0.002								
3/23/2016						<0.002	<0.002		<0.002
3/24/2016					0.000653 (J)				
3/28/2016				<0.002					
3/29/2016		0.000665 (J)							
3/30/2016			0.00174 (J)					<0.002	
3/31/2016	<0.002								
5/20/2016							<0.002		
5/24/2016						<0.002			<0.002
5/25/2016		<0.002	0.00163 (J)	0.00151 (J)	0.000943 (J)			0.00129 (J)	
5/26/2016	<0.002								
7/21/2016							<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.002
7/26/2016	0.001 (J)				<0.002	0.0013 (J)			
7/27/2016		<0.002	0.0019 (J)	<0.002				0.0027	
9/16/2016			0.002 (J)						<0.002
9/19/2016				<0.002	<0.002	<0.002			
9/20/2016	<0.002	<0.002					0.0012 (J)		
11/11/2016						<0.002			
11/14/2016					<0.002		<0.002		
11/15/2016				<0.002					<0.002
11/17/2016	<0.002								
11/18/2016		<0.002	0.0011 (J)						
1/19/2017					<0.002				
1/20/2017						0.0014 (J)			
1/24/2017				<0.002			<0.002		
1/25/2017								<0.002	
1/26/2017									<0.002
2/3/2017	<0.002	<0.002	<0.002						
3/16/2017					<0.002	<0.002			
3/17/2017							<0.002		
3/23/2017				<0.002				<0.002	
3/24/2017									<0.002
3/28/2017	<0.002	<0.002							
3/29/2017			<0.002						
4/28/2017						<0.002			
5/1/2017					<0.002		<0.002		
5/2/2017				<0.002				<0.002	<0.002
5/3/2017	<0.002								
5/4/2017		<0.002	<0.002						
7/19/2017								<0.002	
8/3/2017				<0.002	<0.002	<0.002			<0.002
8/4/2017							<0.002	<0.002	
8/8/2017	<0.002	<0.002	<0.002						
1/19/2018						<0.002			
1/22/2018					<0.002				
1/23/2018								<0.002	<0.002
1/24/2018							<0.002		
1/25/2018	<0.002	<0.002	<0.002	<0.002					
6/20/2018	<0.002	<0.002							
6/21/2018							<0.002		
6/26/2018									<0.002
6/27/2018			<0.002	<0.002	<0.002	<0.002		<0.002	
1/24/2019	<0.002			<0.002	<0.002	<0.002			
1/25/2019		<0.002							
1/30/2019							0.0004 (J)		0.00039 (J)
1/31/2019			0.00048 (J)					0.00042 (J)	
6/25/2019	<0.002			<0.002	<0.002				
6/26/2019		<0.002	<0.002			<0.002		<0.002	
6/27/2019							<0.002		<0.002
9/10/2019	<0.002						<0.002		
9/11/2019			<0.002	<0.002				<0.002	
9/12/2019		<0.002			<0.002	<0.002			<0.002
3/11/2020							<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

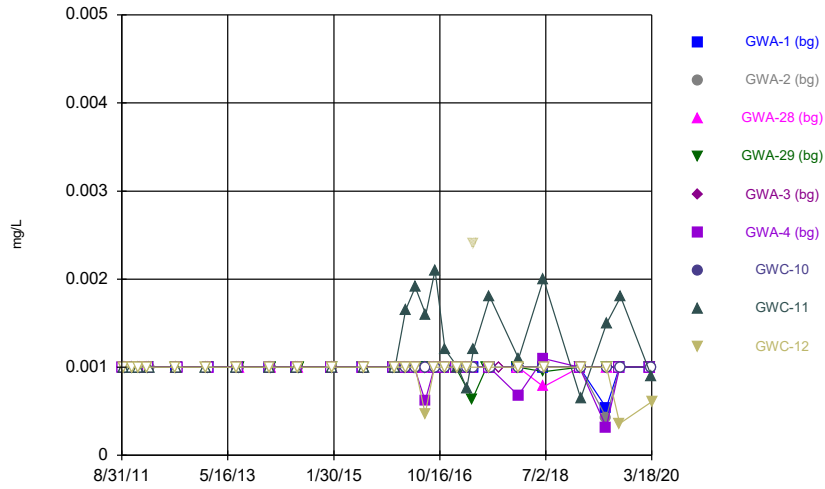
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.002	<0.002			
9/7/2011						<0.002	<0.002	<0.002
9/16/2011	<0.002	<0.002	<0.002					
10/27/2011				<0.002				
10/30/2011	<0.002				<0.002	<0.002	<0.002	<0.002
10/31/2011		<0.002	<0.002					
12/4/2011								<0.002
12/5/2011				<0.002	<0.002	<0.002	<0.002	
12/12/2011		<0.002	<0.002					
12/13/2011	<0.002							
1/19/2012							<0.002	<0.002
1/25/2012				<0.002	<0.002	<0.002		
2/1/2012	<0.002	<0.002	<0.002					
7/16/2012		<0.002	<0.002					
7/17/2012	<0.002							
7/18/2012				<0.002		<0.002	<0.002	<0.002
7/24/2012					<0.002			
1/7/2013						<0.002	<0.002	
1/8/2013					<0.002			<0.002
1/9/2013				<0.002				
1/22/2013		<0.002	<0.002					
1/23/2013	<0.002							
7/2/2013			<0.002					
7/9/2013					<0.002	<0.002	<0.002	<0.002
7/17/2013	<0.002	<0.002		<0.002				
1/14/2014						<0.002	<0.002	<0.002
1/15/2014				<0.002	<0.002			
1/21/2014			<0.002					
1/23/2014	<0.002	<0.002						
6/24/2014						<0.002	<0.002	<0.002
6/25/2014		<0.002	<0.002	<0.002	<0.002			
1/13/2015				<0.002				
1/14/2015		<0.002	<0.002					
1/20/2015	<0.002				<0.002	<0.002	<0.002	<0.002
7/24/2015				<0.002	<0.002			
7/27/2015						<0.002	<0.002	<0.002
7/28/2015			<0.002					
7/29/2015	<0.002	<0.002						
1/20/2016				0.0024 (J)	<0.002			
1/21/2016		<0.002	<0.002					
1/25/2016	<0.002							
1/26/2016						<0.002	<0.002	<0.002
3/23/2016	<0.002							
3/24/2016		<0.002	<0.002					
3/28/2016				<0.002	<0.002			
3/29/2016						<0.002	<0.002	<0.002
5/23/2016		<0.002	<0.002	<0.002				
5/24/2016	<0.002				<0.002	<0.002	<0.002	<0.002
7/21/2016		<0.002	<0.002	<0.002	<0.002			
7/22/2016	<0.002					<0.002		
7/25/2016								<0.002
7/26/2016							<0.002	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

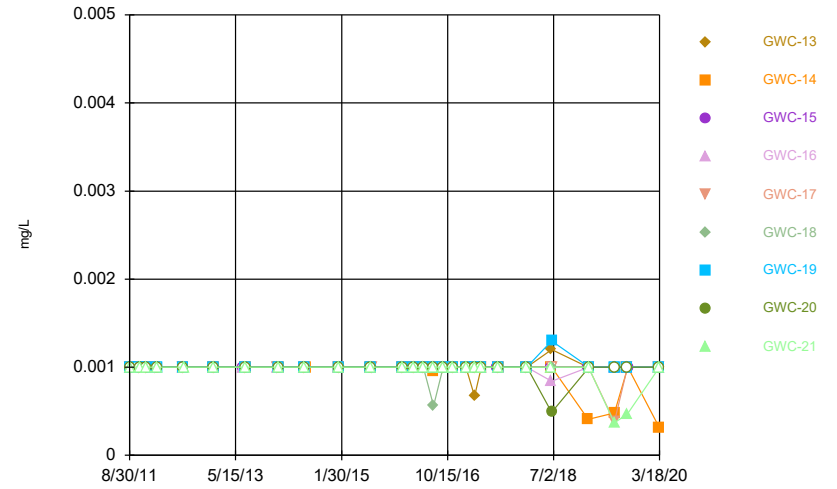
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.002	<0.002	<0.002	<0.002	<0.002		
9/16/2016	<0.002							
9/19/2016							<0.002	<0.002
11/15/2016		<0.002	<0.002	<0.002				
11/16/2016					<0.002	<0.002	<0.002	<0.002
11/17/2016	<0.002							
1/25/2017	<0.002	<0.002						
1/26/2017			<0.002	<0.002	<0.002	<0.002	<0.002	
1/31/2017								<0.002
3/22/2017		<0.002	<0.002	<0.002	<0.002	<0.002		
3/23/2017	<0.002						<0.002	<0.002
5/1/2017	<0.002	<0.002						
5/2/2017			<0.002	<0.002	<0.002	<0.002		<0.002
5/3/2017							<0.002	
8/3/2017		<0.002	<0.002	<0.002	<0.002			
8/4/2017	<0.002					<0.002		
8/7/2017							<0.002	<0.002
1/23/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/24/2018							<0.002	<0.002
6/19/2018			<0.002					
6/20/2018		<0.002						
6/21/2018							<0.002	<0.002
6/25/2018				<0.002	<0.002	<0.002		
6/26/2018	<0.002							
1/21/2019			<0.002			<0.002		
1/22/2019							<0.002	<0.002
1/28/2019		<0.002						
1/30/2019	0.00055 (J)			0.0004 (J)	0.00039 (J)			
6/25/2019						<0.002	<0.002	<0.002
6/26/2019	<0.002	<0.002	<0.002	<0.002	<0.002			
9/10/2019						<0.002	<0.002	
9/11/2019		<0.002						
9/12/2019	<0.002		<0.002	<0.002	<0.002			
9/16/2019								<0.002
3/11/2020		<0.002	<0.002					
3/12/2020	<0.002					<0.002	<0.002	
3/16/2020				<0.002	<0.002			<0.002

Time Series



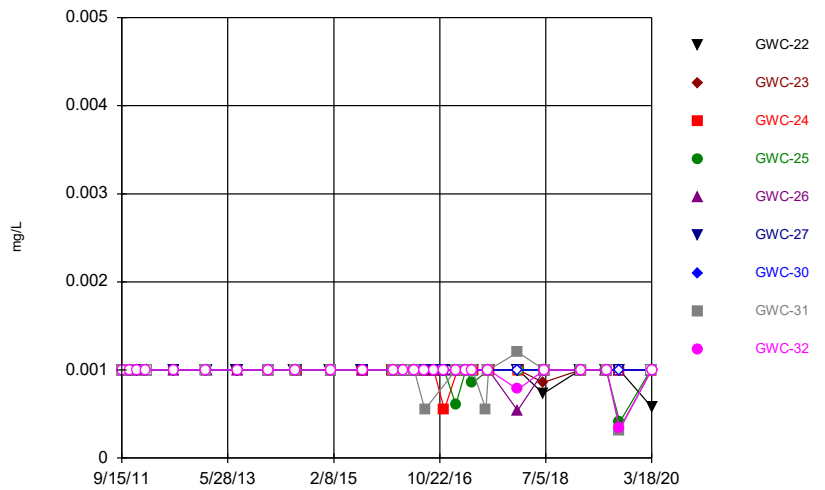
Constituent: Arsenic Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



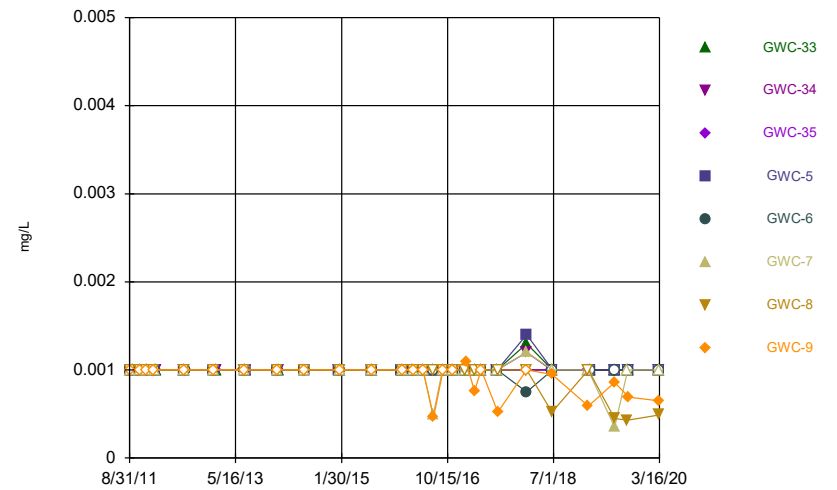
Constituent: Arsenic Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Arsenic Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Arsenic Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								<0.001	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		<0.001					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	<0.001				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			<0.001					
2/1/2012							<0.001		
2/7/2012		<0.001							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							<0.001	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	<0.001					
7/9/2013								<0.001	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		<0.001					
1/15/2014						<0.001		<0.001	
1/21/2014	<0.001								<0.001
1/22/2014		<0.001	<0.001	<0.001					
6/25/2014	<0.001				<0.001	<0.001		<0.001	
7/1/2014		<0.001	<0.001						<0.001
7/8/2014				<0.001 (D)					
1/14/2015	<0.001					<0.001			
1/21/2015			<0.001	<0.001				<0.001	<0.001
1/22/2015		<0.001							
7/21/2015	<0.001		<0.001		<0.001	<0.001			
7/22/2015		<0.001		<0.001					
7/28/2015								<0.001	<0.001
1/19/2016				<0.001 (D)					
1/20/2016		<0.001				<0.001			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							<0.001		
1/26/2016								<0.001	<0.001
3/22/2016			<0.001	<0.001					
3/23/2016	<0.001	<0.001				<0.001			
3/29/2016								0.00165 (J)	<0.001
3/30/2016							<0.001		
3/31/2016					<0.001				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				<0.001		<0.001			
5/20/2016	<0.001								
5/23/2016			<0.001						
5/24/2016		<0.001							
5/25/2016					<0.001		<0.001	0.00191 (J)	<0.001
7/21/2016	<0.001			<0.001		0.00062 (J)			
7/22/2016									0.00047 (J)
7/25/2016			<0.001					0.0016	
7/26/2016		<0.001							
7/27/2016					<0.001		<0.001		
9/14/2016						<0.001			
9/15/2016	<0.001		<0.001						<0.001
9/16/2016		<0.001					<0.001		
9/19/2016								0.0021	
11/9/2016			<0.001						
11/10/2016		<0.001				<0.001			
11/11/2016	<0.001								
11/16/2016								0.0012 (J)	<0.001
11/17/2016							<0.001		
1/17/2017			<0.001	<0.001		<0.001			
1/19/2017	<0.001	<0.001							
1/31/2017								0.001 (J)	<0.001
2/1/2017							<0.001		
3/16/2017	<0.001		<0.001			<0.001			
3/17/2017		<0.001							
3/23/2017								0.00076 (J)	<0.001
3/24/2017							<0.001		
4/27/2017			<0.001	0.00064 (J)		<0.001			
4/28/2017	<0.001	<0.001						0.0012 (J)	
5/2/2017									
5/3/2017							<0.001		0.0024 (O)
7/18/2017				<0.001					
8/1/2017			<0.001	<0.001	<0.001				
8/2/2017		<0.001				<0.001			
8/3/2017	<0.001								
8/7/2017								0.0018	<0.001
8/8/2017							<0.001		
10/3/2017					<0.001				
1/19/2018	<0.001	<0.001	<0.001	<0.001					
1/22/2018						0.00068 (J)			
1/24/2018								0.0011 (J)	<0.001
1/25/2018							<0.001		
6/19/2018	<0.001	<0.001	0.00078 (J)	0.00095 (J)		0.0011 (J)			
6/20/2018					0.001 (J)			0.002	
6/21/2018							<0.001		
6/26/2018									<0.001
1/17/2019	<0.001	<0.001				<0.001			
1/18/2019				<0.001	<0.001				
1/21/2019			<0.001						
1/24/2019								0.00065 (J)	
1/25/2019									<0.001
1/31/2019							<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.001	<0.001
8/4/2017	<0.001		<0.001						
8/7/2017		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/25/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1/26/2018								<0.001	<0.001
6/20/2018	0.0012 (J)	<0.001	<0.001	0.00084 (J)					<0.001
6/21/2018						0.001 (J)	0.0013	0.00049 (J)	
6/26/2018					<0.001				
1/22/2019	<0.001	0.00041 (J)	<0.001						
1/24/2019					<0.001				<0.001
1/25/2019				<0.001					
1/28/2019						<0.001	<0.001	<0.001	
6/25/2019	<0.001	0.00048 (J)	<0.001	<0.001	0.00038 (J)			<0.001	0.00037 (J)
6/26/2019							<0.001		
6/27/2019						<0.001			
9/11/2019				<0.001	<0.001	<0.001		<0.001	0.00047 (J)
9/12/2019	<0.001	<0.001					<0.001		
9/17/2019			<0.001						
3/12/2020	<0.001								
3/16/2020			<0.001						
3/17/2020		0.00031 (J)		<0.001	<0.001	<0.001			
3/18/2020							<0.001	<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.001						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				<0.001	<0.001	<0.001		<0.001	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				<0.001	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			<0.001	
2/8/2012							<0.001		
7/17/2012				<0.001	<0.001	<0.001			<0.001
7/18/2012	<0.001	<0.001					<0.001		
1/22/2013	<0.001	<0.001							
1/23/2013								<0.001	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	<0.001								
7/23/2013		<0.001							
7/24/2013				<0.001	<0.001	<0.001	<0.001		<0.001
1/21/2014	<0.001								
1/22/2014		<0.001							
1/23/2014				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/25/2014	<0.001								
7/1/2014		<0.001					<0.001	<0.001	<0.001
7/8/2014			<0.001	<0.001	<0.001	<0.001			
1/14/2015	<0.001								
1/20/2015							<0.001		<0.001
1/21/2015				<0.001	<0.001	<0.001		<0.001	
1/22/2015		<0.001							
7/23/2015	<0.001								
7/29/2015		<0.001							
7/30/2015				<0.001		<0.001	<0.001		<0.001
7/31/2015			<0.001		<0.001				
1/19/2016							<0.001		
1/20/2016			<0.001						
1/21/2016		<0.001		<0.001					
1/22/2016						<0.001			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	<0.001								
3/23/2016						<0.001	<0.001		<0.001
3/24/2016					<0.001				
3/28/2016				<0.001					
3/29/2016		<0.001							
3/30/2016			<0.001					<0.001	
3/31/2016	<0.001								
5/20/2016							<0.001		
5/24/2016						<0.001			<0.001
5/25/2016		<0.001	<0.001	<0.001	<0.001			<0.001	
5/26/2016	<0.001								
7/21/2016							<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.001
7/26/2016	<0.001				<0.001	<0.001			
7/27/2016		<0.001	<0.001	<0.001				0.00055 (J)	
9/16/2016			<0.001						<0.001
9/19/2016				<0.001	<0.001	<0.001			
9/20/2016	<0.001	<0.001					<0.001		
11/11/2016						<0.001			
11/14/2016					<0.001		<0.001		
11/15/2016				<0.001					<0.001
11/17/2016	<0.001								
11/18/2016		<0.001	0.00055 (J)						
1/19/2017					<0.001				
1/20/2017						<0.001			
1/24/2017				0.00061 (J)			<0.001		
1/25/2017								<0.001	
1/26/2017									<0.001
2/3/2017	<0.001	<0.001	<0.001						
3/16/2017					<0.001	<0.001			
3/17/2017							<0.001		
3/23/2017				<0.001				<0.001	
3/24/2017									<0.001
3/28/2017	<0.001	<0.001							
3/29/2017			<0.001						
4/28/2017						<0.001			
5/1/2017					<0.001		<0.001		
5/2/2017				0.00085 (J)				<0.001	<0.001
5/3/2017	<0.001								
5/4/2017		<0.001	<0.001						
7/19/2017								0.00055 (J)	
8/3/2017				<0.001	<0.001	<0.001			<0.001
8/4/2017							<0.001	<0.001	
8/8/2017	<0.001	<0.001	<0.001						
1/19/2018						<0.001			
1/22/2018					0.00054 (J)				
1/23/2018								0.0012 (J)	0.00078 (J)
1/24/2018							<0.001		
1/25/2018	<0.001	<0.001	<0.001	<0.001					
6/20/2018	0.00073 (J)	0.00086 (J)							
6/21/2018							<0.001		
6/26/2018									<0.001
6/27/2018			<0.001	<0.001	<0.001	<0.001		<0.001	
1/24/2019	<0.001			<0.001	<0.001	<0.001			
1/25/2019		<0.001							
1/30/2019							<0.001		<0.001
1/31/2019			<0.001					<0.001	
6/25/2019	<0.001			<0.001	<0.001				
6/26/2019		<0.001	<0.001			<0.001		<0.001	
6/27/2019							<0.001		<0.001
9/10/2019	<0.001						<0.001		
9/11/2019			<0.001	0.00041 (J)				0.00032 (J)	
9/12/2019		<0.001			<0.001	<0.001			0.00034 (J)
3/11/2020							<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

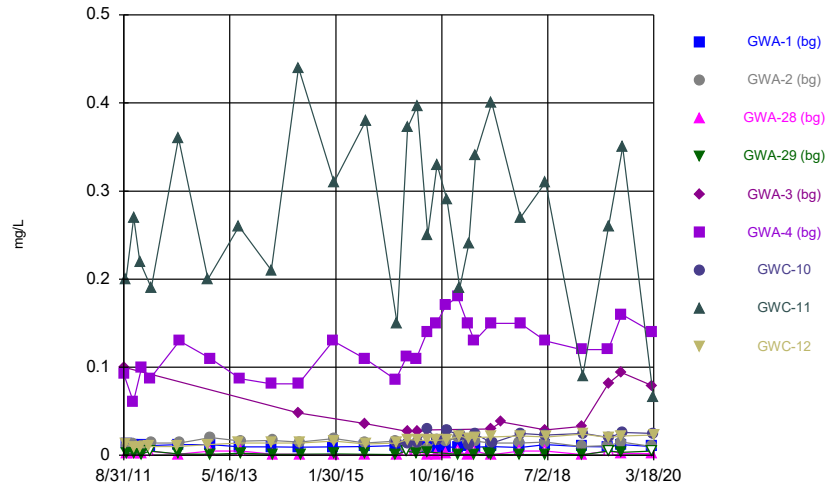
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	<0.001			
9/7/2011						<0.001	<0.001	<0.001
9/16/2011	<0.001	<0.001	<0.001					
10/27/2011				<0.001				
10/30/2011	<0.001				<0.001	<0.001	<0.001	<0.001
10/31/2011		<0.001	<0.001					
12/4/2011								<0.001
12/5/2011				<0.001	<0.001	<0.001	<0.001	
12/12/2011		<0.001	<0.001					
12/13/2011	<0.001							
1/19/2012							<0.001	<0.001
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	<0.001					
7/16/2012		<0.001	<0.001					
7/17/2012	<0.001							
7/18/2012				<0.001		<0.001	<0.001	<0.001
7/24/2012					<0.001			
1/7/2013						<0.001	<0.001	
1/8/2013					<0.001			<0.001
1/9/2013				<0.001				
1/22/2013		<0.001	<0.001					
1/23/2013	<0.001							
7/2/2013			<0.001					
7/9/2013					<0.001	<0.001	<0.001	<0.001
7/17/2013	<0.001	<0.001		<0.001				
1/14/2014						<0.001	<0.001	<0.001
1/15/2014				<0.001	<0.001			
1/21/2014			<0.001					
1/23/2014	<0.001	<0.001						
6/24/2014						<0.001	<0.001	<0.001
6/25/2014		<0.001	<0.001	<0.001	<0.001			
1/13/2015				<0.001				
1/14/2015		<0.001	<0.001					
1/20/2015	<0.001				<0.001	<0.001	<0.001	<0.001
7/24/2015				<0.001	<0.001			
7/27/2015						<0.001	<0.001	<0.001
7/28/2015			<0.001					
7/29/2015	<0.001	<0.001						
1/20/2016				<0.001	<0.001			
1/21/2016		<0.001	<0.001					
1/25/2016	<0.001							
1/26/2016						<0.001	<0.001	<0.001
3/23/2016	<0.001							
3/24/2016		<0.001	<0.001					
3/28/2016				<0.001	<0.001			
3/29/2016						<0.001	<0.001	<0.001
5/23/2016		<0.001	<0.001	<0.001				
5/24/2016	<0.001				<0.001	<0.001	<0.001	<0.001
7/21/2016		<0.001	<0.001	<0.001	<0.001			
7/22/2016	<0.001					0.00049 (J)		
7/25/2016								0.00046 (J)
7/26/2016							<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

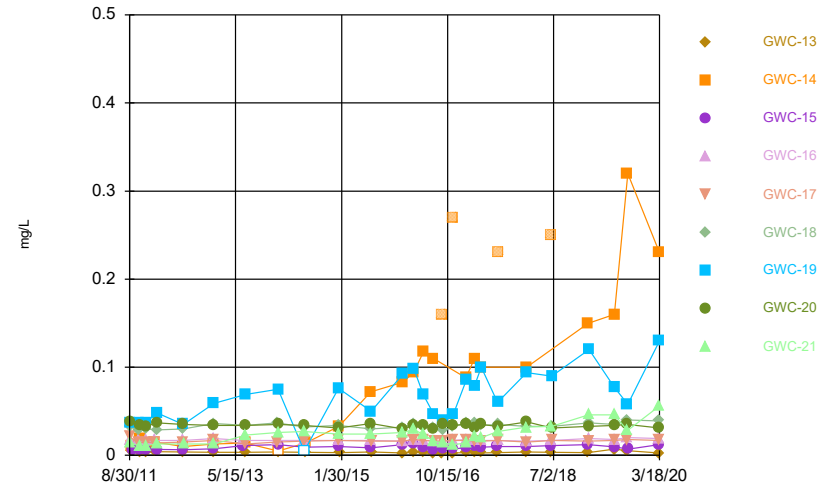
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.001	<0.001	<0.001	<0.001	<0.001		
9/16/2016	<0.001							
9/19/2016							<0.001	<0.001
11/15/2016		<0.001	<0.001	<0.001				
11/16/2016					<0.001	<0.001	<0.001	<0.001
11/17/2016	<0.001							
1/25/2017	<0.001	<0.001						
1/26/2017			<0.001	<0.001	<0.001	<0.001	<0.001	
1/31/2017								0.0011 (J)
3/22/2017		<0.001	<0.001	<0.001	<0.001	<0.001		
3/23/2017	<0.001						<0.001	0.00076 (J)
5/1/2017	<0.001	<0.001						
5/2/2017			<0.001	<0.001	<0.001	<0.001		<0.001
5/3/2017							<0.001	
8/3/2017		<0.001	<0.001	<0.001	<0.001			
8/4/2017	<0.001					<0.001		
8/7/2017							<0.001	0.00052 (J)
1/23/2018	0.0013	0.0012 (J)	0.001 (J)	0.0014	0.00075 (J)	0.0012 (J)		
1/24/2018							<0.001	<0.001
6/19/2018			<0.001					
6/20/2018		0.001 (J)						
6/21/2018							0.00052 (J)	0.00095 (J)
6/25/2018				<0.001	<0.001	<0.001		
6/26/2018	<0.001							
1/21/2019			<0.001			<0.001		
1/22/2019							<0.001	0.00059 (J)
1/28/2019		<0.001						
1/30/2019	<0.001			<0.001	<0.001			
6/25/2019						0.00035 (J)	0.00045 (J)	0.00086 (J)
6/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
9/10/2019						<0.001	0.00043 (J)	
9/11/2019		<0.001						
9/12/2019	<0.001		<0.001	<0.001	<0.001			
9/16/2019								0.00069 (J)
3/11/2020		<0.001	<0.001					
3/12/2020	<0.001					<0.001	0.00049 (J)	
3/16/2020				<0.001	<0.001			0.00065 (J)

Time Series



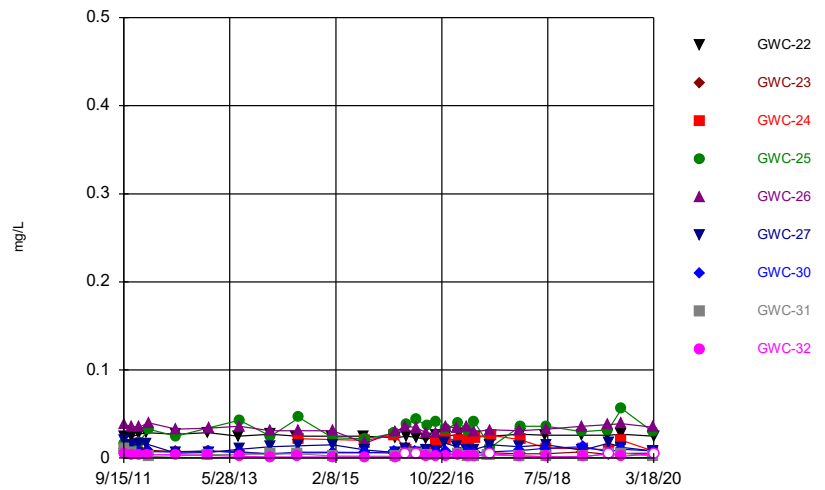
Constituent: Barium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



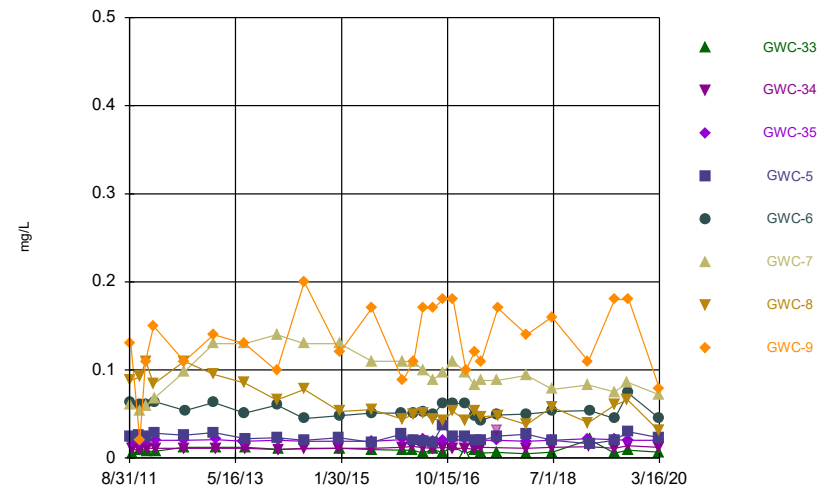
Constituent: Barium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Barium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Barium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					0.1	0.092			
9/13/2011								0.2	0.013
9/16/2011	0.013		0.0022						
9/17/2011		0.011		0.0016					
10/27/2011	0.012	0.013				0.061			
10/28/2011			0.0016	0.0015				0.27	0.0092
12/4/2011								0.22	0.0089
12/12/2011			0.0018	0.0013					
12/13/2011	0.012								
12/14/2011		0.01				0.1			
1/24/2012									0.0099
1/25/2012			<0.01						
1/31/2012	0.011			<0.01					
2/1/2012							0.087		
2/7/2012		0.014							
2/9/2012								0.19	
7/11/2012									0.0099
7/16/2012			0.0011						
7/17/2012				0.0016					
7/18/2012	0.012							0.36	
7/23/2012		0.014				0.13			
1/8/2013								0.2	0.012
1/23/2013		0.02				0.11			
1/24/2013	0.012		<0.01	0.0013					
7/9/2013								0.26	
7/10/2013									0.014
7/17/2013	0.0097						0.087		
7/23/2013			<0.01						
7/24/2013		0.016		0.0022					
1/15/2014						0.081		0.21	
1/21/2014	0.0096								0.014
1/22/2014		0.017	0.0013	0.0012 (J)					
6/25/2014	0.0094				0.048	0.081		0.44	
7/1/2014		0.015	0.0012 (J)						0.014
7/8/2014				0.0013 (D)					
1/14/2015	0.0095					0.13			
1/21/2015			0.00042 (J)	0.0015				0.31	0.016
1/22/2015		0.019							
7/21/2015	0.0099		0.00055 (J)		0.036	0.11			
7/22/2015		0.014		0.0014					
7/28/2015								0.38	0.013
1/19/2016				0.00092 (JD)					
1/20/2016		0.016				0.086			
1/21/2016	0.011								
1/22/2016			0.00037 (J)						
1/25/2016							0.014		
1/26/2016								0.15	0.014
3/22/2016			<0.01	<0.01					
3/23/2016	0.00968 (J)	0.00773 (J)				0.112			
3/29/2016								0.372	0.0179
3/30/2016							0.0127		
3/31/2016					0.027				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				0.00265 (J)		0.11			
5/20/2016	0.0096 (J)								
5/23/2016			<0.01						
5/24/2016		0.00761 (J)							
5/25/2016					0.027		0.014	0.396	0.0173
7/21/2016	0.0087			0.0038		0.14			
7/22/2016									0.017
7/25/2016			0.001 (J)					0.25	
7/26/2016		0.0078							
7/27/2016					0.029		0.03		
9/14/2016						0.15			
9/15/2016	0.0086		0.00092 (J)						0.017
9/16/2016		0.017					0.017		
9/19/2016								0.33	
11/9/2016			0.0016 (J)						
11/10/2016		0.016				0.17			
11/11/2016	0.0095								
11/16/2016								0.29	0.018
11/17/2016							0.028		
1/17/2017			<0.01	0.0011 (J)		0.18			
1/19/2017	0.0087	0.02							
1/31/2017								0.19	0.022
2/1/2017							0.023		
3/16/2017	0.01		0.00055 (J)			0.15			
3/17/2017		0.016							
3/23/2017								0.24	0.019
3/24/2017							0.012		
4/27/2017			<0.01	0.00097 (J)		0.13			
4/28/2017	0.0091	0.016						0.34	
5/2/2017									
5/3/2017							0.024		0.02
7/18/2017				0.0016 (J)					
8/1/2017			0.00059 (J)	0.0011 (J)	0.03				
8/2/2017		0.014				0.15			
8/3/2017	0.0099								
8/7/2017								0.4	0.021
8/8/2017							0.014		
10/3/2017					0.038				
1/19/2018	0.0089	0.014	<0.01	0.00076 (J)					
1/22/2018						0.15			
1/24/2018								0.27	0.022
1/25/2018							0.025		
6/19/2018	0.012	0.015	<0.01	0.00078 (J)		0.13			
6/20/2018					0.029			0.31	
6/21/2018							0.023		
6/26/2018									0.021
1/17/2019	0.01	0.01				0.12			
1/18/2019				0.0007 (J)	0.033				
1/21/2019			0.00088						
1/24/2019								0.09	
1/25/2019									0.024
1/31/2019							0.025		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				0.018	0.021	0.033	0.037		
8/31/2011								0.038	0.015
9/13/2011	0.0043	0.01							
9/16/2011			0.0061						
10/26/2011				0.017	0.014	0.028	0.037		
10/27/2011		0.019	0.0068					0.034	0.01
10/28/2011	0.0041								
12/3/2011		0.011	0.0067	0.018	0.015	0.03	0.037		
12/4/2011	0.0037							0.033	0.011
1/24/2012	0.0042	0.015							
1/25/2012				0.017	0.014				
2/8/2012							0.048	0.037	0.013
2/9/2012			0.0066			0.029			
7/11/2012	0.0038	0.01	0.0064	0.017	0.015	0.03	0.035	0.035	
7/17/2012									0.013
1/8/2013	0.0034	0.013	0.0075	0.019	0.017	0.036	0.059	0.034	
1/9/2013									0.013
7/2/2013			0.011	0.017					
7/10/2013	0.0035	0.014							
7/16/2013					0.013	0.034	0.069	0.034	0.023
1/14/2014				0.017	0.015	0.037			
1/21/2014	0.0037	<0.01	0.012				0.075	0.035	0.026
6/24/2014			0.0094			0.032	<0.01	0.034	0.027
6/25/2014				0.017	0.016				
7/1/2014	0.0035	0.014							
1/13/2015				0.017		0.034	0.076	0.031	0.024
1/14/2015		0.033	0.01		0.017				
1/21/2015	0.0031								
7/22/2015		0.072	0.0084	0.017					
7/23/2015						0.03	0.05	0.036	0.024
7/28/2015	0.0039				0.016				
1/26/2016									0.026
1/27/2016	0.0026	0.083	0.012	0.016	0.016	0.032	0.092	0.03	
3/29/2016	0.00337 (J)								
3/30/2016		0.0943	0.0136	0.0174	0.0178	0.0349	0.0986	0.0344	0.0293
5/25/2016	0.0028 (J)	0.117	0.00957 (J)	0.0173	0.0169				
5/26/2016						0.0323	0.0687	0.0336	0.0237
7/25/2016						0.031	0.047	0.03	
7/26/2016	0.0023 (J)	0.11	0.0068						0.016
7/27/2016				0.016	0.016				
9/15/2016	0.0026	0.16 (O)							
9/16/2016				0.016					
9/19/2016					0.016	0.028	0.039		
9/20/2016			0.007					0.035	0.014
11/17/2016	0.0027	0.27 (O)	0.0072	0.017	0.017	0.033	0.046	0.034	0.012
1/31/2017	0.0029								
2/1/2017		0.088	0.009	0.018	0.017	0.037			
2/2/2017							0.085	0.035	0.014
3/23/2017	0.0032	0.11	0.011						
3/24/2017				0.017	0.016	0.037	0.079		
3/28/2017								0.031	0.021
5/3/2017	0.0028	0.1	0.0092	0.017	0.016	0.034	0.1		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								0.035	0.02
8/4/2017	0.0032		0.01						
8/7/2017		0.23 (O)		0.017	0.017	0.035	0.06	0.033	0.027
1/25/2018	0.0037	0.1	0.01	0.016	0.015	0.033	0.094		
1/26/2018								0.038	0.032
6/20/2018	0.0035	0.25 (O)	0.011	0.017					0.033
6/21/2018						0.033	0.09	0.031	
6/26/2018					0.017				
1/22/2019	0.0029	0.15	0.012						
1/24/2019					0.016				0.046
1/25/2019				0.019					
1/28/2019						0.037	0.12	0.033	
6/25/2019	0.0069 (J)	0.16	0.0096 (J)	0.018	0.017			0.034	0.046
6/26/2019							0.077		
6/27/2019						0.035			
9/11/2019				0.02	0.018	0.04		0.035	0.028
9/12/2019	0.0054 (J)	0.32					0.058		
9/17/2019			0.0072 (J)						
3/12/2020	0.0026 (J)								
3/16/2020			0.012						
3/17/2020		0.23		0.019	0.017	0.039			
3/18/2020							0.13	0.031	0.056

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	0.025						0.0074		0.0043
9/16/2011		0.011							
9/17/2011				0.016	0.038	0.02		0.01	
10/28/2011							0.0074		
10/29/2011	0.024	0.0075			0.036	0.015			
10/31/2011				0.013				0.0068	0.0035
12/13/2011	0.027	0.011					0.0075		0.0036
12/14/2011				0.018	0.035	0.016			
1/25/2012	0.029					0.016			
1/31/2012		0.009							
2/1/2012									0.0037
2/7/2012				0.033	0.04			0.0016	
2/8/2012							0.0075		
7/17/2012				0.025	0.033	0.0057			0.0038
7/18/2012	0.027	0.0076					0.0068		
1/22/2013	0.029	0.0078							
1/23/2013								0.0038	0.003
1/24/2013					0.034	0.0062	0.0083		
7/16/2013	0.025								
7/23/2013		0.0075							
7/24/2013				0.043	0.036	0.01	0.006		0.0019
1/21/2014	0.027								
1/22/2014		0.004							
1/23/2014				0.025	0.031	0.013	0.0051	0.0045	0.0012 (J)
6/25/2014	0.025								
7/1/2014		0.0066					0.0061	0.0048	0.0014
7/8/2014			0.022	0.046	0.031	0.014			
1/14/2015	0.025								
1/20/2015							0.0061		0.0012 (J)
1/21/2015				0.023	0.031	0.015		0.0022	
1/22/2015		0.0067							
7/23/2015	0.025								
7/29/2015		0.0064							
7/30/2015				0.022		0.0092	0.0059		0.0011 (J)
7/31/2015			0.02		0.017				
1/19/2016							0.0075		
1/20/2016			0.026						
1/21/2016		0.0055		0.028					
1/22/2016						0.0063			
1/25/2016					0.03			0.002	0.001 (J)
1/26/2016	0.023								
3/23/2016						0.0107	0.00731 (J)		<0.01
3/24/2016					0.0362				
3/28/2016				0.0383					
3/29/2016		0.0114							
3/30/2016			0.00874 (J)					0.00491 (J)	
3/31/2016	0.0249								
5/20/2016							0.00703 (J)		
5/24/2016						0.00672 (J)			<0.01
5/25/2016		0.00579 (J)	0.00545 (J)	0.0439	0.0348			0.00502 (J)	
5/26/2016	0.0235								
7/21/2016							0.0067		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									0.0014 (J)
7/26/2016	0.021				0.028	0.0085			
7/27/2016		0.0043	0.0047	0.037				0.0033	
9/16/2016			0.018						0.0018 (J)
9/19/2016				0.041	0.029	0.008			
9/20/2016	0.026	0.0056					0.007		
11/11/2016						0.017			
11/14/2016					0.036		0.007		
11/15/2016				0.033					0.0014 (J)
11/17/2016	0.025								
11/18/2016		0.0043	0.022						
1/19/2017					0.034				
1/20/2017						0.013			
1/24/2017				0.04			0.0075		
1/25/2017								0.0051	
1/26/2017									0.003
2/3/2017	0.027	0.005	0.02						
3/16/2017					0.035	0.0096			
3/17/2017							0.0071		
3/23/2017				0.032				0.0024 (J)	
3/24/2017									0.0021 (J)
3/28/2017	0.024	0.0041							
3/29/2017			0.02						
4/28/2017						0.0097			
5/1/2017					0.03		0.0057		
5/2/2017				0.041				0.0026	0.0025
5/3/2017	0.025								
5/4/2017		0.0063	0.023						
7/19/2017								0.004	
8/3/2017				0.012	0.032	0.015			<0.01 (*)
8/4/2017							0.0072	0.0033	
8/8/2017	0.025	0.006	0.026						
1/19/2018						0.013			
1/22/2018					0.031				
1/23/2018								0.0025	0.0027
1/24/2018							0.0084		
1/25/2018	0.027	0.0048	0.021	0.036					
6/20/2018	0.026	0.0047							
6/21/2018							0.011		
6/26/2018									0.0014 (J)
6/27/2018			0.011	0.036	0.033	0.015		0.0016 (J)	
1/24/2019	0.026			0.03	0.036	0.009			
1/25/2019		0.0069							
1/30/2019							0.013		0.0017 (J)
1/31/2019			0.011					0.0016 (J)	
6/25/2019	0.026			0.032	0.038				
6/26/2019		0.0041 (J)	0.0093 (J)			0.017		<0.01	
6/27/2019							0.0071 (J)		<0.01
9/10/2019	0.027						0.0098 (J)		
9/11/2019			0.02	0.056				0.0055 (J)	
9/12/2019		0.0053 (J)			0.039	0.012			0.002 (J)
3/11/2020							0.0081 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
3/12/2020									
3/13/2020			0.0082 (J)	0.03		0.008 (J)			
3/17/2020					0.035			0.002 (J)	
3/18/2020	0.025	0.0055 (J)							<0.01

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

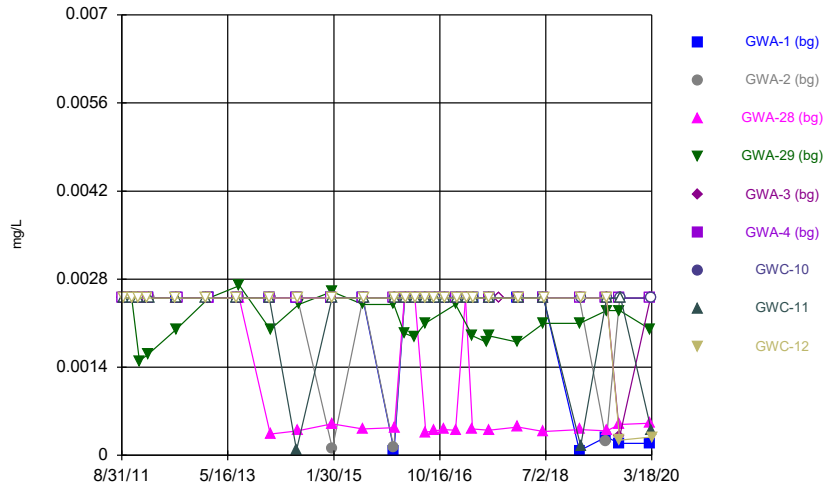
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				0.024	0.064			
9/7/2011						0.06	0.088	0.13
9/16/2011	0.0049	0.01	0.019					
10/27/2011				0.026				
10/30/2011	0.0085				0.06	0.053	0.092	0.02
10/31/2011		0.0089	0.018					
12/4/2011								0.11
12/5/2011				0.024	0.061	0.059	0.11	
12/12/2011		0.011	0.02					
12/13/2011	0.0073							
1/19/2012							0.084	0.15
1/25/2012				0.028	0.064	0.068		
2/1/2012	0.0077	0.011	0.02					
7/16/2012		0.011	0.02					
7/17/2012	0.012							
7/18/2012				0.026		0.098	0.11	0.11
7/24/2012					0.054			
1/7/2013						0.13	0.095	
1/8/2013					0.063			0.14
1/9/2013				0.029				
1/22/2013		0.011	0.021					
1/23/2013	0.012							
7/2/2013			0.019					
7/9/2013					0.051	0.13	0.085	0.13
7/17/2013	0.012	0.011		0.022				
1/14/2014						0.14	0.066	0.099
1/15/2014				0.023	0.06			
1/21/2014			0.02					
1/23/2014	0.0099	0.0097						
6/24/2014						0.13	0.078	0.2
6/25/2014		0.011	0.019	0.02	0.045			
1/13/2015				0.023				
1/14/2015		0.011	0.019					
1/20/2015	0.011				0.048	0.13	0.053	0.12
7/24/2015				0.018	0.051			
7/27/2015						0.11	0.055	0.17
7/28/2015			0.019					
7/29/2015	0.0095	0.011						
1/20/2016				0.027	0.051			
1/21/2016		0.012	0.021					
1/25/2016	0.009							
1/26/2016						0.11	0.044	0.088
3/23/2016	0.00902 (J)							
3/24/2016		0.0132	0.0206					
3/28/2016				0.0207	0.0506			
3/29/2016						0.109	0.05	0.11
5/23/2016		0.0119	0.0221	0.0191				
5/24/2016	0.00573 (J)				0.052	0.0996	0.051	0.17
7/21/2016		0.011	0.019	0.018	0.049			
7/22/2016	0.01					0.089		
7/25/2016								0.17
7/26/2016							0.044	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

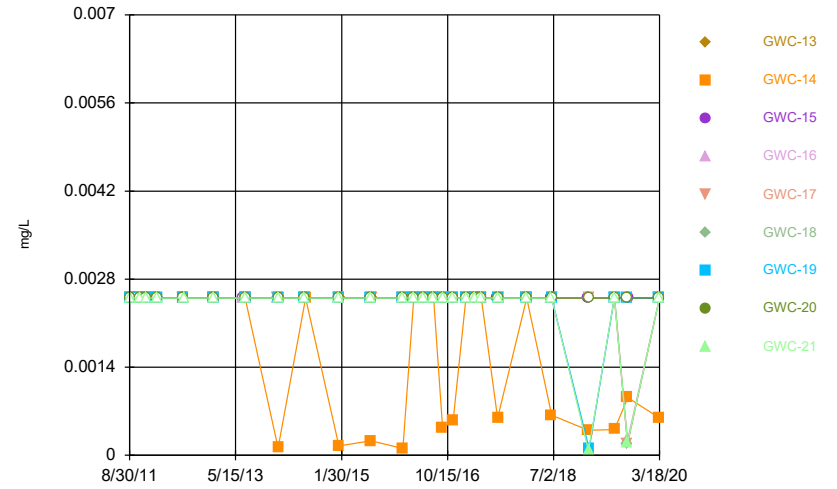
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		0.012	0.02	0.037	0.062	0.097		
9/16/2016	0.0061							
9/19/2016							0.043	0.18
11/15/2016		0.011	0.02	0.024				
11/16/2016					0.062	0.11	0.053	0.18
11/17/2016	0.014							
1/25/2017	<0.01	0.011						
1/26/2017			0.021	0.025	0.062	0.097	0.043	
1/31/2017								0.1
3/22/2017		0.01	0.019	0.02	0.048	0.083		
3/23/2017	0.0096						0.053	0.12
5/1/2017	0.0057	0.012						
5/2/2017			0.02	0.02	0.043	0.088		0.11
5/3/2017							0.047	
8/3/2017		0.031 (O)	0.02	0.025	0.049			
8/4/2017	0.0062					0.088		
8/7/2017							0.048	0.17
1/23/2018	0.0047	0.011	0.019	0.027	0.05	0.094		
1/24/2018							0.038	0.14
6/19/2018			0.02					
6/20/2018		0.012						
6/21/2018							0.058	0.16
6/25/2018				0.02	0.053	0.078		
6/26/2018	0.0067							
1/21/2019			0.022			0.083		
1/22/2019							0.04	0.11
1/28/2019		0.013						
1/30/2019	0.021			0.016	0.054			
6/25/2019						0.075	0.06	0.18
6/26/2019	0.0057 (J)	0.011	0.021	0.02	0.045			
9/10/2019						0.086	0.066	
9/11/2019		0.014						
9/12/2019	0.009 (J)		0.02	0.03	0.074			
9/16/2019								0.18
3/11/2020		0.012	0.02					
3/12/2020	0.0067 (J)					0.072	0.031	
3/16/2020				0.023	0.045			0.079

Time Series



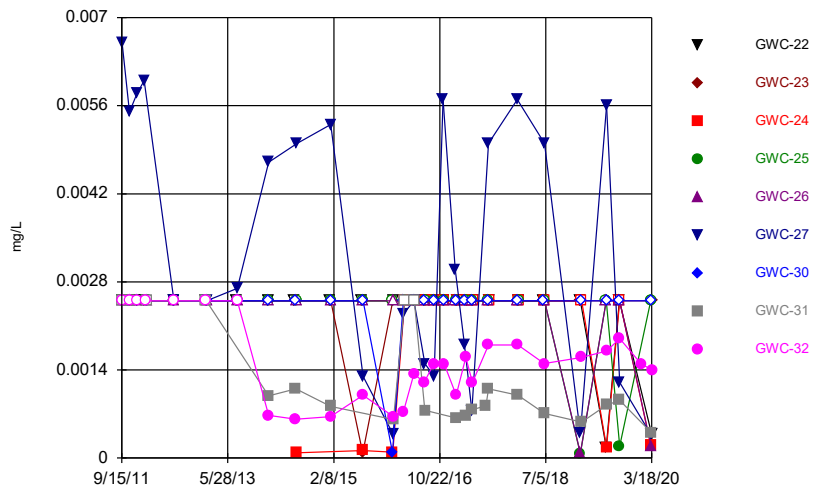
Constituent: Beryllium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



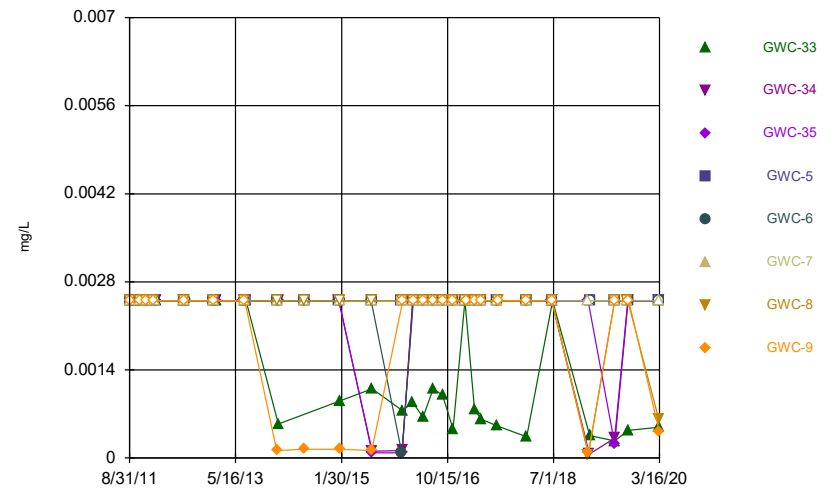
Constituent: Beryllium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Beryllium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Beryllium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.0025	<0.0025			
9/13/2011								<0.0025	<0.0025
9/16/2011	<0.0025		<0.0025						
9/17/2011		<0.0025		<0.0025					
10/27/2011	<0.0025	<0.0025				<0.0025			
10/28/2011			<0.0025	<0.0025				<0.0025	<0.0025
12/4/2011								<0.0025	<0.0025
12/12/2011			<0.0025	0.0015					
12/13/2011	<0.0025								
12/14/2011		<0.0025				<0.0025			
1/24/2012									<0.0025
1/25/2012			<0.0025						
1/31/2012	<0.0025			0.0016					
2/1/2012						<0.0025			
2/7/2012		<0.0025							
2/9/2012								<0.0025	
7/11/2012									<0.0025
7/16/2012			<0.0025						
7/17/2012				0.002					
7/18/2012	<0.0025							<0.0025	
7/23/2012		<0.0025				<0.0025			
1/8/2013								<0.0025	<0.0025
1/23/2013		<0.0025				<0.0025			
1/24/2013	<0.0025		<0.0025	0.0025					
7/9/2013								<0.0025	
7/10/2013									<0.0025
7/17/2013	<0.0025					<0.0025			
7/23/2013			<0.0025						
7/24/2013		<0.0025		0.0027					
1/15/2014						<0.0025		<0.0025	
1/21/2014	<0.0025								<0.0025
1/22/2014		<0.0025	0.00034 (J)	0.002					
6/25/2014	<0.0025				<0.0025	<0.0025		8.3E-05 (J)	
7/1/2014		<0.0025	0.00039 (J)						<0.0025
7/8/2014				0.0024 (D)					
1/14/2015	<0.0025					<0.0025			
1/21/2015			0.0005 (J)	0.0026				<0.0025	<0.0025
1/22/2015		0.00011 (J)							
7/21/2015	<0.0025		0.00042 (J)		<0.0025	<0.0025			
7/22/2015		<0.0025		0.0024					
7/28/2015								<0.0025	<0.0025
1/19/2016				0.0024 (D)					
1/20/2016		0.00012 (J)				<0.0025			
1/21/2016	7.5E-05 (J)								
1/22/2016			0.00044 (J)						
1/25/2016							<0.0025		
1/26/2016								<0.0025	<0.0025
3/22/2016			<0.0025	0.00194 (J)					
3/23/2016	<0.0025	<0.0025				<0.0025			
3/29/2016								<0.0025	<0.0025
3/30/2016							<0.0025		
3/31/2016					<0.0025				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				0.00188 (J)		<0.0025			
5/20/2016	<0.0025								
5/23/2016			<0.0025						
5/24/2016		<0.0025							
5/25/2016					<0.0025		<0.0025	<0.0025	<0.0025
7/21/2016	<0.0025			0.0021 (J)		<0.0025			
7/22/2016									<0.0025
7/25/2016			0.00037 (J)					<0.0025	
7/26/2016		<0.0025							
7/27/2016					<0.0025		<0.0025		
9/14/2016						<0.0025			
9/15/2016	<0.0025		0.00039 (J)						<0.0025
9/16/2016		<0.0025					<0.0025		
9/19/2016								<0.0025	
11/9/2016			0.00041 (J)						
11/10/2016		<0.0025				<0.0025			
11/11/2016	<0.0025								
11/16/2016								<0.0025	<0.0025
11/17/2016							<0.0025		
1/17/2017			0.0004 (J)	0.0024 (J)		<0.0025			
1/19/2017	<0.0025	<0.0025							
1/31/2017								<0.0025	<0.0025
2/1/2017							<0.0025		
3/16/2017	<0.0025		<0.0025			<0.0025			
3/17/2017		<0.0025							
3/23/2017								<0.0025	<0.0025
3/24/2017							<0.0025		
4/27/2017			0.00042 (J)	0.0019 (J)		<0.0025			
4/28/2017	<0.0025	<0.0025						<0.0025	
5/2/2017								<0.0025	
5/3/2017							<0.0025		<0.0025
7/18/2017				0.0018 (J)					
8/1/2017			0.0004 (J)	0.0019 (J)	<0.0025				
8/2/2017		<0.0025				<0.0025			
8/3/2017	<0.0025								
8/7/2017								<0.0025	<0.0025
8/8/2017							<0.0025		
10/3/2017					<0.0025				
1/19/2018	<0.0025	<0.0025	0.00045 (J)	0.0018 (J)					
1/22/2018						<0.0025			
1/24/2018								<0.0025	<0.0025
1/25/2018							<0.0025		
6/19/2018	<0.0025	<0.0025	0.00038 (J)	0.0021 (J)		<0.0025			
6/20/2018					<0.0025			<0.0025	
6/21/2018							<0.0025		
6/26/2018									<0.0025
1/17/2019	7.4E-05 (J)	<0.0025				<0.0025			
1/18/2019				0.0021 (J)	<0.0025				
1/21/2019			0.00041 (J)						
1/24/2019								0.00015 (J)	
1/25/2019									<0.0025
1/31/2019							<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.0025	<0.0025
8/4/2017	<0.0025		<0.0025						
8/7/2017		0.00059 (J)		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/25/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
1/26/2018								<0.0025	<0.0025
6/20/2018	<0.0025	0.00064 (J)	<0.0025	<0.0025					<0.0025
6/21/2018						<0.0025	<0.0025	<0.0025	
6/26/2018					<0.0025				
1/22/2019	<0.0025	0.0004 (J)	<0.0025						
1/24/2019					<0.0025				7.9E-05 (J)
1/25/2019				7.2E-05 (J)					
1/28/2019						<0.0025	0.00011 (J)	<0.0025	
6/25/2019	<0.0025	0.00041 (J)	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
6/26/2019							<0.0025		
6/27/2019						<0.0025			
9/11/2019				0.00024 (J)	0.00018 (J)	0.00019 (J)		<0.0025	0.0002 (J)
9/12/2019	<0.0025	0.00092 (J)					<0.0025		
9/17/2019			<0.0025						
3/12/2020	<0.0025								
3/16/2020			<0.0025						
3/17/2020		0.00059 (J)		<0.0025	<0.0025	<0.0025			
3/18/2020							<0.0025	<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.0025						<0.0025		<0.0025
9/16/2011		<0.0025							
9/17/2011				<0.0025	<0.0025	0.0066		<0.0025	
10/28/2011							<0.0025		
10/29/2011	<0.0025	<0.0025			<0.0025	0.0055			
10/31/2011				<0.0025				<0.0025	<0.0025
12/13/2011	<0.0025	<0.0025					<0.0025		<0.0025
12/14/2011				<0.0025	<0.0025	0.0058			
1/25/2012	<0.0025					0.006			
1/31/2012		<0.0025							
2/1/2012									<0.0025
2/7/2012				<0.0025	<0.0025			<0.0025	
2/8/2012							<0.0025		
7/17/2012				<0.0025	<0.0025	<0.0025			<0.0025
7/18/2012	<0.0025	<0.0025					<0.0025		
1/22/2013	<0.0025	<0.0025							
1/23/2013								<0.0025	<0.0025
1/24/2013					<0.0025	<0.0025	<0.0025		
7/16/2013	<0.0025								
7/23/2013		<0.0025							
7/24/2013				<0.0025	<0.0025	0.0027	<0.0025		<0.0025
1/21/2014	<0.0025								
1/22/2014		<0.0025							
1/23/2014				<0.0025	<0.0025	0.0047	<0.0025	0.00099 (J)	0.00068 (J)
6/25/2014	<0.0025								
7/1/2014		<0.0025					<0.0025	0.0011 (J)	0.00062 (J)
7/8/2014			8.3E-05 (J)	<0.0025	<0.0025	0.005			
1/14/2015	<0.0025								
1/20/2015							<0.0025		0.00066 (J)
1/21/2015				<0.0025	<0.0025	0.0053		0.00082 (J)	
1/22/2015		<0.0025							
7/23/2015	<0.0025								
7/29/2015		8E-05 (J)							
7/30/2015				<0.0025		0.0013	<0.0025		0.001 (J)
7/31/2015			0.00012 (J)		<0.0025				
1/19/2016							9E-05 (J)		
1/20/2016			9.3E-05 (J)						
1/21/2016		<0.0025		<0.0025					
1/22/2016						0.00038 (J)			
1/25/2016					<0.0025			0.00061 (J)	0.00066 (J)
1/26/2016	<0.0025								
3/23/2016						0.00229 (J)	<0.0025		0.000735 (J)
3/24/2016					<0.0025				
3/28/2016				<0.0025					
3/29/2016		<0.0025							
3/30/2016			<0.0025					<0.0025	
3/31/2016	<0.0025								
5/20/2016							<0.0025		
5/24/2016						<0.0025			0.00134 (J)
5/25/2016		<0.0025	<0.0025	<0.0025	<0.0025			<0.0025	
5/26/2016	<0.0025								
7/21/2016							<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

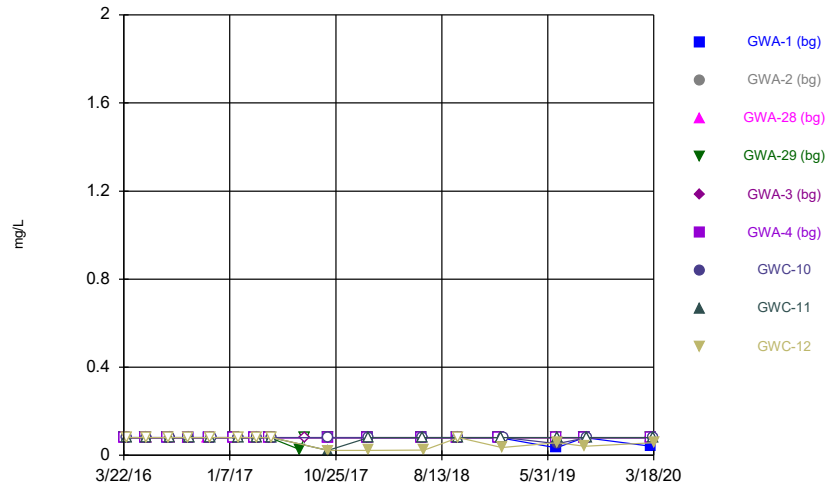
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.0025	<0.0025			
9/7/2011						<0.0025	<0.0025	<0.0025
9/16/2011	<0.0025	<0.0025	<0.0025					
10/27/2011				<0.0025				
10/30/2011	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
10/31/2011		<0.0025	<0.0025					
12/4/2011								<0.0025
12/5/2011				<0.0025	<0.0025	<0.0025	<0.0025	
12/12/2011		<0.0025	<0.0025					
12/13/2011	<0.0025							
1/19/2012							<0.0025	<0.0025
1/25/2012				<0.0025	<0.0025	<0.0025		
2/1/2012	<0.0025	<0.0025	<0.0025					
7/16/2012		<0.0025	<0.0025					
7/17/2012	<0.0025							
7/18/2012				<0.0025		<0.0025	<0.0025	<0.0025
7/24/2012					<0.0025			
1/7/2013						<0.0025	<0.0025	
1/8/2013					<0.0025			<0.0025
1/9/2013				<0.0025				
1/22/2013		<0.0025	<0.0025					
1/23/2013	<0.0025							
7/2/2013			<0.0025					
7/9/2013					<0.0025	<0.0025	<0.0025	<0.0025
7/17/2013	<0.0025	<0.0025		<0.0025				
1/14/2014						<0.0025	<0.0025	0.00012 (J)
1/15/2014				<0.0025	<0.0025			
1/21/2014			<0.0025					
1/23/2014	0.00054 (J)	<0.0025						
6/24/2014						<0.0025	<0.0025	0.00014 (J)
6/25/2014		<0.0025	<0.0025	<0.0025	<0.0025			
1/13/2015				<0.0025				
1/14/2015		<0.0025	<0.0025					
1/20/2015	0.00091 (J)				<0.0025	<0.0025	<0.0025	0.00014 (J)
7/24/2015				<0.0025	<0.0025			
7/27/2015						<0.0025	<0.0025	0.00012 (J)
7/28/2015			8.5E-05 (J)					
7/29/2015	0.0011 (J)	0.00011 (J)						
1/20/2016				<0.0025	7.8E-05 (J)			
1/21/2016		0.00012 (J)	8.5E-05 (J)					
1/25/2016	0.00075 (J)							
1/26/2016						<0.0025	<0.0025	<0.0025
3/23/2016	0.000892 (J)							
3/24/2016		<0.0025	<0.0025					
3/28/2016				<0.0025	<0.0025			
3/29/2016						<0.0025	<0.0025	<0.0025
5/23/2016		<0.0025	<0.0025	<0.0025				
5/24/2016	0.00065 (J)				<0.0025	<0.0025	<0.0025	<0.0025
7/21/2016		<0.0025	<0.0025	<0.0025	<0.0025			
7/22/2016	0.0011 (J)					<0.0025		
7/25/2016								<0.0025
7/26/2016							<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

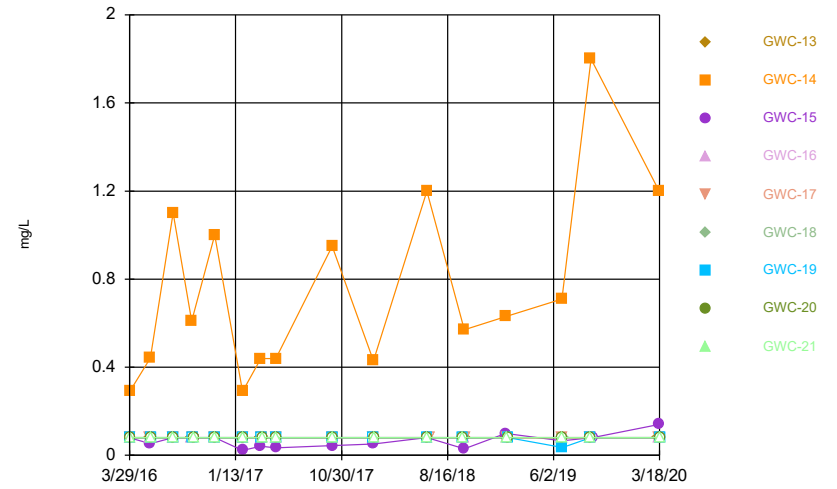
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
9/16/2016	0.001 (J)							
9/19/2016							<0.0025	<0.0025
11/15/2016		<0.0025	<0.0025	<0.0025				
11/16/2016					<0.0025	<0.0025	<0.0025	<0.0025
11/17/2016	0.00046 (J)							
1/25/2017	<0.0025	<0.0025						
1/26/2017			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
1/31/2017								<0.0025
3/22/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
3/23/2017	0.00077 (J)						<0.0025	<0.0025
5/1/2017	0.00062 (J)	<0.0025						
5/2/2017			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
5/3/2017							<0.0025	
8/3/2017		<0.0025	<0.0025	<0.0025	<0.0025			
8/4/2017	0.00051 (J)					<0.0025		
8/7/2017							<0.0025	<0.0025
1/23/2018	0.00034 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
1/24/2018							<0.0025	<0.0025
6/19/2018			<0.0025					
6/20/2018		<0.0025						
6/21/2018							<0.0025	<0.0025
6/25/2018				<0.0025	<0.0025	<0.0025		
6/26/2018	<0.0025							
1/21/2019			<0.0025			<0.0025		
1/22/2019							5.8E-05 (J)	7.9E-05 (J)
1/28/2019		6.1E-05 (J)						
1/30/2019	0.00036 (J)			<0.0025	<0.0025			
6/25/2019						<0.0025	<0.0025	<0.0025
6/26/2019	0.00027 (J)	0.00032 (J)	0.00022 (J)	<0.0025	<0.0025			
9/10/2019						<0.0025	<0.0025	
9/11/2019		<0.0025						
9/12/2019	0.00044 (J)		<0.0025	<0.0025	<0.0025			
9/16/2019								<0.0025
3/11/2020		<0.0025	<0.0025					
3/12/2020	0.00049 (J)					<0.0025	0.00061 (J)	
3/16/2020				<0.0025	<0.0025			0.00041 (J)

Time Series



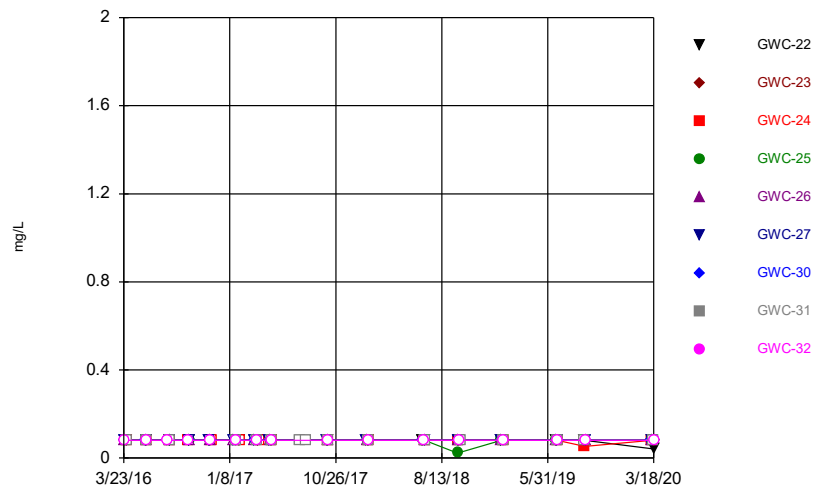
Constituent: Boron, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



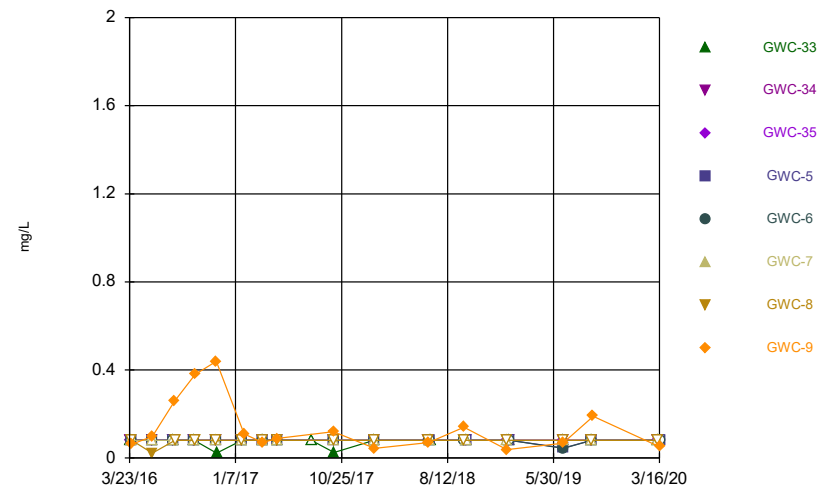
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Boron, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Boron, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			<0.08	<0.08					
3/23/2016	<0.08	<0.08				<0.08			
3/29/2016								<0.08	<0.08
3/30/2016							<0.08		
3/31/2016					<0.08				
5/19/2016				<0.08		<0.08			
5/20/2016	<0.08								
5/23/2016			<0.08						
5/24/2016		<0.08							
5/25/2016					<0.08		<0.08	<0.08	<0.08
7/21/2016	<0.08			<0.08		<0.08			
7/22/2016									<0.08
7/25/2016			<0.08					<0.08	
7/26/2016		<0.08							
7/27/2016					<0.08		<0.08		
9/14/2016						<0.08			
9/15/2016	<0.08		<0.08						<0.08
9/16/2016		<0.08					<0.08		
9/19/2016								<0.08	
11/9/2016			<0.08						
11/10/2016		<0.08				<0.08			
11/11/2016	<0.08								
11/16/2016								<0.08	<0.08
11/17/2016							<0.08		
1/17/2017			<0.08	<0.08		<0.08			
1/19/2017	<0.08	<0.08							
1/31/2017								<0.08	<0.08
2/1/2017							<0.08		
3/16/2017	<0.08		<0.08			<0.08			
3/17/2017		<0.08							
3/23/2017								<0.08	<0.08
3/24/2017							<0.08		
4/27/2017			<0.08	<0.08		<0.08			
4/28/2017	<0.08	<0.08							
5/2/2017								<0.08	
5/3/2017							<0.08		<0.08
7/18/2017				0.027 (J)					
8/1/2017				<0.08	<0.08				
10/3/2017		<0.08	<0.08	<0.08	<0.08	<0.08			
10/4/2017	<0.08						<0.08	0.022 (J)	0.022 (J)
1/19/2018	<0.08	<0.08	<0.08	<0.08					
1/22/2018						<0.08			
1/24/2018								<0.08	0.023 (J)
1/25/2018							<0.08		
6/19/2018	<0.08	<0.08	<0.08	<0.08		<0.08			
6/20/2018					<0.08			<0.08	
6/21/2018							<0.08		
6/26/2018									0.024 (J)
9/25/2018	<0.08	<0.08	<0.08	<0.08		<0.08			
9/27/2018							<0.08	<0.08	
9/28/2018									<0.08
1/17/2019	<0.08	<0.08				<0.08			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	<0.08								
3/30/2016		0.291	0.0787 (J)	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
5/25/2016	<0.08	0.443	0.0536 (J)	<0.08	<0.08				
5/26/2016						<0.08	<0.08	<0.08	<0.08
7/25/2016						<0.08	<0.08	<0.08	
7/26/2016	<0.08	1.1	<0.08						<0.08
7/27/2016				<0.08	<0.08				
9/15/2016	<0.08	0.61							
9/16/2016				<0.08					
9/19/2016					<0.08	<0.08	<0.08		
9/20/2016			<0.08					<0.08	<0.08
11/17/2016	<0.08	1	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1/31/2017	<0.08								
2/1/2017		0.29	0.023 (J)	<0.08	<0.08	<0.08			
2/2/2017							<0.08	<0.08	<0.08
3/23/2017	<0.08	0.44	0.042 (J)						
3/24/2017				<0.08	<0.08	<0.08	<0.08		
3/28/2017								<0.08	<0.08
5/3/2017	<0.08	0.44	0.034 (J)	<0.08	<0.08	<0.08	<0.08		
5/4/2017								<0.08	<0.08
10/4/2017		0.95	0.044 (J)		<0.08				
10/5/2017	<0.08			<0.08		<0.08	<0.08		
10/6/2017								<0.08	<0.08
1/25/2018	<0.08	0.43	0.052	<0.08	<0.08	<0.08	<0.08		
1/26/2018								<0.08	<0.08
6/20/2018	<0.08	1.2	<0.08	<0.08					<0.08
6/21/2018						<0.08	<0.08	<0.08	
6/26/2018					<0.08				
9/27/2018							<0.08	<0.08	<0.08
9/28/2018						<0.08			
10/1/2018		0.57	0.03 (J)	<0.08					
10/2/2018	<0.08				<0.08				
1/22/2019	<0.08	0.63	0.1						
1/24/2019					<0.08				<0.08
1/25/2019				<0.08					
1/28/2019						<0.08	<0.08	<0.08	
6/25/2019	<0.08	0.71	0.066 (J)	<0.08	<0.08			<0.08	<0.08
6/26/2019							0.036 (J)		
6/27/2019						<0.08			
9/11/2019				<0.08	<0.08	<0.08		<0.08	<0.08
9/12/2019	<0.08	1.8					<0.08		
9/17/2019			<0.08						
3/12/2020	<0.08								
3/16/2020			0.14						
3/17/2020		1.2		<0.08	<0.08	<0.08			
3/18/2020							<0.08	<0.08	<0.08

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

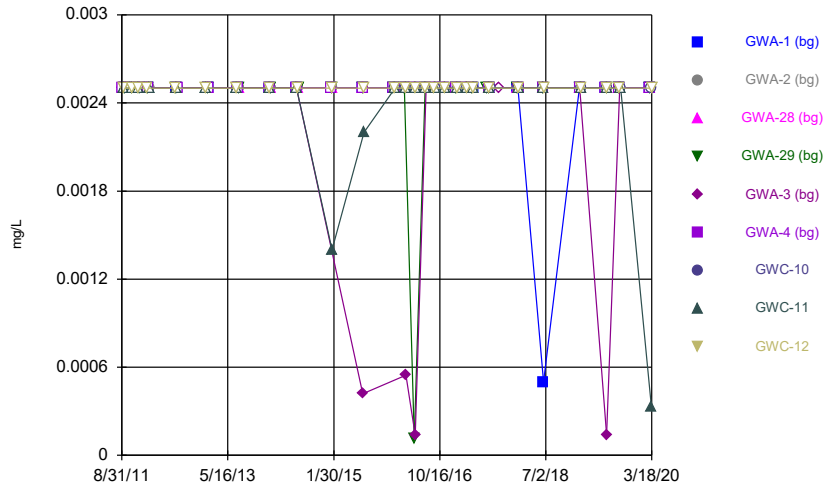
	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
3/23/2016						<0.08	<0.08		<0.08
3/24/2016					<0.08				
3/28/2016				<0.08					
3/29/2016		<0.08							
3/30/2016			<0.08					<0.08	
3/31/2016	<0.08								
5/20/2016							<0.08		
5/24/2016						<0.08			<0.08
5/25/2016		<0.08	<0.08	<0.08	<0.08			<0.08	
5/26/2016	<0.08								
7/21/2016							<0.08		
7/22/2016									<0.08
7/26/2016	<0.08				<0.08	<0.08			
7/27/2016		<0.08	<0.08	<0.08				<0.08	
9/16/2016			<0.08						<0.08
9/19/2016				<0.08	<0.08	<0.08			
9/20/2016	<0.08	<0.08					<0.08		
11/11/2016						<0.08			
11/14/2016					<0.08		<0.08		
11/15/2016				<0.08					<0.08
11/17/2016	<0.08								
11/18/2016		<0.08	<0.08						
1/19/2017					<0.08				
1/20/2017						<0.08			
1/24/2017				<0.08			<0.08		
1/25/2017								<0.08	
1/26/2017									<0.08
2/3/2017	<0.08	<0.08	<0.08						
3/16/2017					<0.08	<0.08			
3/17/2017							<0.08		
3/23/2017				<0.08				<0.08	
3/24/2017									<0.08
3/28/2017	<0.08	<0.08							
3/29/2017			<0.08						
4/28/2017						<0.08			
5/1/2017					<0.08		<0.08		
5/2/2017				<0.08				<0.08	<0.08
5/3/2017	<0.08								
5/4/2017		<0.08	<0.08						
7/19/2017								<0.08	
8/4/2017								<0.08	
10/3/2017						<0.08			
10/4/2017					<0.08		<0.08		
10/5/2017	<0.08	<0.08	<0.08	<0.08					
10/6/2017								<0.08	<0.08
1/19/2018						<0.08			
1/22/2018					<0.08				
1/23/2018								<0.08	<0.08
1/24/2018							<0.08		
1/25/2018	<0.08	<0.08	<0.08	<0.08					
6/20/2018	<0.08	<0.08							
6/21/2018							<0.08		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

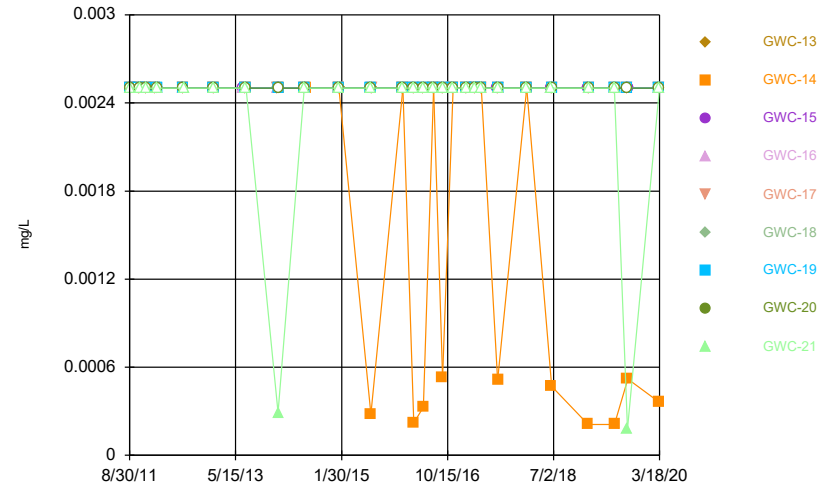
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	<0.08							
3/24/2016		<0.08	<0.08					
3/28/2016				<0.08	<0.08			
3/29/2016						<0.08	<0.08	0.0635 (J)
5/23/2016		<0.08	<0.08	<0.08				
5/24/2016	<0.08				<0.08	<0.08	0.022 (J)	0.0981 (J)
7/21/2016		<0.08	<0.08	<0.08	<0.08			
7/22/2016	<0.08					<0.08		
7/25/2016								0.26
7/26/2016							<0.08	
9/15/2016		<0.08	<0.08	<0.08	<0.08	<0.08		
9/16/2016	<0.08							
9/19/2016							<0.08	0.38
11/15/2016		<0.08	<0.08	<0.08				
11/16/2016					<0.08	<0.08	<0.08	0.44
11/17/2016	0.023 (J)							
1/25/2017	<0.08	<0.08						
1/26/2017			<0.08	<0.08	<0.08	<0.08	<0.08	
1/31/2017								0.11
3/22/2017		<0.08	<0.08	<0.08	<0.08	<0.08		
3/23/2017	<0.08						<0.08	0.071
5/1/2017	<0.08	<0.08						
5/2/2017			<0.08	<0.08	<0.08	<0.08		0.089
5/3/2017							<0.08	
8/4/2017	<0.08							
10/3/2017		<0.08	<0.08	<0.08	<0.08	<0.08		0.12
10/5/2017	0.025 (J)						<0.08	
1/23/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		
1/24/2018							<0.08	0.044 (J)
6/19/2018			<0.08					
6/20/2018		<0.08						
6/21/2018							<0.08	0.07
6/25/2018				<0.08	<0.08	<0.08		
6/26/2018	<0.08							
9/25/2018					<0.08			
9/26/2018							<0.08	0.14
10/1/2018			<0.08					
10/2/2018	<0.08	<0.08				<0.08		
10/3/2018				<0.08				
1/21/2019			<0.08			<0.08		
1/22/2019							<0.08	0.038 (J)
1/28/2019		<0.08						
1/30/2019	<0.08			<0.08	<0.08			
6/25/2019						<0.08	<0.08	0.068 (J)
6/26/2019	<0.08	<0.08	<0.08	0.045 (J)	0.044 (J)			
9/10/2019						<0.08	<0.08	
9/11/2019		<0.08						
9/12/2019	<0.08		<0.08	<0.08	<0.08			
9/16/2019								0.19
3/11/2020		<0.08	<0.08					
3/12/2020	<0.08					<0.08	<0.08	
3/16/2020				<0.08	<0.08			0.052 (J)

Time Series



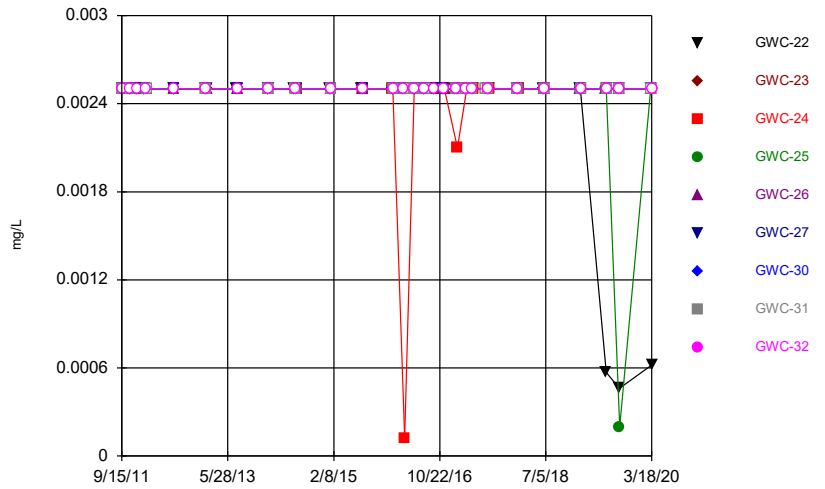
Constituent: Cadmium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



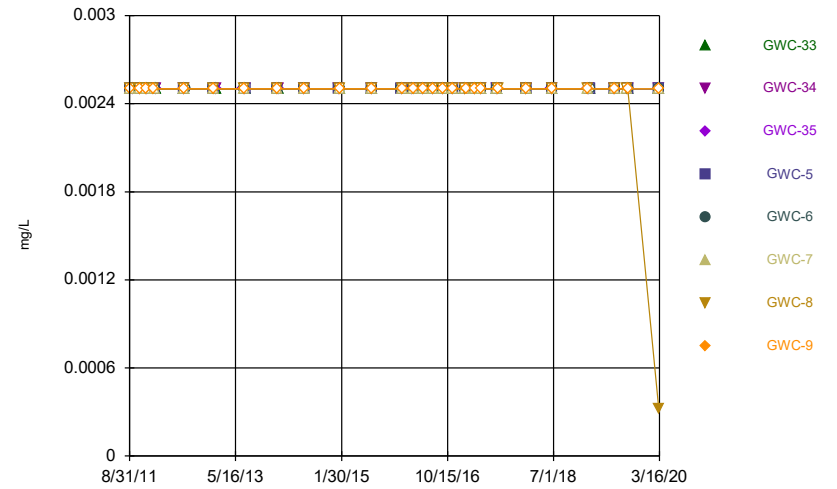
Constituent: Cadmium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Cadmium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Cadmium Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.0025	<0.0025			
9/13/2011								<0.0025	<0.0025
9/16/2011	<0.0025		<0.0025						
9/17/2011		<0.0025		<0.0025					
10/27/2011	<0.0025	<0.0025				<0.0025			
10/28/2011			<0.0025	<0.0025				<0.0025	<0.0025
12/4/2011								<0.0025	<0.0025
12/12/2011			<0.0025	<0.0025					
12/13/2011	<0.0025								
12/14/2011		<0.0025				<0.0025			
1/24/2012									<0.0025
1/25/2012			<0.0025						
1/31/2012	<0.0025			<0.0025					
2/1/2012						<0.0025			
2/7/2012		<0.0025							
2/9/2012								<0.0025	
7/11/2012									<0.0025
7/16/2012			<0.0025						
7/17/2012				<0.0025					
7/18/2012	<0.0025							<0.0025	
7/23/2012		<0.0025				<0.0025			
1/8/2013								<0.0025	<0.0025
1/23/2013		<0.0025				<0.0025			
1/24/2013	<0.0025		<0.0025	<0.0025					
7/9/2013								<0.0025	
7/10/2013									<0.0025
7/17/2013	<0.0025					<0.0025			
7/23/2013			<0.0025						
7/24/2013		<0.0025		<0.0025					
1/15/2014						<0.0025		<0.0025	
1/21/2014	<0.0025								<0.0025
1/22/2014		<0.0025	<0.0025	<0.0025					
6/25/2014	<0.0025				<0.0025	<0.0025		<0.0025	
7/1/2014		<0.0025	<0.0025						<0.0025
7/8/2014				<0.0025 (D)					
1/14/2015	<0.0025					<0.0025			
1/21/2015			<0.0025	<0.0025				0.0014	<0.0025
1/22/2015		<0.0025							
7/21/2015	<0.0025		<0.0025		0.00042 (J)	<0.0025			
7/22/2015		<0.0025		<0.0025					
7/28/2015								0.0022	<0.0025
1/19/2016				<0.0025 (D)					
1/20/2016		<0.0025				<0.0025			
1/21/2016	<0.0025								
1/22/2016			<0.0025						
1/25/2016							<0.0025		
1/26/2016								<0.0025	<0.0025
3/22/2016			<0.0025	<0.0025					
3/23/2016	<0.0025	<0.0025				<0.0025			
3/29/2016								<0.0025	<0.0025
3/30/2016							<0.0025		
3/31/2016					0.000546 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				0.000111 (J)		<0.0025			
5/20/2016	<0.0025								
5/23/2016			<0.0025						
5/24/2016		<0.0025							
5/25/2016					0.000137 (J)		<0.0025	<0.0025	<0.0025
7/21/2016	<0.0025			<0.0025		<0.0025			
7/22/2016									<0.0025
7/25/2016			<0.0025					<0.0025	
7/26/2016		<0.0025							
7/27/2016					<0.0025		<0.0025		
9/14/2016						<0.0025			
9/15/2016	<0.0025		<0.0025						<0.0025
9/16/2016		<0.0025					<0.0025		
9/19/2016								<0.0025	
11/9/2016			<0.0025						
11/10/2016		<0.0025				<0.0025			
11/11/2016	<0.0025								
11/16/2016								<0.0025	<0.0025
11/17/2016							<0.0025		
1/17/2017			<0.0025	<0.0025		<0.0025			
1/19/2017	<0.0025	<0.0025							
1/31/2017								<0.0025	<0.0025
2/1/2017							<0.0025		
3/16/2017	<0.0025		<0.0025			<0.0025			
3/17/2017		<0.0025							
3/23/2017								<0.0025	<0.0025
3/24/2017							<0.0025		
4/27/2017			<0.0025	<0.0025		<0.0025			
4/28/2017	<0.0025	<0.0025						<0.0025	
5/2/2017								<0.0025	
5/3/2017							<0.0025		<0.0025
7/18/2017				<0.0025					
8/1/2017			<0.0025	<0.0025	<0.0025				
8/2/2017		<0.0025				<0.0025			
8/3/2017	<0.0025								
8/7/2017								<0.0025	<0.0025
8/8/2017							<0.0025		
10/3/2017					<0.0025				
1/19/2018	<0.0025	<0.0025	<0.0025	<0.0025					
1/22/2018						<0.0025			
1/24/2018								<0.0025	<0.0025
1/25/2018							<0.0025		
6/19/2018	0.0005 (J)	<0.0025	<0.0025	<0.0025		<0.0025			
6/20/2018					<0.0025			<0.0025	
6/21/2018							<0.0025		
6/26/2018									<0.0025
1/17/2019	<0.0025	<0.0025				<0.0025			
1/18/2019				<0.0025	<0.0025				
1/21/2019			<0.0025						
1/24/2019								<0.0025	
1/25/2019									<0.0025
1/31/2019							<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.0025	<0.0025
8/4/2017	<0.0025		<0.0025						
8/7/2017		0.00051 (J)		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/25/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
1/26/2018								<0.0025	<0.0025
6/20/2018	<0.0025	0.00047 (J)	<0.0025	<0.0025					<0.0025
6/21/2018						<0.0025	<0.0025	<0.0025	
6/26/2018					<0.0025				
1/22/2019	<0.0025	0.00021 (J)	<0.0025						
1/24/2019					<0.0025				<0.0025
1/25/2019				<0.0025					
1/28/2019						<0.0025	<0.0025	<0.0025	
6/25/2019	<0.0025	0.00021 (J)	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
6/26/2019							<0.0025		
6/27/2019						<0.0025			
9/11/2019				<0.0025	<0.0025	<0.0025		<0.0025	0.00018 (J)
9/12/2019	<0.0025	0.00052 (J)					<0.0025		
9/17/2019			<0.0025						
3/12/2020	<0.0025								
3/16/2020			<0.0025						
3/17/2020		0.00036 (J)		<0.0025	<0.0025	<0.0025			
3/18/2020							<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.0025						<0.0025		<0.0025
9/16/2011		<0.0025							
9/17/2011				<0.0025	<0.0025	<0.0025		<0.0025	
10/28/2011							<0.0025		
10/29/2011	<0.0025	<0.0025			<0.0025	<0.0025			
10/31/2011				<0.0025				<0.0025	<0.0025
12/13/2011	<0.0025	<0.0025					<0.0025		<0.0025
12/14/2011				<0.0025	<0.0025	<0.0025			
1/25/2012	<0.0025					<0.0025			
1/31/2012		<0.0025							
2/1/2012									<0.0025
2/7/2012				<0.0025	<0.0025			<0.0025	
2/8/2012							<0.0025		
7/17/2012				<0.0025	<0.0025	<0.0025			<0.0025
7/18/2012	<0.0025	<0.0025					<0.0025		
1/22/2013	<0.0025	<0.0025							
1/23/2013								<0.0025	<0.0025
1/24/2013					<0.0025	<0.0025	<0.0025		
7/16/2013	<0.0025								
7/23/2013		<0.0025							
7/24/2013				<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
1/21/2014	<0.0025								
1/22/2014		<0.0025							
1/23/2014				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/25/2014	<0.0025								
7/1/2014		<0.0025					<0.0025	<0.0025	<0.0025
7/8/2014			<0.0025	<0.0025	<0.0025	<0.0025			
1/14/2015	<0.0025								
1/20/2015							<0.0025		<0.0025
1/21/2015				<0.0025	<0.0025	<0.0025		<0.0025	
1/22/2015		<0.0025							
7/23/2015	<0.0025								
7/29/2015		<0.0025							
7/30/2015				<0.0025		<0.0025	<0.0025		<0.0025
7/31/2015			<0.0025		<0.0025				
1/19/2016							<0.0025		
1/20/2016			<0.0025						
1/21/2016		<0.0025		<0.0025					
1/22/2016						<0.0025			
1/25/2016					<0.0025			<0.0025	<0.0025
1/26/2016	<0.0025								
3/23/2016						<0.0025	<0.0025		<0.0025
3/24/2016					<0.0025				
3/28/2016				<0.0025					
3/29/2016		<0.0025							
3/30/2016			0.000124 (J)					<0.0025	
3/31/2016	<0.0025								
5/20/2016							<0.0025		
5/24/2016						<0.0025			<0.0025
5/25/2016		<0.0025	<0.0025	<0.0025	<0.0025			<0.0025	
5/26/2016	<0.0025								
7/21/2016							<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.0025
7/26/2016	<0.0025				<0.0025	<0.0025			
7/27/2016		<0.0025	<0.0025	<0.0025				<0.0025	
9/16/2016			<0.0025						<0.0025
9/19/2016				<0.0025	<0.0025	<0.0025			
9/20/2016	<0.0025	<0.0025					<0.0025		
11/11/2016						<0.0025			
11/14/2016					<0.0025		<0.0025		
11/15/2016				<0.0025					<0.0025
11/17/2016	<0.0025								
11/18/2016		<0.0025	<0.0025						
1/19/2017					<0.0025				
1/20/2017						<0.0025			
1/24/2017				<0.0025			<0.0025		
1/25/2017								<0.0025	
1/26/2017									<0.0025
2/3/2017	<0.0025	<0.0025	0.0021						
3/16/2017					<0.0025	<0.0025			
3/17/2017							<0.0025		
3/23/2017				<0.0025				<0.0025	
3/24/2017									<0.0025
3/28/2017	<0.0025	<0.0025							
3/29/2017			<0.0025						
4/28/2017						<0.0025			
5/1/2017					<0.0025		<0.0025		
5/2/2017				<0.0025				<0.0025	<0.0025
5/3/2017	<0.0025								
5/4/2017		<0.0025	<0.0025						
7/19/2017								<0.0025	
8/3/2017				<0.0025	<0.0025	<0.0025			<0.0025
8/4/2017							<0.0025	<0.0025	
8/8/2017	<0.0025	<0.0025	<0.0025						
1/19/2018						<0.0025			
1/22/2018					<0.0025				
1/23/2018								<0.0025	<0.0025
1/24/2018							<0.0025		
1/25/2018	<0.0025	<0.0025	<0.0025	<0.0025					
6/20/2018	<0.0025	<0.0025							
6/21/2018							<0.0025		
6/26/2018									<0.0025
6/27/2018			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
1/24/2019	<0.0025			<0.0025	<0.0025	<0.0025			
1/25/2019		<0.0025							
1/30/2019							<0.0025		<0.0025
1/31/2019			<0.0025					<0.0025	
6/25/2019	0.00057 (J)			<0.0025	<0.0025				
6/26/2019		<0.0025	<0.0025			<0.0025		<0.0025	
6/27/2019							<0.0025		<0.0025
9/10/2019	0.00046 (J)						<0.0025		
9/11/2019			<0.0025	0.0002 (J)				<0.0025	
9/12/2019		<0.0025			<0.0025	<0.0025			<0.0025
3/11/2020							<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

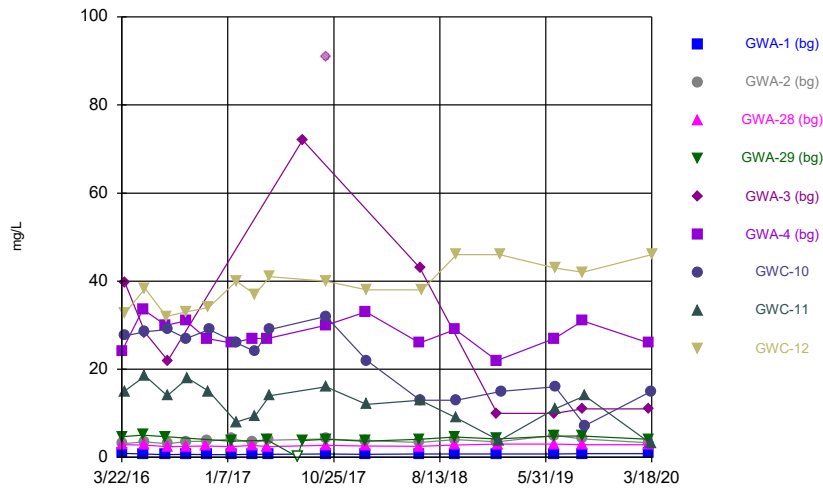
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.0025	<0.0025			
9/7/2011						<0.0025	<0.0025	<0.0025
9/16/2011	<0.0025	<0.0025	<0.0025					
10/27/2011				<0.0025				
10/30/2011	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
10/31/2011		<0.0025	<0.0025					
12/4/2011								<0.0025
12/5/2011				<0.0025	<0.0025	<0.0025	<0.0025	
12/12/2011		<0.0025	<0.0025					
12/13/2011	<0.0025							
1/19/2012							<0.0025	<0.0025
1/25/2012				<0.0025	<0.0025	<0.0025		
2/1/2012	<0.0025	<0.0025	<0.0025					
7/16/2012		<0.0025	<0.0025					
7/17/2012	<0.0025							
7/18/2012				<0.0025		<0.0025	<0.0025	<0.0025
7/24/2012					<0.0025			
1/7/2013						<0.0025	<0.0025	
1/8/2013					<0.0025			<0.0025
1/9/2013				<0.0025				
1/22/2013		<0.0025	<0.0025					
1/23/2013	<0.0025							
7/2/2013			<0.0025					
7/9/2013					<0.0025	<0.0025	<0.0025	<0.0025
7/17/2013	<0.0025	<0.0025		<0.0025				
1/14/2014						<0.0025	<0.0025	<0.0025
1/15/2014				<0.0025	<0.0025			
1/21/2014			<0.0025					
1/23/2014	<0.0025	<0.0025						
6/24/2014						<0.0025	<0.0025	<0.0025
6/25/2014		<0.0025	<0.0025	<0.0025	<0.0025			
1/13/2015				<0.0025				
1/14/2015		<0.0025	<0.0025					
1/20/2015	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
7/24/2015				<0.0025	<0.0025			
7/27/2015						<0.0025	<0.0025	<0.0025
7/28/2015			<0.0025					
7/29/2015	<0.0025	<0.0025						
1/20/2016				<0.0025	<0.0025			
1/21/2016		<0.0025	<0.0025					
1/25/2016	<0.0025							
1/26/2016						<0.0025	<0.0025	<0.0025
3/23/2016	<0.0025							
3/24/2016		<0.0025	<0.0025					
3/28/2016				<0.0025	<0.0025			
3/29/2016						<0.0025	<0.0025	<0.0025
5/23/2016		<0.0025	<0.0025	<0.0025				
5/24/2016	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
7/21/2016		<0.0025	<0.0025	<0.0025	<0.0025			
7/22/2016	<0.0025					<0.0025		
7/25/2016								<0.0025
7/26/2016							<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

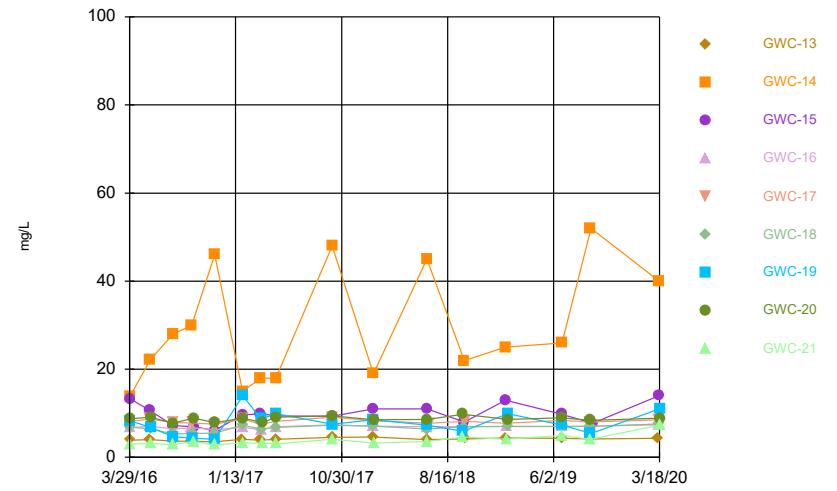
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
9/16/2016	<0.0025							
9/19/2016							<0.0025	<0.0025
11/15/2016		<0.0025	<0.0025	<0.0025				
11/16/2016					<0.0025	<0.0025	<0.0025	<0.0025
11/17/2016	<0.0025							
1/25/2017	<0.0025	<0.0025						
1/26/2017			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
1/31/2017								<0.0025
3/22/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
3/23/2017	<0.0025						<0.0025	<0.0025
5/1/2017	<0.0025	<0.0025						
5/2/2017			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
5/3/2017							<0.0025	
8/3/2017		<0.0025	<0.0025	<0.0025	<0.0025			
8/4/2017	<0.0025					<0.0025		
8/7/2017							<0.0025	<0.0025
1/23/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
1/24/2018							<0.0025	<0.0025
6/19/2018			<0.0025					
6/20/2018		<0.0025						
6/21/2018							<0.0025	<0.0025
6/25/2018				<0.0025	<0.0025	<0.0025		
6/26/2018	<0.0025							
1/21/2019			<0.0025			<0.0025		
1/22/2019							<0.0025	<0.0025
1/28/2019		<0.0025						
1/30/2019	<0.0025			<0.0025	<0.0025			
6/25/2019						<0.0025	<0.0025	<0.0025
6/26/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/10/2019						<0.0025	<0.0025	
9/11/2019		<0.0025						
9/12/2019	<0.0025		<0.0025	<0.0025	<0.0025			
9/16/2019								<0.0025
3/11/2020		<0.0025	<0.0025					
3/12/2020	<0.0025					<0.0025	0.00032 (J)	
3/16/2020				<0.0025	<0.0025			<0.0025

Time Series



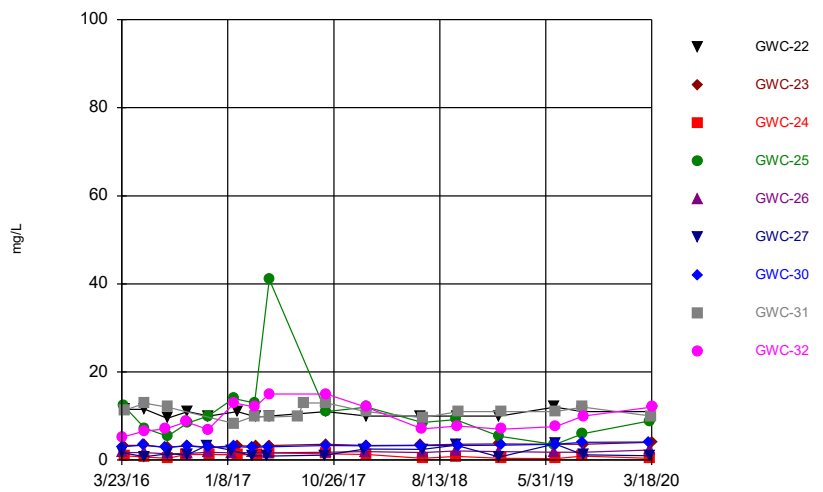
Constituent: Calcium, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



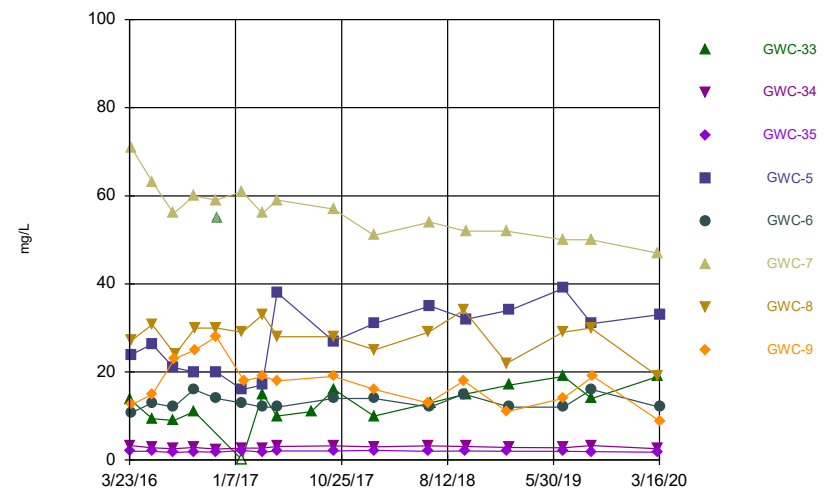
Constituent: Calcium, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Calcium, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Calcium, total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			2.86	4.65					
3/23/2016	0.893	3.09				24.2			
3/29/2016								15	32.6
3/30/2016							27.6		
3/31/2016					39.6				
5/19/2016				5.08		33.6			
5/20/2016	0.784								
5/23/2016			2.81						
5/24/2016		3.51							
5/25/2016					28.3		28.5	18.5	38.3
7/21/2016	0.6			4.7		30			
7/22/2016									32
7/25/2016			2.4					14	
7/26/2016		3.1							
7/27/2016					22		29		
9/14/2016						31			
9/15/2016	0.7		2.5						33
9/16/2016		3.6					27		
9/19/2016								18	
11/9/2016			2.6						
11/10/2016		3.7				27			
11/11/2016	0.59								
11/16/2016								15	34
11/17/2016							29		
1/17/2017			2.4	3.7		26			
1/19/2017	0.59	4.2							
1/31/2017								8	40
2/1/2017							26		
3/16/2017	0.72		2.7			27			
3/17/2017		3.4							
3/23/2017								9.3	37
3/24/2017							24		
4/27/2017			2.4	3.9		27			
4/28/2017	0.72	3.9							
5/2/2017								14	
5/3/2017							29		41
7/18/2017				<0.25 (*)					
8/1/2017				3.8	72				
10/3/2017		4.2	2.7	4.1	91 (o)	30			
10/4/2017	0.73						32	16	40
1/19/2018	0.7	3.8	2.6	3.7					
1/22/2018						33			
1/24/2018								12	38
1/25/2018							22		
6/19/2018	0.75	3.4	2.5	4.1		26			
6/20/2018					43			13	
6/21/2018							13		
6/26/2018									38
9/25/2018	0.73	4	2.8	4.6		29			
9/27/2018							13	9	
9/28/2018									46
1/17/2019	0.74	3.5				22			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	3.91								
3/30/2016		13.8	13.3	6.72	8.15	6.88	8.32	8.78	2.98
5/25/2016	4.06	22.2	10.6	7.09	8.68				
5/26/2016						6.42	6.78	9.13	3.16
7/25/2016						5.3	4.7	7.7	
7/26/2016	3.7	28	7.2						2.9
7/27/2016				6.4	7.9				
9/15/2016	3.7	30							
9/16/2016				6.7					
9/19/2016					7.8	5.4	4.3		
9/20/2016			6.9					8.9	3.6
11/17/2016	3.5	46	6.1	6.3	7.5	5.5	4.1	7.9	2.8
1/31/2017	4.1								
2/1/2017		15	9.6	6.8	8.7	7.3			
2/2/2017							14	8.9	3.3
3/23/2017	3.9	18	9.9						
3/24/2017				6.3	7.5	6.4	8.7		
3/28/2017								7.9	3.2
5/3/2017	4.1	18	9.4	6.9	8.2	6.8	9.9		
5/4/2017								9.1	3.1
10/4/2017		48	9.3		9.1				
10/5/2017	4.5			7.4		7.3	7.5		
10/6/2017								9.4	4.1
1/25/2018	4.6	19	11	7.1	8.3	7.1	8.5		
1/26/2018								8.5	3.2
6/20/2018	4	45	11	6.9					3.6
6/21/2018						6.4	7.3	8.6	
6/26/2018					7.7				
9/27/2018							5.9	9.8	4.6
9/28/2018						6.9			
10/1/2018		22	8	7					
10/2/2018	4.2				8.2				
1/22/2019	4.4	25	13						
1/24/2019					7.7				4.1
1/25/2019				7					
1/28/2019						7	9.9	8.6	
6/25/2019	4.3	26	9.8	7	8.4			9	5
6/26/2019							7.3		
6/27/2019						7			
9/11/2019				7.1	8	7		8.4	4.1
9/12/2019	4.2	52					5.4		
9/17/2019			7.7						
3/12/2020	4.3								
3/16/2020			14						
3/17/2020		40		7.4	8.5	7.6			
3/18/2020							11	8.9	7.3

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
3/23/2016						1.73	3.03		5.18
3/24/2016					1.72				
3/28/2016				12.3					
3/29/2016		3.32							
3/30/2016			1.01					11.3	
3/31/2016	11.5								
5/20/2016							3.37		
5/24/2016						0.745			6.58
5/25/2016		3.4	0.69	7.2	1.68			12.9	
5/26/2016	11.5								
7/21/2016							2.9		
7/22/2016									7.1
7/26/2016	9.5				1.4	1.4			
7/27/2016		2.9	0.4	5.4				12	
9/16/2016			1.3						8.7
9/19/2016				8.4	1.5	1.2			
9/20/2016	11	3.3					3.2		
11/11/2016						3.3			
11/14/2016					1.8		2.8		
11/15/2016				10					6.9
11/17/2016	10								
11/18/2016		2.9	1.3						
1/19/2017					1.6				
1/20/2017						2.2			
1/24/2017				14			3.1		
1/25/2017								8.3	
1/26/2017									13
2/3/2017	11	3.3	1.2						
3/16/2017					1.7	1			
3/17/2017							2.9		
3/23/2017				13				10	
3/24/2017									12
3/28/2017	9.8	3.1							
3/29/2017			1.3						
4/28/2017						0.88			
5/1/2017					1.6		3		
5/2/2017				41				9.8	15
5/3/2017	10								
5/4/2017		3.3	1.6						
7/19/2017								10	
8/4/2017								13	
10/3/2017						1.1			
10/4/2017					1.8		3.3		
10/5/2017	11	3.6	1.4	11					
10/6/2017								13	15
1/19/2018						2.5			
1/22/2018					1.9				
1/23/2018								11	12
1/24/2018							3.2		
1/25/2018	10	3.3	1.3	12					
6/20/2018	10	3.4							
6/21/2018							3.3		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
6/26/2018									7.1
6/27/2018			0.38	8.5	1.7	2.4		9.6	
9/26/2018				9.2					
9/27/2018					2.1	3.4			
9/28/2018			0.81						
10/1/2018	10	3.6							
10/2/2018									7.7
10/3/2018							3.3	11	
1/24/2019	10			5.4	1.9	0.71			
1/25/2019		3.7							
1/30/2019							3.4		7
1/31/2019			0.39					11	
6/25/2019	12			3.5	1.8				
6/26/2019		3.6	0.34 (J)			3.7		11	
6/27/2019							3.6		7.6
9/10/2019	11						4		
9/11/2019			0.9	6				12	
9/12/2019		3.6			1.8	1.2			10
3/11/2020							4.1		
3/12/2020			0.42 (J)	8.9		0.94			
3/13/2020					2.3				
3/17/2020								10	
3/18/2020	11	4							12

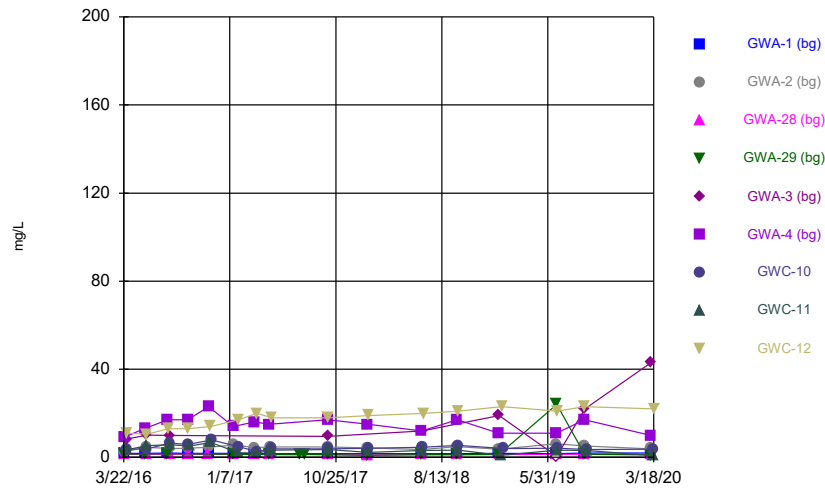
Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

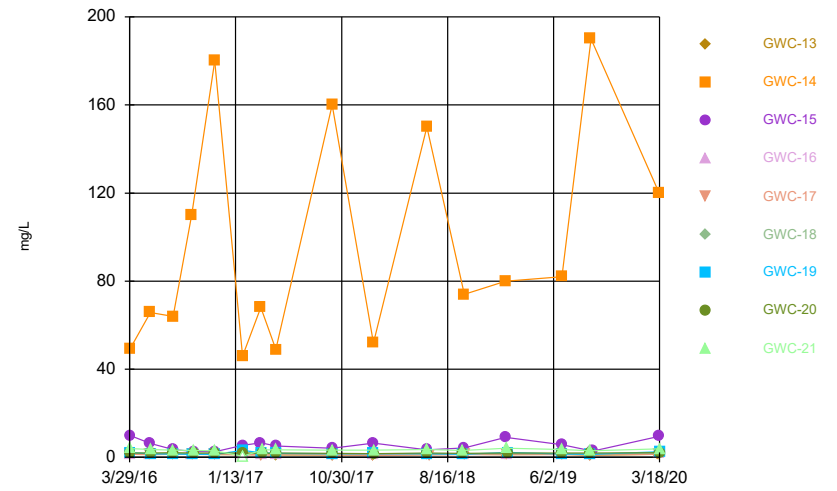
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	13.8							
3/24/2016		3.27	1.97					
3/28/2016				23.9	10.8			
3/29/2016						70.8	27.2	12.6
5/23/2016		2.82	1.97	26.3				
5/24/2016	9.38				13	63.2	30.8	14.9
7/21/2016		2.6	1.7	21	12			
7/22/2016	9					56		
7/25/2016								23
7/26/2016							24	
9/15/2016		2.9	1.9	20	16	60		
9/16/2016	11							
9/19/2016							30	25
11/15/2016		2.5	1.8	20				
11/16/2016					14	59	30	28
11/17/2016	55 (O)							
1/25/2017	<0.25	2.7						
1/26/2017			2.2	16	13	61	29	
1/31/2017								18
3/22/2017		2.7	1.8	17	12	56		
3/23/2017	15						33	19
5/1/2017	10	3.1						
5/2/2017			2.1	38	12	59		18
5/3/2017							28	
8/4/2017	11							
10/3/2017		3.2	2.1	27	14	57		19
10/5/2017	16						28	
1/23/2018	10	3	2.2	31	14	51		
1/24/2018							25	16
6/19/2018			2					
6/20/2018		3.2						
6/21/2018							29	13
6/25/2018				35	12	54		
6/26/2018	13							
9/25/2018					15			
9/26/2018							34	18
10/1/2018			2.1					
10/2/2018	15	3.1				52		
10/3/2018				32				
1/21/2019			2			52		
1/22/2019							22	11
1/28/2019		2.9						
1/30/2019	17			34	12			
6/25/2019						50	29	14
6/26/2019	19	2.8	2	39	12			
9/10/2019						50	30	
9/11/2019		3.3						
9/12/2019	14		1.9	31	16			
9/16/2019								19
3/11/2020		2.6	1.8					
3/12/2020	19					47	19	
3/16/2020				33	12			8.9

Time Series



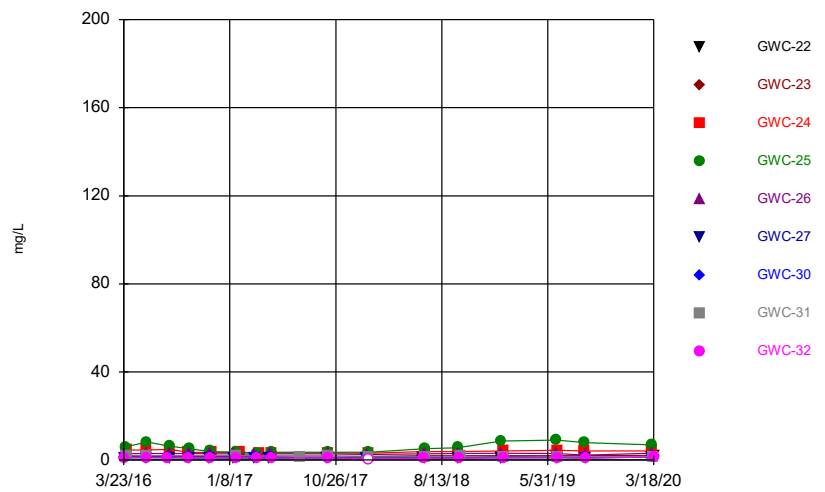
Constituent: Chloride, Total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



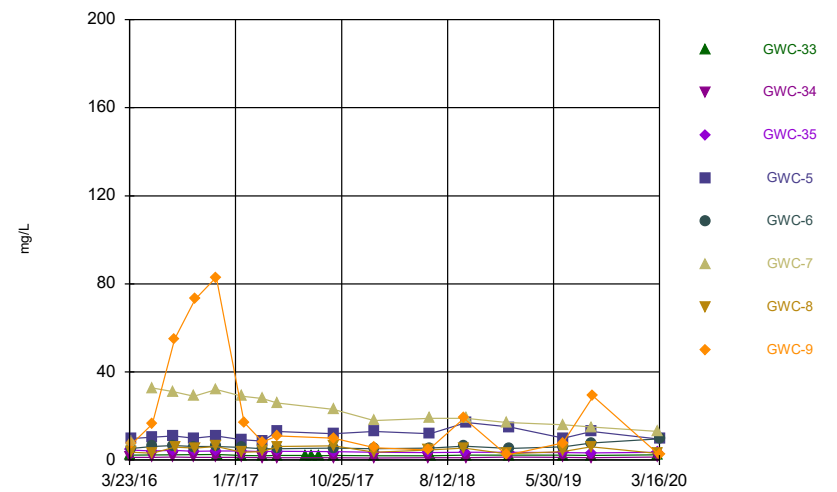
Constituent: Chloride, Total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Chloride, Total Analysis Run 5/20/2020 1:27 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Chloride, Total Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			1.3716	1.5096					
3/23/2016	1.8057	2.5102				9.041			
3/29/2016								3.4214	10.931
3/30/2016							3.7204		
3/31/2016					8.3045				
5/19/2016				1.51		13.1			
5/20/2016	1.84								
5/23/2016			1.33						
5/24/2016		4.52							
5/25/2016					10.1		3.89	5.33	10.5
7/21/2016	1.9			1.6		17			
7/22/2016									13
7/25/2016			1.4					5.8	
7/26/2016		4							
7/27/2016					10		6.5		
9/14/2016						17			
9/15/2016	1.8		1.3						13
9/16/2016		4.1					5.9		
9/19/2016								5.2	
11/9/2016			1.4						
11/10/2016		4.6					23		
11/11/2016	1.8								
11/16/2016								6.7	14
11/17/2016							7.9		
1/17/2017			1.3	1.3		14			
1/19/2017	1.8	5.6							
1/31/2017								2.1	17
2/1/2017							4.9		
3/16/2017	1.7		1.2			16			
3/17/2017		4.4							
3/23/2017								2	20
3/24/2017							2.6		
4/27/2017			1.2	1.4		15			
4/28/2017	1.7	4.7							
5/2/2017								3.3	
5/3/2017							3.9		18
7/18/2017				1.2					
8/1/2017				1.3					
10/3/2017		4.7	1.2	1.2	9.5	17			
10/4/2017	1.7						3.9	3.5	18
1/19/2018	1.6	4.3	1.1	1					
1/22/2018						15			
1/24/2018								2.3	19
1/25/2018							4.2		
6/19/2018	1.7	3.6	1.2	1.2		12			
6/20/2018					12			3.1	
6/21/2018							4.6		
6/26/2018									20
9/25/2018	1.7	4.9	1.2	1.2		17			
9/27/2018							5.4	3.3	
9/28/2018									21
1/17/2019	1.8	3.7				11			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	1.3057								
3/30/2016		49.11	9.921	1.4751	1.3046	1.9012	2.2278	2.0074	3.9326
5/25/2016	1.27	65.8	6.31	1.43	1.31				
5/26/2016						1.78	1.53	2	3.59
7/25/2016						1.7	1.5	2.1	
7/26/2016	1.4	64	3.6						3.3
7/27/2016				1.7	1.4				
9/15/2016	1.3	110							
9/16/2016				1.5					
9/19/2016					1.3	1.6	1.4		
9/20/2016			2.7					2	3.1
11/17/2016	1.2	180	2.5	1.4	1.3	1.5	1.4	1.9	3
1/31/2017	1.2								
2/1/2017		46	5.4	1.4	1.2	1.9			
2/2/2017							3.1	1.9	<1
3/23/2017	1.2	68	6.6						
3/24/2017				1.3	1.1	1.8	2.1		
3/28/2017								1.8	3.4
5/3/2017	1.1	49	5.1	1.3	1.2	1.6	1.8		
5/4/2017								1.9	3.4
10/4/2017		160	4.2		1.1				
10/5/2017	1.1			1.3		1.5	1.6		
10/6/2017								1.8	3.2
1/25/2018	1	52	6.5	1.2	0.99 (J)	1.6	1.7		
1/26/2018								1.6	3.3
6/20/2018	1.2	150	3.4	1.3					3.5
6/21/2018						1.5	1.6	1.9	
6/26/2018					1.1				
9/27/2018							1.3	1.8	3.1
9/28/2018						1.6			
10/1/2018		74	4.3	1.4					
10/2/2018	1.3				1.2				
1/22/2019	1.2	80	9.1						
1/24/2019					1.2				4.1
1/25/2019				1.5					
1/28/2019						1.7	2.2	2	
6/25/2019	1.3	82	5.8	1.5	1.2			1.9	3.5
6/26/2019							1.5		
6/27/2019						1.6			
9/11/2019				1.6	1.1	1.5		1.9	2.9
9/12/2019	1	190					1.3		
9/17/2019			2.8						
3/12/2020	1.3								
3/16/2020			9.5						
3/17/2020		120		1.9	1.3	1.9			
3/18/2020							2.5	2.1	3.8

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
6/27/2018			3.8	5.2	2.8	0.92 (J)		1.5	
9/26/2018				5.6					
9/27/2018					3	1			
9/28/2018			3.8						
10/1/2018	1.6	1.9							
10/2/2018									1
10/3/2018							1.4	1.7	
1/24/2019	1.6			8.7	3.1	1.1			
1/25/2019		2							
1/30/2019							1.2		0.98 (J)
1/31/2019			4.1					1.3	
6/25/2019	1.7			9	3				
6/26/2019		2	4.4			1.1		1.5	
6/27/2019							1.4		1.1
9/10/2019	1.6						1.3		
9/11/2019			4.2	7.9					
9/12/2019		1.9			2.3	0.88 (J)			0.99 (J)
3/11/2020							1.5		
3/12/2020			4.2	6.9		1.3			
3/13/2020					3.1				
3/17/2020								1.6	
3/18/2020	1.8	2.1							1.4

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

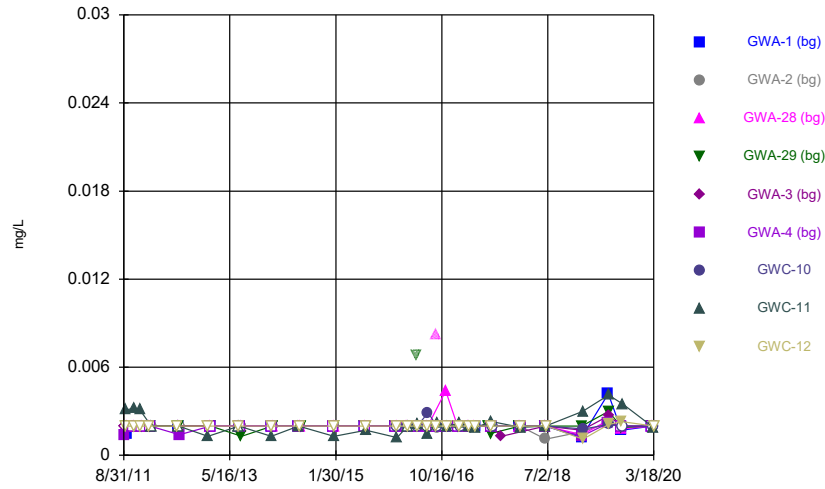
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	2.2604							
3/24/2016		1.2259	4.4998					
3/28/2016				9.818	5.312			
3/29/2016						8.5125 (O)	3.5914	7.395
5/23/2016		1.19	4.19	10.4				
5/24/2016					6.21	32.8	3.16	16.4
7/21/2016		1.3	4.4	11	6.6			
7/22/2016						31		
7/25/2016								55
7/26/2016							5.9	
9/15/2016		1.2	4	10	6.1	29		
9/19/2016							5.4	73
11/15/2016		1.2	4.2	11				
11/16/2016					6.2	32	6.2	83
11/17/2016	2.5							
1/25/2017	2.1	1.2						
1/26/2017			4.2	9.2	5.8	29	3.6	
1/31/2017								17
3/22/2017		1.1	3.9	8.7	5.2	28		
3/23/2017	2						3.9	8.2
5/1/2017	2.1	1.1						
5/2/2017			4	13	5.1	26		11
5/3/2017							6.1	
7/19/2017	2.1							
8/4/2017	1.9							
8/24/2017	1.9							
10/3/2017		1.1	3.8	12	5.4	23		10
10/5/2017	2.1						6.4	
1/23/2018	2	0.95 (J)	3.5	13	5.1	18		
1/24/2018							3.5	5.6
6/19/2018			3.4					
6/20/2018		1.1						
6/21/2018							4.5	4.5
6/25/2018				12	5.5	19		
6/26/2018	2							
9/25/2018					6.3			
9/26/2018							5.4	19
10/1/2018			3.6					
10/2/2018	2.2	1.1				19		
10/3/2018				17				
1/21/2019			3.5			17		
1/22/2019							2.8	2.3
1/28/2019		1.3						
1/30/2019	2.2			15	5.3			
6/25/2019						16	3.9	7.7
6/26/2019	2.2	1.2	3.4	10	6			
9/10/2019						15	6	
9/11/2019		1.1						
9/12/2019	2.1		3.2	13	7.7			
9/16/2019								29
3/11/2020		1.4	3.5					
3/12/2020	2.4					13	2.9	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

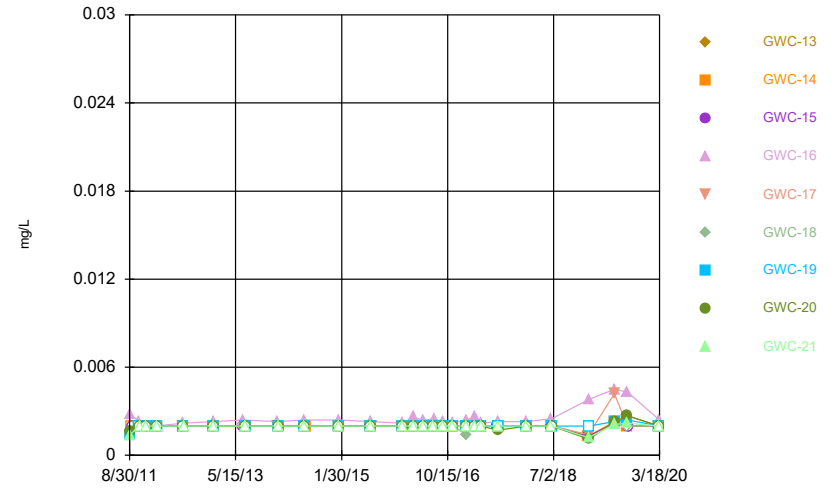
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/16/2020				9.5	9.7			2.3

Time Series



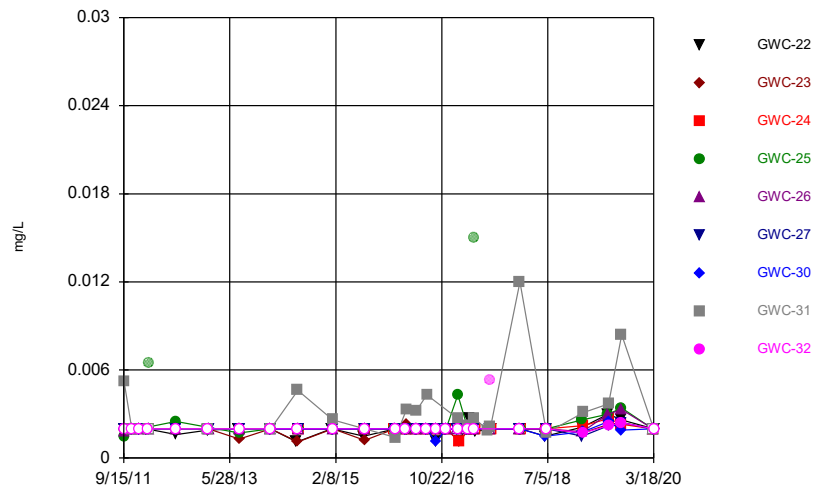
Constituent: Chromium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



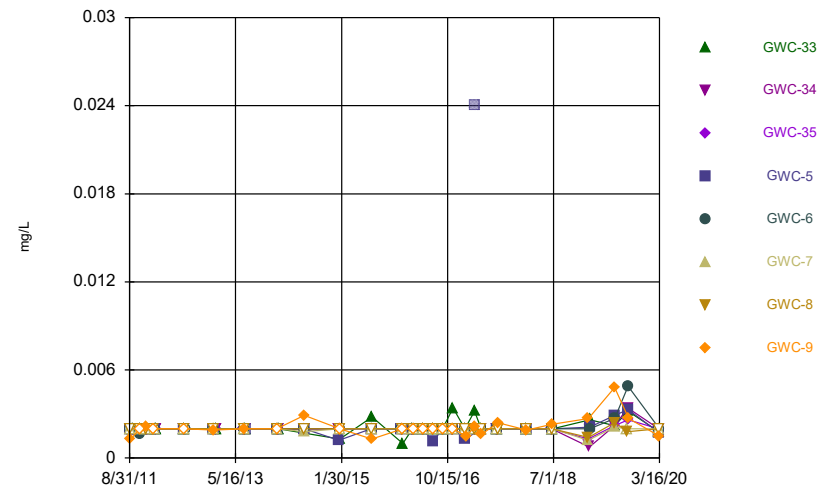
Constituent: Chromium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Chromium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Chromium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.002	0.0014			
9/13/2011								0.0031	<0.002
9/16/2011	0.0015		<0.002						
9/17/2011		<0.002		<0.002					
10/27/2011	<0.002	<0.002				<0.002			
10/28/2011			<0.002	<0.002				0.0032	<0.002
12/4/2011								0.0031	<0.002
12/12/2011			<0.002	<0.002					
12/13/2011	<0.002								
12/14/2011		<0.002				<0.002			
1/24/2012									<0.002
1/25/2012			<0.002						
1/31/2012	<0.002			<0.002					
2/1/2012						<0.002			
2/7/2012		<0.002							
2/9/2012								<0.002	
7/11/2012									<0.002
7/16/2012			<0.002						
7/17/2012				<0.002					
7/18/2012	<0.002							<0.002	
7/23/2012		<0.002				0.0014			
1/8/2013								0.0013	<0.002
1/23/2013		<0.002				<0.002			
1/24/2013	<0.002		<0.002	<0.002					
7/9/2013								<0.002	
7/10/2013									<0.002
7/17/2013	<0.002					<0.002			
7/23/2013			<0.002						
7/24/2013		<0.002		0.0013					
1/15/2014						<0.002		0.0013	
1/21/2014	<0.002								<0.002
1/22/2014		<0.002	0.002	<0.002					
6/25/2014	<0.002				<0.002	<0.002		0.002	
7/1/2014		<0.002	<0.002						<0.002
7/8/2014				<0.002 (D)					
1/14/2015	<0.002					<0.002			
1/21/2015			<0.002	<0.002				0.0013	<0.002
1/22/2015		<0.002							
7/21/2015	<0.002		<0.002		<0.002	<0.002			
7/22/2015		<0.002		<0.002					
7/28/2015								0.0017	<0.002
1/19/2016				<0.002 (D)					
1/20/2016		<0.002				<0.002			
1/21/2016	<0.002								
1/22/2016			<0.002						
1/25/2016							<0.002		
1/26/2016								0.0012 (J)	<0.002
3/22/2016			<0.002	<0.002					
3/23/2016	<0.002	<0.002				<0.002			
3/29/2016								<0.002	<0.002
3/30/2016							<0.002		
3/31/2016					<0.002				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				0.00684 (JO)		<0.002			
5/20/2016	<0.002								
5/23/2016			<0.002						
5/24/2016		<0.002							
5/25/2016					<0.002		<0.002	0.00213 (J)	<0.002
7/21/2016	<0.002			<0.002		<0.002			
7/22/2016									<0.002
7/25/2016			<0.002					0.0015 (J)	
7/26/2016		<0.002							
7/27/2016					<0.002		0.0029		
9/14/2016						<0.002			
9/15/2016	<0.002		0.0082 (O)						<0.002
9/16/2016		0.0019 (J)					<0.002		
9/19/2016								0.0022 (J)	
11/9/2016			0.0044						
11/10/2016		<0.002				<0.002			
11/11/2016	<0.002								
11/16/2016								0.002 (JB)	<0.002
11/17/2016							<0.002		
1/17/2017			<0.002	<0.002		<0.002			
1/19/2017	<0.002	<0.002							
1/31/2017								0.0022 (J)	<0.002
2/1/2017							<0.002		
3/16/2017	<0.002		<0.002			<0.002			
3/17/2017		<0.002							
3/23/2017								0.002 (J)	<0.002
3/24/2017							<0.002		
4/27/2017			<0.002	<0.002		<0.002			
4/28/2017	<0.002	<0.002						0.0019 (J)	
5/2/2017							<0.002		<0.002
5/3/2017									
7/18/2017				<0.002					
8/1/2017			<0.002	0.0015 (J)	<0.002				
8/2/2017		<0.002				<0.002			
8/3/2017	<0.002								
8/7/2017								0.0023 (J)	<0.002
8/8/2017							<0.002		
10/3/2017					0.0013 (J)				
1/19/2018	<0.002	<0.002	<0.002	<0.002					
1/22/2018						<0.002			
1/24/2018								0.0019 (J)	<0.002
1/25/2018							<0.002		
6/19/2018	<0.002	0.0011 (J)	<0.002	<0.002		<0.002			
6/20/2018					<0.002			0.002 (J)	
6/21/2018							<0.002		
6/26/2018									<0.002
1/17/2019	0.0012 (J)	0.0016 (J)				0.0013 (J)			
1/18/2019				0.002 (J)	0.0017 (J)				
1/21/2019			0.0014 (J)						
1/24/2019								0.003	
1/25/2019									0.0011 (J)
1/31/2019							0.0018 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				0.0028	0.0014	0.0014	0.0014		
8/31/2011								0.0016	0.0014
9/13/2011	0.0019	<0.002							
9/16/2011			<0.002						
10/26/2011				0.0023	<0.002	<0.002	<0.002		
10/27/2011		<0.002	<0.002					<0.002	<0.002
10/28/2011	<0.002								
12/3/2011		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
12/4/2011	<0.002							<0.002	<0.002
1/24/2012	<0.002	<0.002							
1/25/2012				<0.002	<0.002				
2/8/2012			<0.002			<0.002	<0.002	<0.002	<0.002
7/11/2012	<0.002	<0.002	<0.002	0.0022	<0.002	<0.002	<0.002	<0.002	
7/17/2012									<0.002
1/8/2013	<0.002	<0.002	<0.002	0.0023	<0.002	<0.002	<0.002	<0.002	
1/9/2013									<0.002
7/2/2013			<0.002	0.0024					
7/10/2013	<0.002	<0.002							
7/16/2013					<0.002	<0.002	<0.002	<0.002	<0.002
1/14/2014				0.0023	<0.002	<0.002			
1/21/2014	<0.002	<0.002	<0.002				<0.002	<0.002	<0.002
6/24/2014			<0.002			<0.002	<0.002	<0.002	<0.002
6/25/2014				0.0024	<0.002				
7/1/2014	<0.002	<0.002							
1/13/2015				0.0024		<0.002	<0.002	<0.002	<0.002
1/14/2015		<0.002	<0.002		<0.002				
1/21/2015	<0.002								
7/22/2015		<0.002	<0.002	0.0023					
7/23/2015						<0.002	<0.002	<0.002	<0.002
7/28/2015	<0.002				<0.002				
1/26/2016									<0.002
1/27/2016	<0.002	<0.002	<0.002	0.0022	<0.002	<0.002	<0.002	<0.002	
3/29/2016	<0.002								
3/30/2016		<0.002	<0.002	0.00261 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
5/25/2016	<0.002	<0.002	<0.002	0.00238 (J)	<0.002				
5/26/2016						<0.002	<0.002	<0.002	<0.002
7/25/2016						<0.002	<0.002	<0.002	
7/26/2016	<0.002	<0.002	<0.002						<0.002
7/27/2016				0.0025	<0.002				
9/15/2016	<0.002	<0.002							
9/16/2016				0.0023 (J)					
9/19/2016					<0.002	<0.002	<0.002		
9/20/2016			<0.002					<0.002	<0.002
11/17/2016	<0.002	<0.002	<0.002	0.0022 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
1/31/2017	<0.002								
2/1/2017		<0.002	<0.002	0.0024 (J)	<0.002	0.0014 (J)			
2/2/2017							<0.002	<0.002	<0.002
3/23/2017	<0.002	<0.002	<0.002						
3/24/2017				0.0026	<0.002	<0.002	<0.002		
3/28/2017								<0.002	<0.002
5/3/2017	<0.002	<0.002	<0.002	0.0022 (J)	<0.002	<0.002	<0.002		
5/4/2017								<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/4/2017	<0.002		<0.002						
8/7/2017		<0.002		0.0023 (J)	<0.002	<0.002	<0.002	0.0017 (J)	<0.002
1/25/2018	<0.002	<0.002	<0.002	0.0023 (J)	<0.002	<0.002	<0.002		
1/26/2018								<0.002	<0.002
6/20/2018	<0.002	<0.002	<0.002	0.0025					<0.002
6/21/2018						<0.002	<0.002	<0.002	
6/26/2018					<0.002				
1/22/2019	0.0013 (J)	0.0013 (J)	0.0013 (J)						
1/24/2019					0.0014 (J)				0.0012 (J)
1/25/2019				0.0038					
1/28/2019						0.0012 (J)	<0.002	0.0011 (J)	
6/25/2019	0.0022	0.0023	0.0022	0.0045	0.0042			0.0023	0.0021
6/26/2019							0.0023		
6/27/2019						0.0022			
9/11/2019				0.0043	<0.002	<0.002		0.0027	0.0022
9/12/2019	0.0027	0.002					0.0024		
9/17/2019			<0.002						
3/12/2020	<0.002								
3/16/2020			<0.002						
3/17/2020		<0.002		0.0024	<0.002	<0.002			
3/18/2020							<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.002						<0.002		<0.002
9/16/2011		0.0019							
9/17/2011				0.0015	0.0018	<0.002		0.0052	
10/28/2011							<0.002		
10/29/2011	<0.002	<0.002			<0.002	<0.002			
10/31/2011				<0.002				<0.002	<0.002
12/13/2011	<0.002	<0.002					<0.002		<0.002
12/14/2011				<0.002	<0.002	<0.002			
1/25/2012	<0.002					<0.002			
1/31/2012		<0.002							
2/1/2012									<0.002
2/7/2012				0.0065 (O)	<0.002			<0.002	
2/8/2012							<0.002		
7/17/2012				0.0025	<0.002	<0.002			<0.002
7/18/2012	0.0016	<0.002					<0.002		
1/22/2013	0.0019	<0.002							
1/23/2013								<0.002	<0.002
1/24/2013					<0.002	<0.002	<0.002		
7/16/2013	<0.002								
7/23/2013		0.0013							
7/24/2013				0.0017	<0.002	<0.002	<0.002		<0.002
1/21/2014	<0.002								
1/22/2014		<0.002							
1/23/2014				<0.002	<0.002	<0.002	<0.002	0.002	<0.002
6/25/2014	0.0011 (J)								
7/1/2014		0.0011 (J)					<0.002	0.0046	<0.002
7/8/2014			<0.002	<0.002	<0.002	<0.002			
1/14/2015	<0.002								
1/20/2015							<0.002		<0.002
1/21/2015				<0.002	<0.002	<0.002		0.0026	
1/22/2015		<0.002							
7/23/2015	0.0015								
7/29/2015		0.0012 (J)							
7/30/2015				<0.002		<0.002	<0.002		<0.002
7/31/2015			<0.002		<0.002				
1/19/2016							<0.002		
1/20/2016			<0.002						
1/21/2016		<0.002		0.002					
1/22/2016						<0.002			
1/25/2016					<0.002			0.0014	<0.002
1/26/2016	<0.002								
3/23/2016						<0.002	<0.002		<0.002
3/24/2016					<0.002				
3/28/2016				<0.002					
3/29/2016		0.00226 (J)							
3/30/2016			<0.002					0.00334 (J)	
3/31/2016	<0.002								
5/20/2016							<0.002		
5/24/2016						<0.002			<0.002
5/25/2016		<0.002	<0.002	<0.002	<0.002			0.00321 (J)	
5/26/2016	<0.002								
7/21/2016							<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.002
7/26/2016	<0.002				<0.002	<0.002			
7/27/2016		<0.002	<0.002	<0.002				0.0043	
9/16/2016			<0.002						<0.002
9/19/2016				<0.002	<0.002	<0.002			
9/20/2016	0.0011 (J)	<0.002					0.0011 (J)		
11/11/2016						<0.002			
11/14/2016					<0.002		<0.002		
11/15/2016				<0.002					<0.002
11/17/2016	<0.002								
11/18/2016		<0.002	<0.002						
1/19/2017					<0.002				
1/20/2017						<0.002			
1/24/2017				0.0043			<0.002		
1/25/2017								0.0027	
1/26/2017									<0.002
2/3/2017	0.0011 (J)	<0.002	0.0011 (J)						
3/16/2017					<0.002	<0.002			
3/17/2017							<0.002		
3/23/2017				<0.002				0.0022 (J)	
3/24/2017									<0.002
3/28/2017	0.0027	<0.002							
3/29/2017			<0.002						
4/28/2017						<0.002			
5/1/2017					<0.002		<0.002		
5/2/2017				0.015 (O)				0.0027	<0.002
5/3/2017	0.0018 (J)								
5/4/2017		<0.002	<0.002						
7/19/2017								0.0019 (J)	
8/3/2017				<0.002	<0.002	<0.002			0.0053 (O)
8/4/2017							<0.002	0.0021 (J)	
8/8/2017	<0.002	<0.002	<0.002						
1/19/2018						<0.002			
1/22/2018					<0.002				
1/23/2018								0.012	<0.002
1/24/2018							<0.002		
1/25/2018	<0.002	<0.002	<0.002	<0.002					
6/20/2018	0.0015 (J)	<0.002							
6/21/2018							0.0015 (J)		
6/26/2018									<0.002
6/27/2018			<0.002	<0.002	<0.002	<0.002		0.0017 (J)	
1/24/2019	0.0021 (J)			0.0026	0.0018 (J)	0.0015 (J)			
1/25/2019		0.0017 (J)							
1/30/2019							0.0018 (J)		0.0017 (J)
1/31/2019			0.0022 (J)					0.0031	
6/25/2019	0.003			0.003	0.003				
6/26/2019		0.0023	0.0027			0.0022		0.0037	
6/27/2019							0.0025		0.0022
9/10/2019	0.0026						0.0019 (J)		
9/11/2019			0.0023	0.0034				0.0084	
9/12/2019		0.0024			0.0033	0.0024			0.0024
3/11/2020							<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

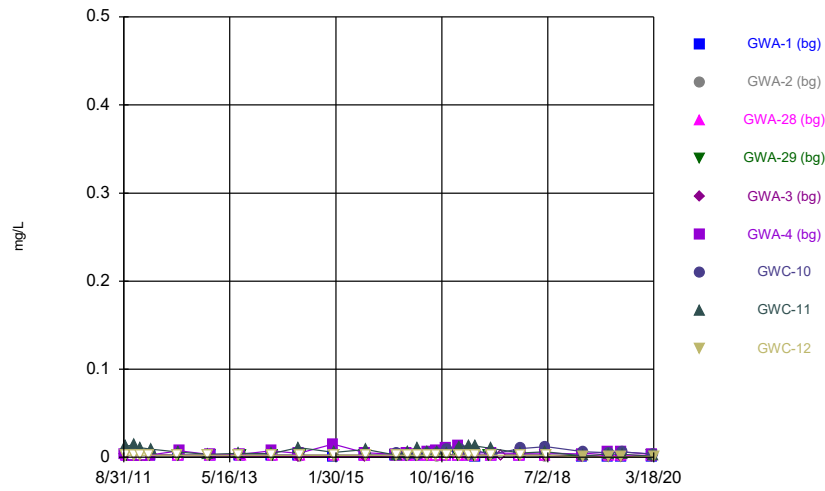
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.002	<0.002			
9/7/2011						<0.002	<0.002	0.0013
9/16/2011	<0.002	<0.002	<0.002					
10/27/2011				<0.002				
10/30/2011	<0.002				0.0016	<0.002	<0.002	<0.002
10/31/2011		<0.002	<0.002					
12/4/2011								0.0021
12/5/2011				<0.002	<0.002	<0.002	<0.002	
12/12/2011		<0.002	<0.002					
12/13/2011	<0.002							
1/19/2012							<0.002	<0.002
1/25/2012				<0.002	<0.002	<0.002		
2/1/2012	<0.002	<0.002	<0.002					
7/16/2012		<0.002	<0.002					
7/17/2012	<0.002							
7/18/2012				<0.002		<0.002	<0.002	<0.002
7/24/2012					<0.002			
1/7/2013						<0.002	<0.002	
1/8/2013					<0.002			0.0019
1/9/2013				<0.002				
1/22/2013		<0.002	<0.002					
1/23/2013	<0.002							
7/2/2013			<0.002					
7/9/2013					<0.002	<0.002	<0.002	0.002
7/17/2013	<0.002	<0.002		<0.002				
1/14/2014						<0.002	<0.002	<0.002
1/15/2014				<0.002	<0.002			
1/21/2014			<0.002					
1/23/2014	<0.002	<0.002						
6/24/2014						0.0018	<0.002	0.0029
6/25/2014		<0.002	<0.002	<0.002	<0.002			
1/13/2015				0.0012 (J)				
1/14/2015		<0.002	<0.002					
1/20/2015	0.0013				<0.002	<0.002	<0.002	<0.002
7/24/2015				<0.002	<0.002			
7/27/2015						<0.002	<0.002	0.0013
7/28/2015			<0.002					
7/29/2015	0.0028	<0.002						
1/20/2016				<0.002	<0.002			
1/21/2016		<0.002	<0.002					
1/25/2016	0.001 (J)							
1/26/2016						<0.002	<0.002	<0.002
3/23/2016	<0.002							
3/24/2016		<0.002	<0.002					
3/28/2016				<0.002	<0.002			
3/29/2016						<0.002	<0.002	<0.002
5/23/2016		<0.002	<0.002	<0.002				
5/24/2016	<0.002				<0.002	<0.002	<0.002	<0.002
7/21/2016		<0.002	<0.002	0.0011 (J)	<0.002			
7/22/2016	<0.002					<0.002		
7/25/2016								<0.002
7/26/2016							<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

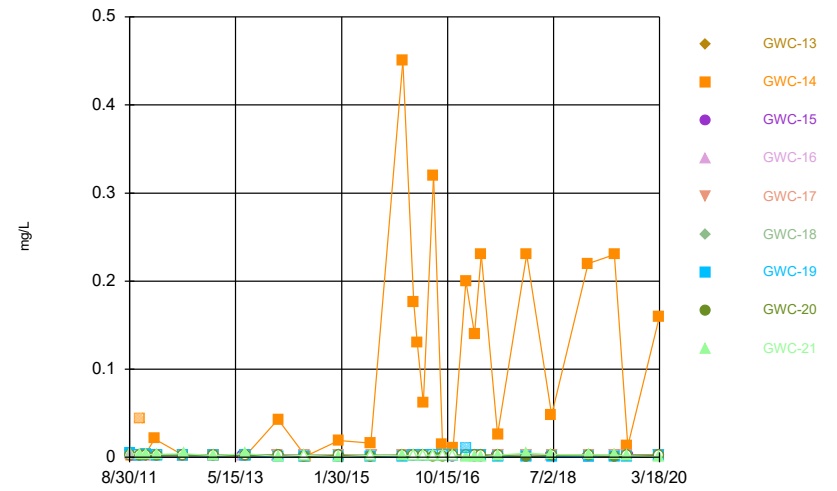
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.002	<0.002	<0.002	<0.002	<0.002		
9/16/2016	<0.002							
9/19/2016							<0.002	<0.002
11/15/2016		<0.002	<0.002	<0.002				
11/16/2016					<0.002	<0.002	<0.002	<0.002
11/17/2016	0.0034							
1/25/2017	<0.002	<0.002						
1/26/2017			<0.002	0.0013 (J)	<0.002	<0.002	<0.002	
1/31/2017								0.0015 (J)
3/22/2017		<0.002	<0.002	0.024 (O)	<0.002	<0.002		
3/23/2017	0.0032						<0.002	0.0021 (J)
5/1/2017	<0.002	<0.002						
5/2/2017			<0.002	<0.002	<0.002	<0.002		0.0016 (J)
5/3/2017							<0.002	
8/3/2017		<0.002	<0.002	<0.002	<0.002			
8/4/2017	<0.002					<0.002		
8/7/2017							<0.002	0.0024 (J)
1/23/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/24/2018							<0.002	0.0019 (J)
6/19/2018			<0.002					
6/20/2018		<0.002						
6/21/2018							<0.002	0.0023 (J)
6/25/2018				<0.002	<0.002	<0.002		
6/26/2018	<0.002							
1/21/2019			0.0013 (J)			0.0012 (J)		
1/22/2019							0.0014 (J)	0.0027
1/28/2019		0.00076 (J)						
1/30/2019	0.0026			0.0021 (J)	0.002 (J)			
6/25/2019						0.0021	0.0024	0.0048
6/26/2019	0.0022	0.0022	0.0022	0.0029	0.0027			
9/10/2019						<0.002	0.0018 (J)	
9/11/2019		0.0034						
9/12/2019	0.0032		0.0026	0.0033	0.0049			
9/16/2019								0.0027
3/11/2020		<0.002	<0.002					
3/12/2020	0.0018 (J)					<0.002	<0.002	
3/16/2020				0.0017 (J)	<0.002			0.0015 (J)

Time Series



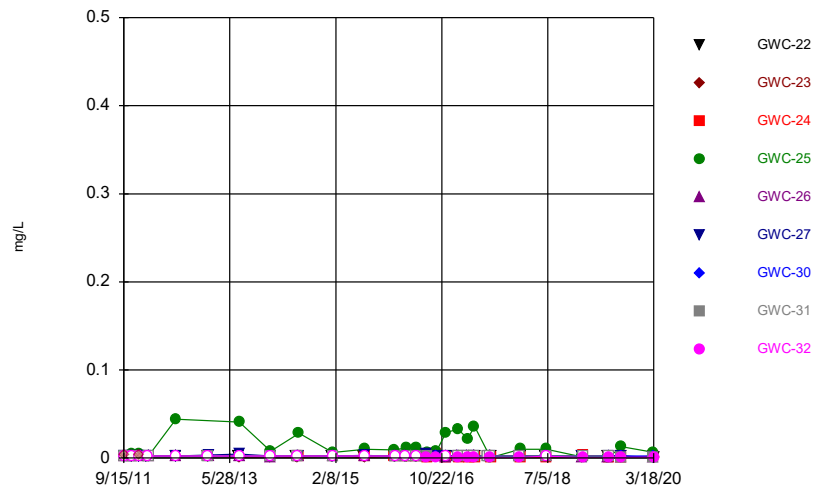
Constituent: Cobalt Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



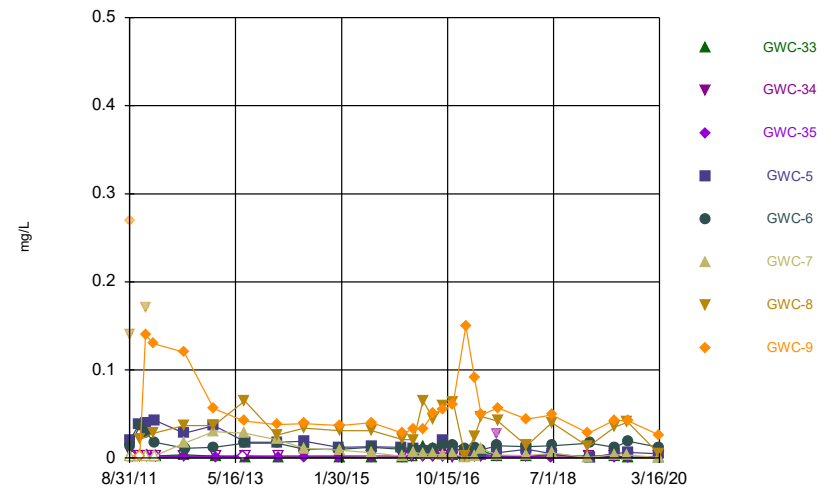
Constituent: Cobalt Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Cobalt Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Cobalt Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					0.0028	0.0028			
9/13/2011								0.013	<0.0025
9/16/2011	<0.0025		<0.0025						
9/17/2011		<0.0025		<0.0025					
10/27/2011	<0.0025	<0.0025				<0.0025			
10/28/2011			<0.0025	<0.0025				0.014	<0.0025
12/4/2011								0.011	<0.0025
12/12/2011			<0.0025	<0.0025					
12/13/2011	<0.0025								
12/14/2011		<0.0025				<0.0025			
1/24/2012									<0.0025
1/25/2012			<0.0025						
1/31/2012	<0.0025			<0.0025					
2/1/2012							0.0027		
2/7/2012		<0.0025							
2/9/2012								0.0091	
7/11/2012									<0.0025
7/16/2012			<0.0025						
7/17/2012				<0.0025					
7/18/2012	<0.0025							0.0061	
7/23/2012		<0.0025				0.0073			
1/8/2013								0.0035	<0.0025
1/23/2013		<0.0025				0.0029			
1/24/2013	<0.0025		<0.0025	<0.0025					
7/9/2013								0.0044	
7/10/2013									<0.0025
7/17/2013	<0.0025					0.0033			
7/23/2013			<0.0025						
7/24/2013		<0.0025		<0.0025					
1/15/2014						0.0076		0.0043	
1/21/2014	<0.0025								<0.0025
1/22/2014		<0.0025	<0.0025	<0.0025					
6/25/2014	<0.0025				0.00075 (J)	0.0044		0.011	
7/1/2014		0.00056 (J)	<0.0025						<0.0025
7/8/2014				<0.0025					
1/14/2015	0.00068 (J)					0.015			
1/21/2015			<0.0025	<0.0025				0.0057	<0.0025
1/22/2015		0.00067 (J)							
7/21/2015	<0.0025		<0.0025		0.00066 (J)	0.0053			
7/22/2015		<0.0025		<0.0025					
7/28/2015								0.009	<0.0025
1/19/2016				<0.0025 (D)					
1/20/2016		<0.0025				0.0034			
1/21/2016	<0.0025								
1/22/2016			<0.0025						
1/25/2016							0.0048		
1/26/2016								0.0025	<0.0025
3/22/2016			<0.0025	<0.0025					
3/23/2016	<0.0025	<0.0025				0.00443 (J)			
3/29/2016								0.00664 (J)	<0.0025
3/30/2016							0.0025 (J)		
3/31/2016					<0.0025				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				<0.0025		0.00361 (J)			
5/20/2016	<0.0025								
5/23/2016			<0.0025						
5/24/2016		<0.0025							
5/25/2016					<0.0025		0.00272 (J)	0.0102	<0.0025
7/21/2016	<0.0025			<0.0025		0.0058			
7/22/2016									<0.0025
7/25/2016			<0.0025					0.0059	
7/26/2016		<0.0025							
7/27/2016					<0.0025		0.0052		
9/14/2016						0.0075			
9/15/2016	<0.0025		<0.0025						<0.0025
9/16/2016		0.0011 (J)					0.0048		
9/19/2016								0.0061	
11/9/2016			<0.0025						
11/10/2016		<0.0025				0.01			
11/11/2016	<0.0025								
11/16/2016								0.005	<0.0025
11/17/2016							0.0095		
1/17/2017			<0.0025	<0.0025		0.013			
1/19/2017	<0.0025	<0.0025							
1/31/2017								0.012	<0.0025
2/1/2017							0.009		
3/16/2017	<0.0025		<0.0025			0.0059			
3/17/2017		<0.0025							
3/23/2017								0.013	<0.0025
3/24/2017							0.0026		
4/27/2017			<0.0025	<0.0025		0.0052			
4/28/2017	0.00044 (J)	0.00045 (J)							
5/2/2017								0.013	
5/3/2017							0.0073		<0.0025
7/18/2017				<0.0025					
8/1/2017			<0.0025	<0.0025	<0.0025				
8/2/2017		<0.0025				0.005			
8/3/2017	<0.0025								
8/7/2017								0.0099	<0.0025
8/8/2017							0.0037		
10/3/2017					<0.0025				
1/19/2018	<0.0025	<0.0025	<0.0025	<0.0025					
1/22/2018						0.0046			
1/24/2018								0.0047	<0.0025
1/25/2018							0.01		
6/19/2018	<0.0025	0.00061 (J)	<0.0025	<0.0025		0.005			
6/20/2018					<0.0025			0.0063	
6/21/2018							0.012		
6/26/2018									<0.0025
1/17/2019	0.00033 (J)	0.00018 (J)				0.0038			
1/18/2019				<0.0025	0.00011 (J)				
1/21/2019			<0.0025						
1/24/2019								0.0015 (J)	
1/25/2019									0.00032 (J)
1/31/2019							0.0063		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				0.0033 (O)	<0.0025	<0.0025	0.0042		
8/31/2011								<0.0025	0.0047
9/13/2011	<0.0025	<0.0025							
9/16/2011			<0.0025						
10/26/2011				<0.0025	<0.0025	<0.0025	<0.0025		
10/27/2011		0.044 (O)	<0.0025					<0.0025	0.0032
10/28/2011	<0.0025								
12/3/2011		0.0037	<0.0025	<0.0025	<0.0025	<0.0025	0.0036		
12/4/2011	<0.0025							<0.0025	0.003
1/24/2012	<0.0025	0.021							
1/25/2012				<0.0025	<0.0025				
2/8/2012							<0.0025	<0.0025	0.0035
2/9/2012			<0.0025			<0.0025			
7/11/2012	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/17/2012									0.0043
1/8/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0017	<0.0025	
1/9/2013									0.0019
7/2/2013			<0.0025	<0.0025					
7/10/2013	<0.0025	0.0014							
7/16/2013					<0.0025	<0.0025	<0.0025	<0.0025	0.0043
1/14/2014				<0.0025	<0.0025	<0.0025			
1/21/2014	<0.0025	0.043	<0.0025				0.00055 (J)	<0.0025	0.00093 (J)
6/24/2014			<0.0025			<0.0025	0.00071 (J)	0.00071 (J)	<0.0025
6/25/2014				<0.0025	<0.0025				
7/1/2014	<0.0025	0.0011 (J)							
1/13/2015				<0.0025		<0.0025	0.00085 (J)	<0.0025	0.00058 (J)
1/14/2015		0.019	0.00063 (J)		<0.0025				
1/21/2015	<0.0025								
7/22/2015		0.016	0.00065 (J)	<0.0025					
7/23/2015						<0.0025	0.00099 (J)	0.0011 (J)	<0.0025
7/28/2015	<0.0025				<0.0025				
1/26/2016									0.0015
1/27/2016	<0.0025	0.45	0.0016	<0.0025	<0.0025	<0.0025	0.00077 (J)	<0.0025	
3/29/2016	<0.0025								
3/30/2016		0.176	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/20/2016		0.13							
5/25/2016	<0.0025	0.0616	<0.0025	<0.0025	<0.0025				
5/26/2016						<0.0025	<0.0025	<0.0025	<0.0025
7/25/2016						<0.0025	<0.0025	0.00042 (J)	
7/26/2016	<0.0025	0.32	<0.0025						<0.0025
7/27/2016				<0.0025	<0.0025				
9/15/2016	<0.0025	0.014							
9/16/2016				<0.0025					
9/19/2016					<0.0025	<0.0025	<0.0025		
9/20/2016			<0.0025					0.00064 (J)	<0.0025
11/17/2016	<0.0025	0.01	0.001 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/31/2017	<0.0025								
2/1/2017		0.2	<0.0025	<0.0025	<0.0025	<0.0025			
2/2/2017							0.011 (O)	<0.0025	0.0004 (J)
3/23/2017	<0.0025	0.14	0.0013 (J)						
3/24/2017				<0.0025	<0.0025	<0.0025	0.0016 (J)		
3/28/2017								<0.0025	0.00047 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/3/2017	<0.0025	0.23	0.00055 (J)	<0.0025	<0.0025	<0.0025	0.0017 (J)		
5/4/2017								<0.0025	0.00043 (J)
8/4/2017	<0.0025		0.0018 (J)						
8/7/2017		0.026		<0.0025	<0.0025	<0.0025	0.00081 (J)	<0.0025	0.0024 (J)
1/25/2018	<0.0025	0.23	0.00072 (J)	<0.0025	<0.0025	<0.0025	0.00047 (J)		
1/26/2018								0.00058 (J)	0.0048
6/20/2018	<0.0025	0.048	<0.0025	<0.0025					0.0031
6/21/2018						<0.0025	0.0009 (J)	<0.0025	
6/26/2018					<0.0025				
1/22/2019	<0.0025	0.22	0.00016 (J)						
1/24/2019					<0.0025				0.0028
1/25/2019				0.00013 (J)					
1/28/2019						<0.0025	0.00043 (J)	<0.0025	
6/25/2019	<0.0025	0.23	0.00012 (J)	<0.0025	<0.0025			0.00012 (J)	0.0028
6/26/2019							0.00042 (J)		
6/27/2019						<0.0025			
9/11/2019				<0.0025	<0.0025	<0.0025		<0.0025	0.0017
9/12/2019	<0.0025	0.013					0.00035 (J)		
9/17/2019			<0.0025						
3/12/2020	<0.0025								
3/16/2020			<0.0025						
3/17/2020		0.16		<0.0025	<0.0025	<0.0025			
3/18/2020							0.0016 (J)	<0.0025	0.0006 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.0025						<0.0025		<0.0025
9/16/2011		0.0037 (O)							
9/17/2011				<0.0025	<0.0025	<0.0025		<0.0025	
10/28/2011							<0.0025		
10/29/2011	<0.0025	<0.0025			<0.0025	<0.0025			
10/31/2011				0.0042				<0.0025	<0.0025
12/13/2011	<0.0025	0.003 (O)					<0.0025		<0.0025
12/14/2011				0.0047	<0.0025	<0.0025			
1/25/2012	<0.0025					<0.0025			
1/31/2012		0.0027							
2/1/2012									<0.0025
2/7/2012				<0.0025	<0.0025			<0.0025	
2/8/2012							<0.0025		
7/17/2012				0.044	<0.0025	0.0023			<0.0025
7/18/2012	<0.0025	0.0021					<0.0025		
1/22/2013	<0.0025	0.002							
1/23/2013								<0.0025	<0.0025
1/24/2013					0.0018	0.0033	<0.0025		
7/16/2013	<0.0025								
7/23/2013		0.0013							
7/24/2013				0.041	<0.0025	0.0046	<0.0025		<0.0025
1/21/2014	<0.0025								
1/22/2014		0.00035 (J)							
1/23/2014				0.0077	0.00041 (J)	0.0024	<0.0025	<0.0025	<0.0025
6/25/2014	<0.0025								
7/1/2014		0.00088 (J)					<0.0025	<0.0025	<0.0025
7/8/2014			0.0023	0.028	<0.0025	0.0027			
1/14/2015	<0.0025								
1/20/2015							<0.0025		<0.0025
1/21/2015				0.0063	<0.0025	0.0025		<0.0025	
1/22/2015		<0.0025							
7/23/2015	<0.0025								
7/29/2015		0.00052 (J)							
7/30/2015				0.01		0.003	<0.0025		<0.0025
7/31/2015			0.0018		<0.0025				
1/19/2016							<0.0025		
1/20/2016			0.0023						
1/21/2016		<0.0025		0.0094					
1/22/2016						0.0018			
1/25/2016					<0.0025			<0.0025	<0.0025
1/26/2016	<0.0025								
3/23/2016						0.00275 (J)	<0.0025		<0.0025
3/24/2016					<0.0025				
3/28/2016				0.0117					
3/29/2016		<0.0025							
3/30/2016			<0.0025					<0.0025	
3/31/2016	<0.0025								
5/20/2016							<0.0025		
5/24/2016						0.0024 (J)			<0.0025
5/25/2016		<0.0025	<0.0025	0.0122	<0.0025			<0.0025	
5/26/2016	<0.0025								
7/21/2016							<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									0.00058 (J)
7/26/2016	<0.0025				<0.0025	0.0043			
7/27/2016		<0.0025	0.00095 (J)	0.0065				0.0015	
9/16/2016			0.0053						0.00088 (J)
9/19/2016				0.0071	<0.0025	0.0024 (J)			
9/20/2016	<0.0025	<0.0025					<0.0025		
11/11/2016						0.0018 (J)			
11/14/2016					0.00061 (J)		<0.0025		
11/15/2016				0.029					<0.0025
11/17/2016	<0.0025								
11/18/2016		<0.0025	0.0011 (J)						
1/19/2017					<0.0025				
1/20/2017						0.0027			
1/24/2017				0.033			<0.0025		
1/25/2017								<0.0025	
1/26/2017									0.0013 (J)
2/3/2017	<0.0025	<0.0025	0.00097 (J)						
3/16/2017					<0.0025	0.0024 (J)			
3/17/2017							<0.0025		
3/23/2017				0.022				<0.0025	
3/24/2017									0.0012 (J)
3/28/2017	<0.0025	<0.0025							
3/29/2017			0.00059 (J)						
4/28/2017						0.0026			
5/1/2017					<0.0025		<0.0025		
5/2/2017				0.036				<0.0025	0.00095 (J)
5/3/2017	<0.0025								
5/4/2017		<0.0025	0.0011 (J)						
7/19/2017								<0.0025	
8/3/2017				0.00041 (J)	<0.0025	0.0024 (J)			0.00045 (J)
8/4/2017							<0.0025	<0.0025	
8/8/2017	<0.0025	<0.0025	0.0011 (J)						
1/19/2018						0.0019 (J)			
1/22/2018					<0.0025				
1/23/2018								<0.0025	0.00053 (J)
1/24/2018							<0.0025		
1/25/2018	<0.0025	<0.0025	0.00088 (J)	0.01					
6/20/2018	<0.0025	<0.0025							
6/21/2018							<0.0025		
6/26/2018									<0.0025
6/27/2018			0.00086 (J)	0.01	<0.0025	0.002 (J)		<0.0025	
1/24/2019	<0.0025			0.0014 (J)	0.00012 (J)	0.0019 (J)			
1/25/2019		8.4E-05 (J)							
1/30/2019							<0.0025		0.00012 (J)
1/31/2019			0.0029					<0.0025	
6/25/2019	<0.0025			0.001	0.00017 (J)				
6/26/2019		<0.0025	0.001			0.0023		<0.0025	
6/27/2019							<0.0025		0.00017 (J)
9/10/2019	<0.0025						<0.0025		
9/11/2019			0.0013	0.013				0.00044 (J)	
9/12/2019		9.3E-05 (J)			0.00012 (J)	0.0022			0.00087
3/11/2020							<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

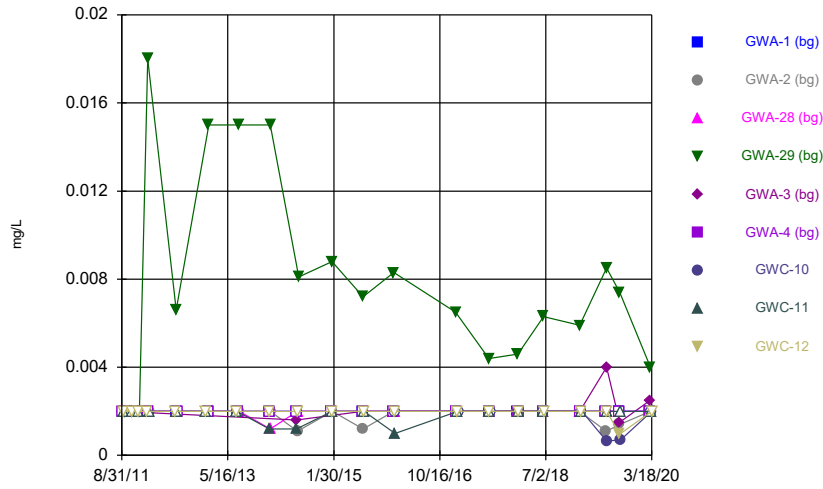
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				0.02	0.013			
9/7/2011						<0.0025	0.14 (O)	0.27 (O)
9/16/2011	<0.0025	<0.0025	<0.0025					
10/27/2011				0.038				
10/30/2011	0.0031				0.037	<0.0025	0.021	<0.0025
10/31/2011		<0.0025	<0.0025					
12/4/2011								0.14
12/5/2011				0.04	0.029	<0.0025	0.17 (O)	
12/12/2011		<0.0025	0.0025					
12/13/2011	0.0033							
1/19/2012							0.028	0.13
1/25/2012				0.043	0.018	<0.0025		
2/1/2012	<0.0025	<0.0025	<0.0025					
7/16/2012		<0.0025	0.0017					
7/17/2012	0.0037							
7/18/2012				0.028		0.017	0.037	0.12
7/24/2012					0.011			
1/7/2013						0.03	0.037	
1/8/2013					0.012			0.056
1/9/2013				0.037				
1/22/2013		<0.0025	0.0013					
1/23/2013	0.002							
7/2/2013			<0.0025					
7/9/2013					0.017	0.028	0.065	0.042
7/17/2013	0.0013	<0.0025		0.018				
1/14/2014						0.021	0.026	0.038
1/15/2014				0.018	0.017			
1/21/2014			0.00076 (J)					
1/23/2014	0.00071 (J)	<0.0025						
6/24/2014						0.011	0.034	0.039
6/25/2014		<0.0025	0.00093 (J)	0.019	0.0099			
1/13/2015				0.012				
1/14/2015		<0.0025	0.00069 (J)					
1/20/2015	0.0013				0.0098	0.0088	0.031	0.037
7/24/2015				0.013	0.012			
7/27/2015						0.0061	0.031	0.04
7/28/2015			0.00053 (J)					
7/29/2015	0.00054 (J)	<0.0025						
1/20/2016				0.012	0.01			
1/21/2016		<0.0025	0.0005 (J)					
1/25/2016	0.00082 (J)							
1/26/2016						0.002	0.021	0.028
3/23/2016	<0.0025							
3/24/2016		<0.0025	<0.0025					
3/28/2016				0.0101	0.0104			
3/29/2016						0.00652 (J)	0.0208	0.0328
5/23/2016		<0.0025	<0.0025	0.00701 (J)				
5/24/2016	0.0136				0.00926 (J)	0.00462 (J)	0.0649	0.0334
7/21/2016		<0.0025	<0.0025	0.0079	0.01			
7/22/2016	0.01					0.0042		
7/25/2016								0.051
7/26/2016							0.044	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

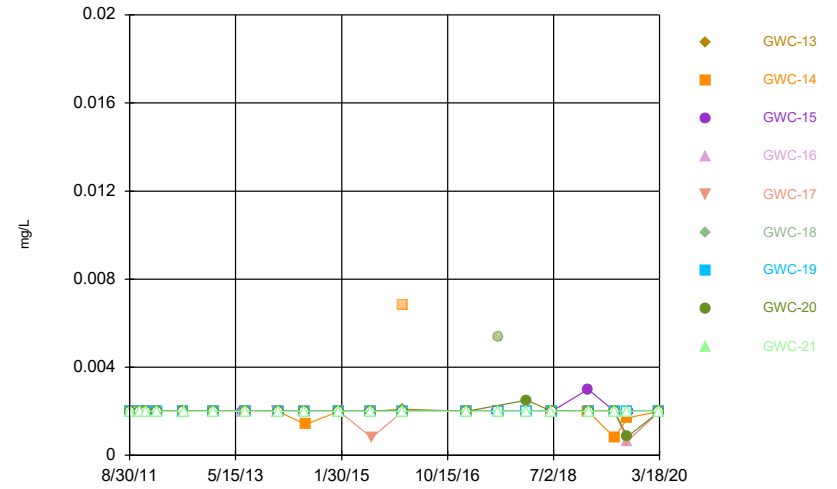
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.0025	<0.0025	0.02	0.014	0.0036		
9/16/2016	0.011							
9/19/2016							0.059	0.055
11/15/2016		0.00043 (J)	<0.0025	0.011				
11/16/2016					0.015	0.0044	0.064	0.061
11/17/2016	0.0032							
1/25/2017	<0.0025	<0.0025						
1/26/2017			<0.0025	0.0075	0.011	0.00091 (J)	0.0017 (J)	
1/31/2017								0.15
3/22/2017		<0.0025	<0.0025	0.0063	0.012	0.0016 (J)		
3/23/2017	0.0037						0.025	0.091
5/1/2017	0.0085	<0.0025						
5/2/2017			<0.0025	0.0036	0.0094	0.011		0.049
5/3/2017							0.047	
8/3/2017		0.027 (O)	<0.0025	0.0061	0.014			
8/4/2017	0.0023 (J)					0.0033		
8/7/2017							0.042	0.057
1/23/2018	0.0024 (J)	<0.0025	<0.0025	0.01	0.013	0.0028		
1/24/2018							0.014	0.044
6/19/2018			0.00042 (J)					
6/20/2018		<0.0025						
6/21/2018							0.04	0.049
6/25/2018				0.0049	0.014	0.0057		
6/26/2018	0.0042							
1/21/2019			0.00025 (J)			0.00051 (J)		
1/22/2019							0.013	0.028
1/28/2019		<0.0025						
1/30/2019	0.00012 (J)			0.00068 (J)	0.017			
6/25/2019						0.0039	0.035	0.043
6/26/2019	0.0025	<0.0025	0.00028 (J)	0.0054	0.012			
9/10/2019						0.0035	0.041	
9/11/2019		0.00011 (J)						
9/12/2019	0.00083		0.00027 (J)	0.0062	0.019			
9/16/2019								0.042
3/11/2020		<0.0025	0.00022 (J)					
3/12/2020	0.0013 (J)					0.00066 (J)	0.0047	
3/16/2020				0.0049	0.012			0.026

Time Series



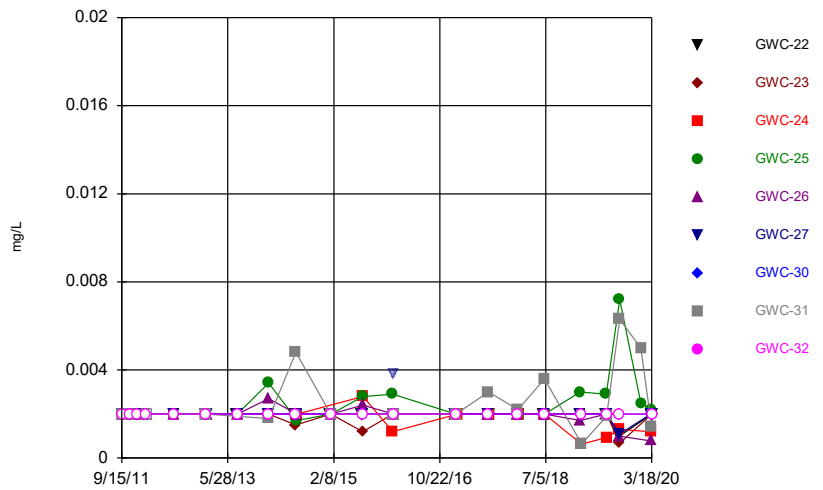
Constituent: Copper Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



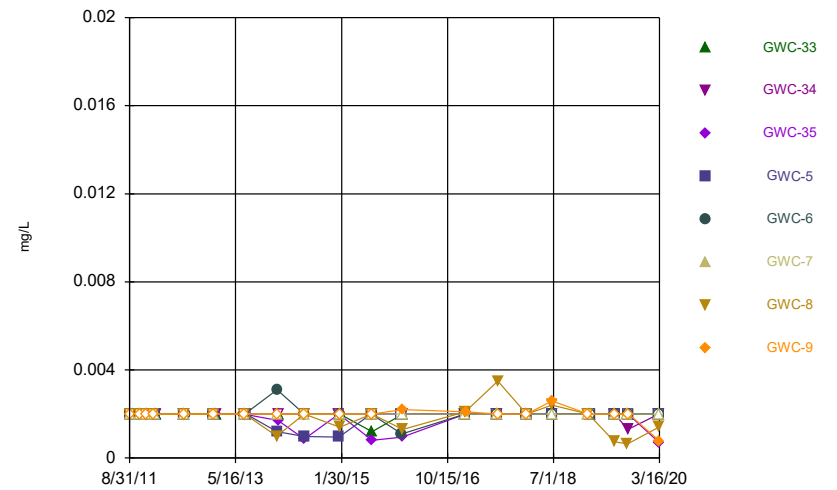
Constituent: Copper Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Copper Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Copper Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.002	<0.002			
9/13/2011								<0.002	<0.002
9/16/2011	<0.002		<0.002						
9/17/2011		<0.002		<0.002					
10/27/2011	<0.002	<0.002				<0.002			
10/28/2011			<0.002	<0.002				<0.002	<0.002
12/4/2011								<0.002	<0.002
12/12/2011			<0.002	<0.002					
12/13/2011	<0.002								
12/14/2011		<0.002				<0.002			
1/24/2012									<0.002
1/25/2012			<0.002						
1/31/2012	<0.002			0.018					
2/1/2012							<0.002		
2/7/2012		<0.002							
2/9/2012								<0.002	
7/11/2012									<0.002
7/16/2012			<0.002						
7/17/2012				0.0066					
7/18/2012	<0.002							<0.002	
7/23/2012		<0.002				<0.002			
1/8/2013								<0.002	<0.002
1/23/2013		<0.002				<0.002			
1/24/2013	<0.002		<0.002	0.015					
7/9/2013								<0.002	
7/10/2013									<0.002
7/17/2013	<0.002					<0.002			
7/23/2013			<0.002						
7/24/2013		<0.002		0.015					
1/15/2014						<0.002		0.0012 (J)	
1/21/2014	<0.002								<0.002
1/22/2014		<0.002	0.0012 (J)	0.015					
6/25/2014	<0.002				0.0016 (J)	<0.002		0.0012 (J)	
7/1/2014		0.0011 (J)	<0.002						<0.002
7/8/2014				0.0081 (D)					
1/14/2015	<0.002					<0.002			
1/21/2015			<0.002	0.0088				<0.002	<0.002
1/22/2015		<0.002							
7/21/2015	<0.002		<0.002		<0.002	<0.002			
7/22/2015		0.0012 (J)		0.0072					
7/28/2015								<0.002	<0.002
1/19/2016				0.0083 (D)					
1/20/2016		<0.002				<0.002			
1/21/2016	<0.002								
1/22/2016			<0.002						
1/25/2016							<0.002		
1/26/2016								0.001 (J)	<0.002
1/17/2017			<0.002	0.0065		<0.002			
1/19/2017	<0.002	<0.002							
1/31/2017								<0.002	<0.002
2/1/2017							<0.002		
8/1/2017			<0.002	0.0044	<0.002				

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				<0.002	<0.002	<0.002	<0.002		
8/31/2011								<0.002	<0.002
9/13/2011	<0.002	<0.002							
9/16/2011			<0.002						
10/26/2011				<0.002	<0.002	<0.002	<0.002		
10/27/2011		<0.002	<0.002					<0.002	<0.002
10/28/2011	<0.002								
12/3/2011		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
12/4/2011	<0.002							<0.002	<0.002
1/24/2012	<0.002	<0.002							
1/25/2012				<0.002	<0.002				
2/8/2012							<0.002	<0.002	<0.002
2/9/2012			<0.002			<0.002			
7/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
7/17/2012									<0.002
1/8/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
1/9/2013									<0.002
7/2/2013			<0.002	<0.002					
7/10/2013	<0.002	<0.002							
7/16/2013					<0.002	<0.002	<0.002	<0.002	<0.002
1/14/2014				<0.002	<0.002	<0.002			
1/21/2014	<0.002	<0.002	<0.002				<0.002	<0.002	<0.002
6/24/2014			<0.002			<0.002	<0.002	<0.002	<0.002
6/25/2014				<0.002	<0.002				
7/1/2014	<0.002	0.0014 (J)							
1/13/2015				<0.002		<0.002	<0.002	<0.002	<0.002
1/14/2015		<0.002	<0.002		<0.002				
1/21/2015	<0.002								
7/22/2015		<0.002	<0.002	<0.002					
7/23/2015						<0.002	<0.002	<0.002	<0.002
7/28/2015	<0.002				0.00081 (J)				
1/26/2016									<0.002
1/27/2016	0.0021 (J)	0.0068 (O)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
1/31/2017	<0.002								
2/1/2017		<0.002	<0.002	<0.002	<0.002	<0.002			
2/2/2017							<0.002	<0.002	<0.002
8/4/2017	<0.002		<0.002						
8/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002	0.0054 (O)	<0.002
1/25/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/26/2018								0.0025	<0.002
6/20/2018	<0.002	<0.002	<0.002	<0.002					<0.002
6/21/2018						<0.002	<0.002	<0.002	
6/26/2018					<0.002				
1/22/2019	<0.002	<0.002	0.003						
1/24/2019					<0.002				<0.002
1/25/2019				<0.002					
1/28/2019						<0.002	<0.002	<0.002	
6/25/2019	<0.002	0.0008 (J)	<0.002	<0.002	<0.002			<0.002	<0.002
6/26/2019							<0.002		
6/27/2019						<0.002			
9/11/2019				0.00065 (J)	0.00066 (J)	<0.002		0.00085 (J)	<0.002
9/12/2019	<0.002	0.0017 (J)					<0.002		

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
9/17/2019			<0.002						
3/12/2020	<0.002								
3/16/2020			<0.002						
3/17/2020		<0.002		<0.002	<0.002	<0.002			
3/18/2020							<0.002	<0.002	<0.002

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.002						<0.002		<0.002
9/16/2011		<0.002							
9/17/2011				<0.002	<0.002	<0.002		<0.002	
10/28/2011							<0.002		
10/29/2011	<0.002	<0.002			<0.002	<0.002			
10/31/2011				<0.002				<0.002	<0.002
12/13/2011	<0.002	<0.002					<0.002		<0.002
12/14/2011				<0.002	<0.002	<0.002			
1/25/2012	<0.002					<0.002			
1/31/2012		<0.002							
2/1/2012									<0.002
2/7/2012				<0.002	<0.002			<0.002	
2/8/2012							<0.002		
7/17/2012				<0.002	<0.002	<0.002			<0.002
7/18/2012	<0.002	<0.002					<0.002		
1/22/2013	<0.002	<0.002							
1/23/2013								<0.002	<0.002
1/24/2013					<0.002	<0.002	<0.002		
7/16/2013	<0.002								
7/23/2013		<0.002							
7/24/2013				<0.002	<0.002	<0.002	<0.002		<0.002
1/21/2014	<0.002								
1/22/2014		<0.002							
1/23/2014				0.0034 (J)	0.0027 (J)	<0.002	<0.002	0.0018 (J)	<0.002
6/25/2014	<0.002								
7/1/2014		0.0015 (J)					<0.002	0.0048 (J)	<0.002
7/8/2014			<0.002	0.0017 (J)	<0.002	<0.002			
1/14/2015	<0.002								
1/20/2015							<0.002		<0.002
1/21/2015				<0.002	<0.002	<0.002		<0.002	
1/22/2015		<0.002							
7/23/2015	<0.002								
7/29/2015		0.0012 (J)							
7/30/2015				0.0028 (J)		0.002 (J)	<0.002		<0.002
7/31/2015			0.0028 (J)		0.0024 (J)				
1/19/2016							<0.002		
1/20/2016			0.0012 (J)						
1/21/2016		<0.002		0.0029 (J)					
1/22/2016						0.0038 (JO)			
1/25/2016					<0.002			<0.002	<0.002
1/26/2016	<0.002								
1/19/2017					<0.002				
1/20/2017						<0.002			
1/24/2017				<0.002			<0.002		
1/25/2017								<0.002	
1/26/2017									<0.002
2/3/2017	<0.002	<0.002	<0.002						
8/3/2017				<0.002	<0.002	<0.002			<0.002
8/4/2017							<0.002	0.003	
8/8/2017	<0.002	<0.002	<0.002						
1/19/2018						<0.002			
1/22/2018					<0.002				

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

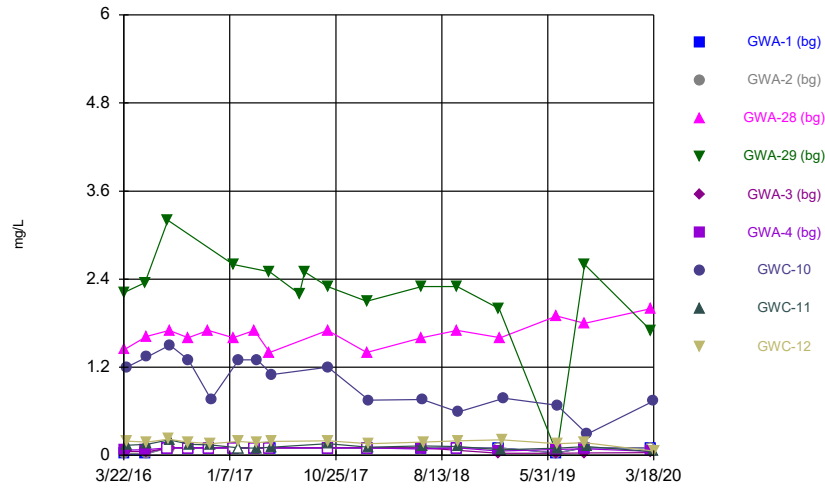
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.002	<0.002			
9/7/2011						<0.002	<0.002	<0.002
9/16/2011	<0.002	<0.002	<0.002					
10/27/2011				<0.002				
10/30/2011	<0.002				<0.002	<0.002	<0.002	<0.002
10/31/2011		<0.002	<0.002					
12/4/2011								<0.002
12/5/2011				<0.002	<0.002	<0.002	<0.002	
12/12/2011		<0.002	<0.002					
12/13/2011	<0.002							
1/19/2012							<0.002	<0.002
1/25/2012				<0.002	<0.002	<0.002		
2/1/2012	<0.002	<0.002	<0.002					
7/16/2012		<0.002	<0.002					
7/17/2012	<0.002							
7/18/2012				<0.002		<0.002	<0.002	<0.002
7/24/2012					<0.002			
1/7/2013						<0.002	<0.002	
1/8/2013					<0.002			<0.002
1/9/2013				<0.002				
1/22/2013		<0.002	<0.002					
1/23/2013	<0.002							
7/2/2013			<0.002					
7/9/2013					<0.002	<0.002	<0.002	<0.002
7/17/2013	<0.002	<0.002		<0.002				
1/14/2014						<0.002	0.001 (J)	<0.002
1/15/2014				0.0012 (J)	0.0031 (J)			
1/21/2014			0.0017 (J)					
1/23/2014	<0.002	<0.002						
6/24/2014						<0.002	<0.002	<0.002
6/25/2014		<0.002	0.00087 (J)	0.00098 (J)	<0.002			
1/13/2015				0.00095 (J)				
1/14/2015		<0.002	<0.002					
1/20/2015	<0.002				<0.002	<0.002	0.0014 (J)	<0.002
7/24/2015				<0.002	<0.002			
7/27/2015						<0.002	<0.002	<0.002
7/28/2015			0.0008 (J)					
7/29/2015	0.0012 (J)	<0.002						
1/20/2016				<0.002	0.0011 (J)			
1/21/2016		<0.002	0.00095 (J)					
1/25/2016	<0.002							
1/26/2016						<0.002	0.0013 (J)	0.0022 (J)
1/25/2017	<0.002	<0.002						
1/26/2017			<0.002	<0.002	<0.002	<0.002	0.0021 (J)	
1/31/2017								0.0021 (J)
8/3/2017		<0.002	<0.002	<0.002	<0.002			
8/4/2017	<0.002					<0.002		
8/7/2017							0.0035	<0.002
1/23/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/24/2018							<0.002	<0.002
6/19/2018			<0.002					
6/20/2018		<0.002						

Time Series

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

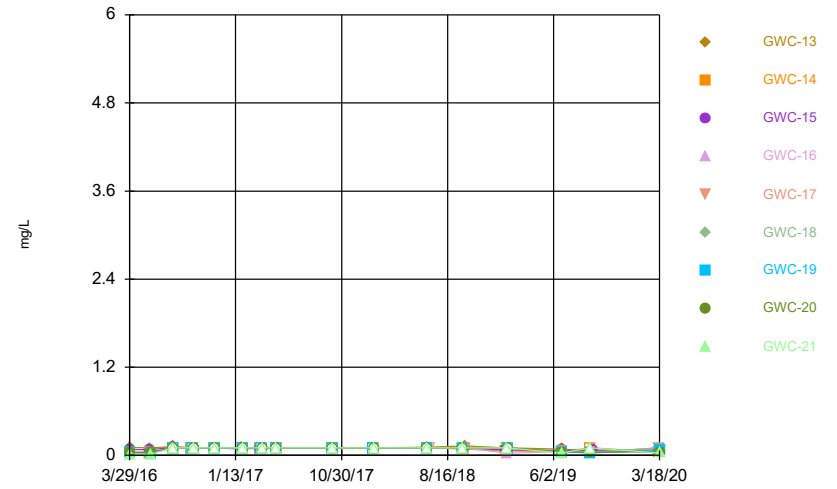
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
6/21/2018							0.0024 (J)	0.0026
6/25/2018				<0.002	<0.002	<0.002		
6/26/2018	<0.002							
1/21/2019			<0.002			<0.002		
1/22/2019							<0.002	<0.002
1/28/2019		<0.002						
1/30/2019	<0.002			<0.002	<0.002			
6/25/2019						<0.002	0.00074 (J)	<0.002
6/26/2019	<0.002	<0.002	<0.002	<0.002	<0.002			
9/10/2019						<0.002	0.00065 (J)	
9/11/2019		0.0013 (J)						
9/12/2019	<0.002		<0.002	<0.002	<0.002			
9/16/2019								<0.002
3/11/2020		<0.002	0.00072 (J)					
3/12/2020	<0.002					<0.002	0.0014 (J)	
3/16/2020				<0.002	<0.002			0.00077 (J)

Time Series



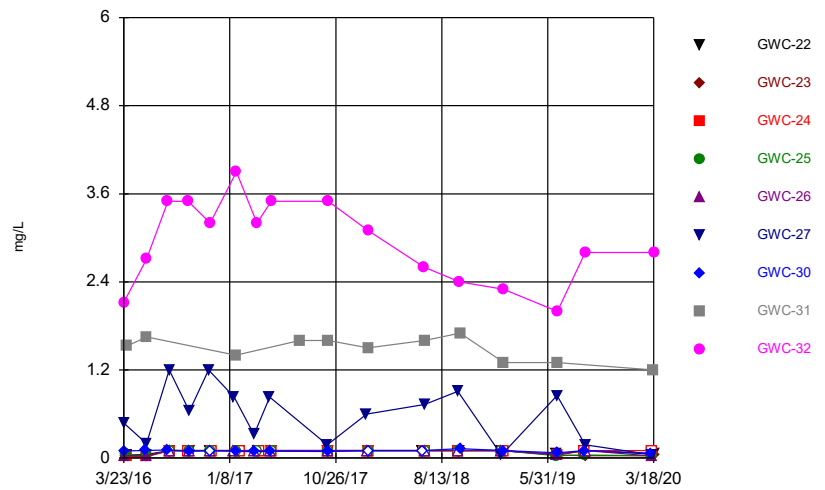
Constituent: Fluoride, total Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



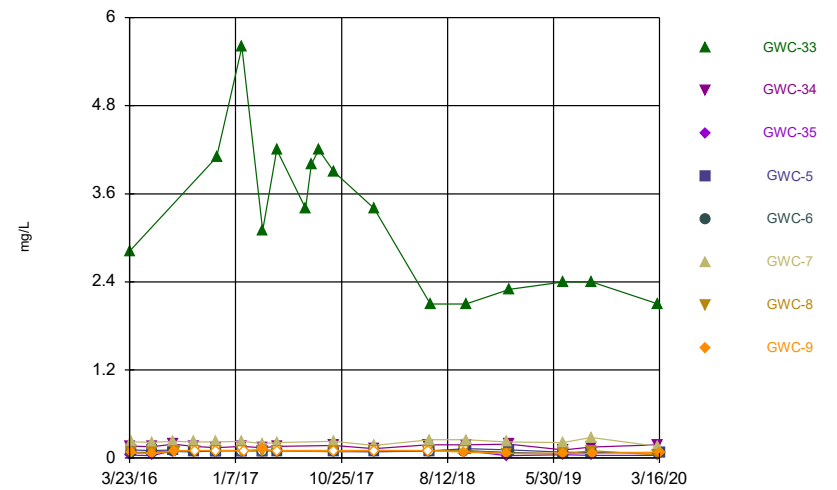
Constituent: Fluoride, total Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Fluoride, total Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Fluoride, total Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			1.4375	2.2163					
3/23/2016	0.019 (J)	0.0276 (J)				0.0713 (J)			
3/29/2016								0.1377 (J)	0.1936 (J)
3/30/2016							1.2013		
3/31/2016					0.0551 (J)				
5/19/2016				2.35		0.078 (J)			
5/20/2016	0.02 (J)								
5/23/2016			1.62						
5/24/2016		0.023 (J)							
5/25/2016					0.0485 (J)		1.34	0.1521 (J)	0.1797 (J)
7/21/2016	<0.1			3.2		<0.1			
7/22/2016									0.22
7/25/2016			1.7					0.21	
7/26/2016		<0.1							
7/27/2016					<0.1		1.5		
9/14/2016						<0.1			
9/15/2016	<0.1		1.6						0.18 (J)
9/16/2016		<0.1					1.3		
9/19/2016								0.15 (J)	
11/9/2016			1.7						
11/10/2016		<0.1				<0.1			
11/11/2016	<0.1								
11/16/2016								0.14 (J)	0.16 (J)
11/17/2016							0.76		
1/17/2017			1.6	2.6		<0.1			
1/19/2017	<0.1	<0.1							
1/31/2017								<0.1	0.19 (J)
2/1/2017							1.3		
3/16/2017	<0.1		1.7			<0.1			
3/17/2017		<0.1							
3/23/2017								0.097 (J)	0.17 (J)
3/24/2017							1.3		
4/27/2017			1.4	2.5		<0.1			
4/28/2017	<0.1	<0.1							
5/2/2017								0.11 (J)	
5/3/2017							1.1		0.19 (J)
7/18/2017				2.2					
8/1/2017				2.5					
10/3/2017		<0.1	1.7	2.3	<0.1	<0.1			
10/4/2017	<0.1						1.2	0.16 (J)	0.2
1/19/2018	<0.1	<0.1	1.4	2.1					
1/22/2018						<0.1			
1/24/2018								0.11 (J)	0.16 (J)
1/25/2018							0.75		
6/19/2018	<0.1	<0.1	1.6	2.3		0.084 (J)			
6/20/2018					<0.1			0.13 (J)	
6/21/2018							0.76		
6/26/2018									0.18 (J)
9/25/2018	<0.1	<0.1	1.7	2.3		<0.1			
9/27/2018							0.59	0.12 (J)	
9/28/2018									0.2
1/17/2019	<0.1	<0.1				0.06 (J)			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	0.1084 (J)								
3/30/2016		0.0355 (J)	0.0785 (J)	0.0391 (J)	0.0422 (J)	0.0362 (J)	0.0369 (J)	0.04 (J)	0.0137 (J)
5/25/2016	0.1002 (J)	0.0265 (J)	0.0757 (J)	0.034 (J)	0.045 (J)				
5/26/2016						0.038 (J)	0.031 (J)	0.041 (J)	0.014 (J)
7/25/2016						<0.1	<0.1	<0.1	
7/26/2016	0.12 (J)	0.1 (J)	0.11 (J)						<0.1
7/27/2016				<0.1	<0.1				
9/15/2016	0.1 (J)	<0.1							
9/16/2016				<0.1					
9/19/2016					<0.1	<0.1	<0.1		
9/20/2016			<0.1					<0.1	<0.1
11/17/2016	0.092 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1/31/2017	0.11 (J)								
2/1/2017		<0.1	0.086 (J)	<0.1	<0.1	<0.1			
2/2/2017							<0.1	<0.1	<0.1
3/23/2017	0.088 (J)	<0.1	<0.1						
3/24/2017				<0.1	<0.1	<0.1	<0.1		
3/28/2017								<0.1	<0.1
5/3/2017	0.098 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
5/4/2017								<0.1	<0.1
10/4/2017		<0.1	<0.1		<0.1				
10/5/2017	0.1 (J)			<0.1		<0.1	<0.1		
10/6/2017								<0.1	<0.1
1/25/2018	0.1 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
1/26/2018								<0.1	<0.1
6/20/2018	0.11 (J)	<0.1	0.093 (J)	<0.1					<0.1
6/21/2018						<0.1	<0.1	<0.1	
6/26/2018					<0.1				
9/27/2018							<0.1	<0.1	<0.1
9/28/2018						<0.1			
10/1/2018		0.083 (J)	0.1 (J)	<0.1					
10/2/2018	0.13 (J)				<0.1				
1/22/2019	0.1 (J)	0.057 (J)	0.071 (J)						
1/24/2019					<0.1				<0.1
1/25/2019				0.027 (J)					
1/28/2019						<0.1	<0.1	<0.1	
6/25/2019	0.084 (J)	0.054 (J)	0.068 (J)	0.052 (J)	0.051 (J)			0.049 (J)	0.032 (J)
6/26/2019							0.046 (J)		
6/27/2019						0.046 (J)			
9/11/2019				0.038 (J)	0.043 (J)	0.036 (J)		0.039 (J)	<0.1
9/12/2019	0.065 (J)	<0.1					0.031 (J)		
9/17/2019			0.071 (J)						
3/12/2020	0.044 (J)								
3/16/2020			0.07 (J)						
3/17/2020		0.046 (J)		<0.1	<0.1	<0.1			
3/18/2020							0.068 (J)	0.048 (J)	0.034 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
6/27/2018			<0.1	<0.1	<0.1	0.73		1.6	
9/26/2018				<0.1					
9/27/2018					<0.1	0.91			
9/28/2018			<0.1						
10/1/2018	<0.1	<0.1							
10/2/2018									2.4
10/3/2018							0.13 (J)	1.7	
1/24/2019	<0.1			<0.1	<0.1	0.039 (J)			
1/25/2019		<0.1							
1/30/2019							0.1 (J)		2.3
1/31/2019			<0.1					1.3	
6/25/2019	0.052 (J)			0.033 (J)	0.047 (J)				
6/26/2019		0.042 (J)	0.04 (J)			0.85		1.3	
6/27/2019							0.073 (J)		2
9/10/2019	<0.1						0.1 (J)		
9/11/2019			<0.1	0.039 (J)					
9/12/2019		0.033 (J)			<0.1	0.18			2.8
3/11/2020							0.066 (J)		
3/12/2020			<0.1	0.032 (J)		0.044 (J)			
3/13/2020					0.026 (J)				
3/17/2020								1.2	
3/18/2020	0.056 (J)	0.034 (J)							2.8

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	2.8158							
3/24/2016		0.1653 (J)	0.0396 (J)					
3/28/2016				0.1116 (J)	0.0752 (J)			
3/29/2016						0.2179 (J)	0.0698 (J)	0.0671 (J)
5/23/2016		0.155 (J)	0.0343 (J)	0.1022 (J)				
5/24/2016					0.081 (J)	0.216 (J)	0.072 (J)	0.06 (J)
7/21/2016		0.19 (J)	<0.1	0.11 (J)	0.088 (J)			
7/22/2016						0.23		
7/25/2016								0.096 (J)
7/26/2016							0.092 (J)	
9/15/2016		0.16 (J)	<0.1	0.084 (J)	0.084 (J)	0.22		
9/19/2016							<0.1	<0.1
11/15/2016		0.14 (J)	<0.1	<0.1				
11/16/2016					<0.1	0.22	<0.1	<0.1
11/17/2016	4.1							
1/25/2017	5.6	0.16 (J)						
1/26/2017			<0.1	<0.1	<0.1	0.23	<0.1	
1/31/2017								<0.1
3/22/2017		0.14 (J)	<0.1	<0.1	<0.1	0.2		
3/23/2017	3.1						<0.1	0.12 (J)
5/1/2017	4.2	0.16 (J)						
5/2/2017			<0.1	0.1 (J)	<0.1	0.21		<0.1
5/3/2017							<0.1	
7/19/2017	3.4							
8/4/2017	4							
8/24/2017	4.2							
10/3/2017		0.17 (J)	<0.1	0.089 (J)	<0.1	0.23		<0.1
10/5/2017	3.9						0.085 (J)	
1/23/2018	3.4	0.13 (J)	<0.1	0.085 (J)	<0.1	0.17 (J)		
1/24/2018							<0.1	<0.1
6/19/2018			<0.1					
6/20/2018		0.18 (J)						
6/21/2018							<0.1	<0.1
6/25/2018				0.097 (J)	<0.1	0.25		
6/26/2018	2.1							
9/25/2018					<0.1			
9/26/2018							<0.1	0.082 (J)
10/1/2018			<0.1					
10/2/2018	2.1	0.18 (J)				0.25		
10/3/2018				0.13 (J)				
1/21/2019			0.031 (J)			0.22		
1/22/2019							0.062 (J)	0.065 (J)
1/28/2019		0.19 (J)						
1/30/2019	2.3			0.11 (J)	0.078 (J)			
6/25/2019						0.21	0.055 (J)	0.066 (J)
6/26/2019	2.4	0.11 (J)	0.045 (J)	0.081 (J)	0.059 (J)			
9/10/2019						0.28	0.1 (J)	
9/11/2019		0.15						
9/12/2019	2.4		0.038 (J)	0.078 (J)	0.076 (J)			
9/16/2019								0.062 (J)
3/11/2020		0.18 (J)	0.035 (J)					
3/12/2020	2.1					0.16	0.043 (J)	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

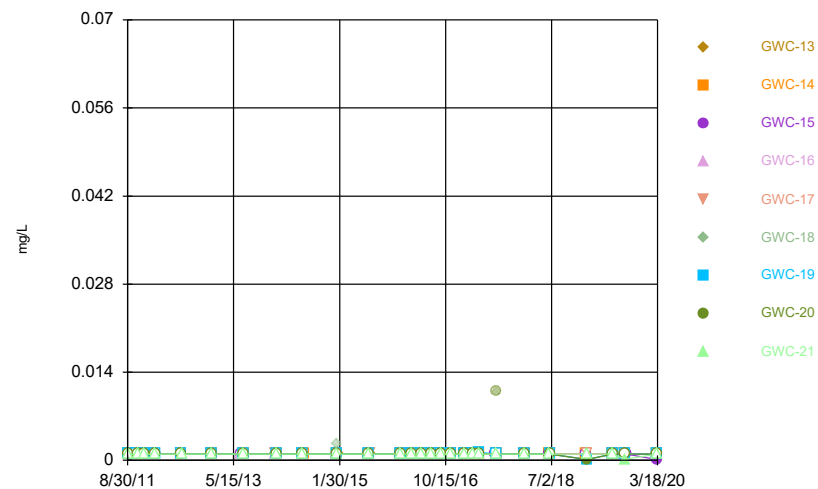
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/16/2020				0.076 (J)	0.073 (J)			0.08 (J)

Time Series



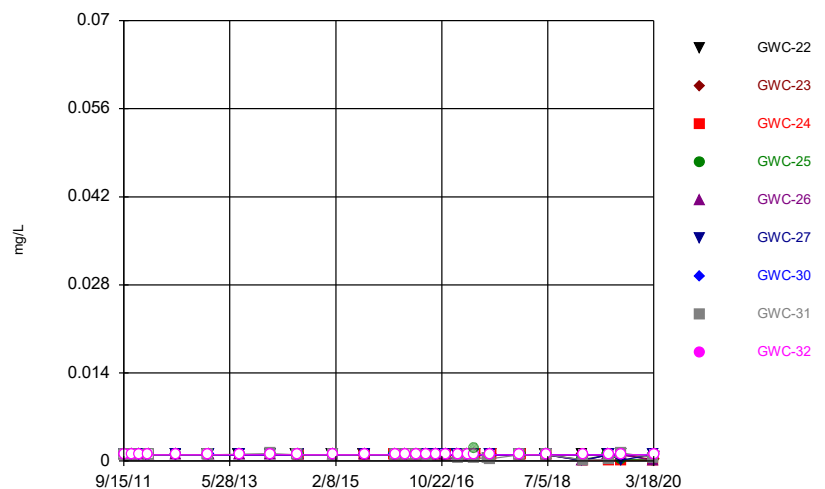
Constituent: Lead Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



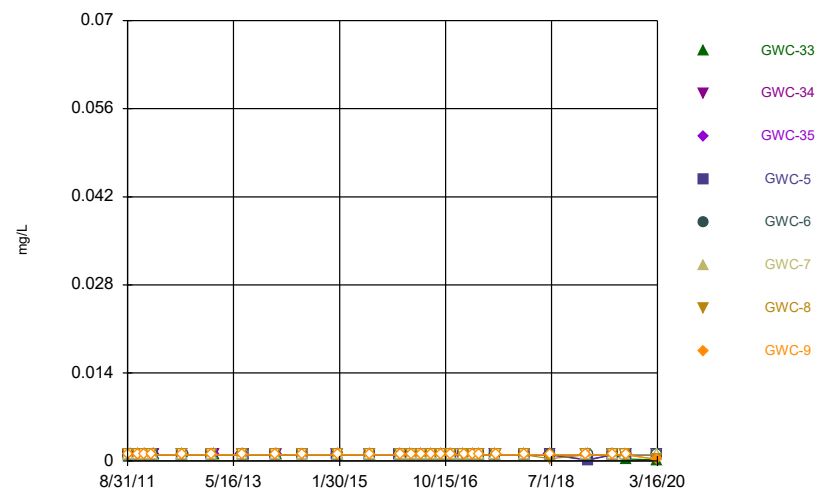
Constituent: Lead Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Lead Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Lead Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								<0.001	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		<0.001					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	<0.001				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			<0.001					
2/1/2012							<0.001		
2/7/2012		<0.001							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							<0.001	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	<0.001					
7/9/2013								<0.001	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		<0.001					
1/15/2014						<0.001		<0.001	
1/21/2014	<0.001								<0.001
1/22/2014		<0.001	<0.001	<0.001					
6/25/2014	<0.001				<0.001	<0.001		<0.001	
7/1/2014		<0.001	<0.001						<0.001
7/8/2014				<0.001 (D)					
1/14/2015	<0.001					<0.001			
1/21/2015			<0.001	<0.001				<0.001	<0.001
1/22/2015		<0.001							
7/21/2015	<0.001		<0.001		<0.001	<0.001			
7/22/2015		<0.001		<0.001					
7/28/2015								<0.001	<0.001
1/19/2016				<0.001 (D)					
1/20/2016		<0.001				<0.001			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							<0.001		
1/26/2016								<0.001	<0.001
3/22/2016			<0.001	<0.001					
3/23/2016	<0.001	<0.001				<0.001			
3/29/2016								<0.001	<0.001
3/30/2016							<0.001		
3/31/2016					<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				<0.001		<0.001			
5/20/2016	<0.001								
5/23/2016			<0.001						
5/24/2016		<0.001							
5/25/2016					<0.001		<0.001	<0.001	<0.001
7/21/2016	<0.001			<0.001		<0.001			
7/22/2016									<0.001
7/25/2016			<0.001					<0.001	
7/26/2016		<0.001							
7/27/2016					<0.001		0.0013		
9/14/2016						<0.001			
9/15/2016	<0.001		<0.001						<0.001
9/16/2016		<0.001					<0.001		
9/19/2016								<0.001	
11/9/2016			<0.001						
11/10/2016		<0.001				<0.001			
11/11/2016	<0.001								
11/16/2016								<0.001	<0.001
11/17/2016							<0.001		
1/17/2017			<0.001	<0.001		<0.001			
1/19/2017	<0.001	<0.001							
1/31/2017								<0.001	<0.001
2/1/2017							<0.001		
3/16/2017	<0.001		<0.001			<0.001			
3/17/2017		<0.001							
3/23/2017								<0.001	<0.001
3/24/2017							<0.001		
4/27/2017			<0.001	<0.001		<0.001			
4/28/2017	<0.001	<0.001						<0.001	
5/2/2017								<0.001	
5/3/2017							<0.001		<0.001
7/18/2017				<0.001					
8/1/2017			<0.001	<0.001	<0.001				
8/2/2017		<0.001				<0.001			
8/3/2017	<0.001								
8/7/2017								<0.001	<0.001
8/8/2017							<0.001		
10/3/2017					<0.001				
1/19/2018	<0.001	<0.001	<0.001	<0.001					
1/22/2018						<0.001			
1/24/2018								<0.001	<0.001
1/25/2018							<0.001		
6/19/2018	<0.001	<0.001	<0.001	<0.001		<0.001			
6/20/2018					<0.001			<0.001	
6/21/2018							<0.001		
6/26/2018									<0.001
1/17/2019	<0.001	<0.001				<0.001			
1/18/2019				<0.001	0.00011 (J)				
1/21/2019			<0.001						
1/24/2019								<0.001	
1/25/2019									<0.001
1/31/2019							0.00013 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				<0.001	<0.001	<0.001	<0.001		
8/31/2011								<0.001	<0.001
9/13/2011	<0.001	<0.001							
9/16/2011			<0.001						
10/26/2011				<0.001	<0.001	<0.001	<0.001		
10/27/2011		<0.001	<0.001					<0.001	<0.001
10/28/2011	<0.001								
12/3/2011		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
12/4/2011	<0.001							<0.001	<0.001
1/24/2012	<0.001	<0.001							
1/25/2012				<0.001	<0.001				
2/8/2012							<0.001	<0.001	<0.001
2/9/2012			<0.001			<0.001			
7/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
7/17/2012									<0.001
1/8/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/9/2013									<0.001
7/2/2013			<0.001	<0.001					
7/10/2013	<0.001	<0.001							
7/16/2013					<0.001	<0.001	<0.001	<0.001	<0.001
1/14/2014				<0.001	<0.001	<0.001			
1/21/2014	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
6/24/2014			<0.001			<0.001	<0.001	<0.001	<0.001
6/25/2014				<0.001	<0.001				
7/1/2014	<0.001	<0.001							
1/13/2015				<0.001		0.0026 (JO)	<0.001	<0.001	<0.001
1/14/2015		<0.001	<0.001		<0.001				
1/21/2015	<0.001								
7/22/2015		<0.001	<0.001	<0.001					
7/23/2015						<0.001	<0.001	<0.001	<0.001
7/28/2015	<0.001				<0.001				
1/26/2016									<0.001
1/27/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3/29/2016	<0.001								
3/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/25/2016	<0.001	<0.001	<0.001	<0.001	<0.001				
5/26/2016						<0.001	<0.001	<0.001	<0.001
7/25/2016						<0.001	<0.001	<0.001	
7/26/2016	<0.001	<0.001	<0.001						<0.001
7/27/2016				<0.001	<0.001				
9/15/2016	<0.001	<0.001							
9/16/2016				<0.001					
9/19/2016					<0.001	<0.001	<0.001		
9/20/2016			<0.001					<0.001	<0.001
11/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/31/2017	<0.001								
2/1/2017		<0.001	<0.001	<0.001	0.0009 (J)	<0.001			
2/2/2017							<0.001	<0.001	<0.001
3/23/2017	<0.001	<0.001	<0.001						
3/24/2017				<0.001	<0.001	<0.001	<0.001		
3/28/2017								<0.001	<0.001
5/3/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.001	<0.001
8/4/2017	<0.001		<0.001						
8/7/2017		<0.001		<0.001	<0.001	<0.001	<0.001	0.011 (O)	<0.001
1/25/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1/26/2018								<0.001	<0.001
6/20/2018	<0.001	<0.001	<0.001	<0.001					<0.001
6/21/2018						<0.001	<0.001	<0.001	
6/26/2018					<0.001				
1/22/2019	<0.001	<0.001	<0.001						
1/24/2019					<0.001				<0.001
1/25/2019				<0.001					
1/28/2019						0.00016 (J)	0.00011 (J)	0.00014 (J)	
6/25/2019	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
6/26/2019							<0.001		
6/27/2019						<0.001			
9/11/2019				<0.001	<0.001	<0.001		<0.001	0.00017 (J)
9/12/2019	<0.001	<0.001					<0.001		
9/17/2019			<0.001						
3/12/2020	<0.001								
3/16/2020			0.00014 (J)						
3/17/2020		<0.001		<0.001	<0.001	<0.001			
3/18/2020							<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.001						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				<0.001	<0.001	<0.001		<0.001	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				<0.001	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			<0.001	
2/8/2012							<0.001		
7/17/2012				<0.001	<0.001	<0.001			<0.001
7/18/2012	<0.001	<0.001					<0.001		
1/22/2013	<0.001	<0.001							
1/23/2013								<0.001	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	<0.001								
7/23/2013		<0.001							
7/24/2013				<0.001	<0.001	<0.001	<0.001		<0.001
1/21/2014	<0.001								
1/22/2014		<0.001							
1/23/2014				<0.001	<0.001	<0.001	<0.001	0.0012 (J)	<0.001
6/25/2014	<0.001								
7/1/2014		<0.001					<0.001	<0.001	<0.001
7/8/2014			<0.001	<0.001	<0.001	<0.001			
1/14/2015	<0.001								
1/20/2015							<0.001		<0.001
1/21/2015				<0.001	<0.001	<0.001		<0.001	
1/22/2015		<0.001							
7/23/2015	<0.001								
7/29/2015		<0.001							
7/30/2015				<0.001		<0.001	<0.001		<0.001
7/31/2015			<0.001		<0.001				
1/19/2016							<0.001		
1/20/2016			<0.001						
1/21/2016		<0.001		<0.001					
1/22/2016						<0.001			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	<0.001								
3/23/2016						<0.001	<0.001		<0.001
3/24/2016					<0.001				
3/28/2016				<0.001					
3/29/2016		<0.001							
3/30/2016			<0.001					<0.001	
3/31/2016	<0.001								
5/20/2016							<0.001		
5/24/2016						<0.001			<0.001
5/25/2016		<0.001	<0.001	<0.001	<0.001			<0.001	
5/26/2016	<0.001								
7/21/2016							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.001
7/26/2016	<0.001				<0.001	<0.001			
7/27/2016		<0.001	<0.001	<0.001				0.00078 (J)	
9/16/2016			<0.001						<0.001
9/19/2016				<0.001	<0.001	<0.001			
9/20/2016	<0.001	<0.001					<0.001		
11/11/2016						<0.001			
11/14/2016					<0.001		<0.001		
11/15/2016				<0.001					<0.001
11/17/2016	<0.001								
11/18/2016		<0.001	<0.001						
1/19/2017					<0.001				
1/20/2017						<0.001			
1/24/2017				<0.001			<0.001		
1/25/2017								0.00042 (J)	
1/26/2017									<0.001
2/3/2017	<0.001	<0.001	<0.001						
3/16/2017					<0.001	<0.001			
3/17/2017							<0.001		
3/23/2017				<0.001				<0.001	
3/24/2017									<0.001
3/28/2017	<0.001	<0.001							
3/29/2017			<0.001						
4/28/2017						<0.001			
5/1/2017					<0.001		<0.001		
5/2/2017				0.0021 (O)				0.00039 (J)	<0.001
5/3/2017	<0.001								
5/4/2017		<0.001	<0.001						
7/19/2017								0.00051 (J)	
8/3/2017				<0.001	<0.001	<0.001			<0.001
8/4/2017							<0.001	0.00037 (J)	
8/8/2017	<0.001	<0.001	<0.001						
1/19/2018						<0.001			
1/22/2018					<0.001				
1/23/2018								<0.001	<0.001
1/24/2018							<0.001		
1/25/2018	<0.001	<0.001	<0.001	<0.001					
6/20/2018	<0.001	<0.001							
6/21/2018							<0.001		
6/26/2018									<0.001
6/27/2018			<0.001	<0.001	<0.001	<0.001		<0.001	
1/24/2019	<0.001			0.00021 (J)	9.8E-05 (J)	9.8E-05 (J)			
1/25/2019		<0.001							
1/30/2019							<0.001		<0.001
1/31/2019			0.00013 (J)					0.00015 (J)	
6/25/2019	<0.001			<0.001	<0.001				
6/26/2019		<0.001	0.00016 (J)			<0.001		0.00022 (J)	
6/27/2019							<0.001		<0.001
9/10/2019	<0.001						<0.001		
9/11/2019			0.00015 (J)	0.00024 (J)				0.0013	
9/12/2019		<0.001			<0.001	0.00016 (J)			<0.001
3/11/2020							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

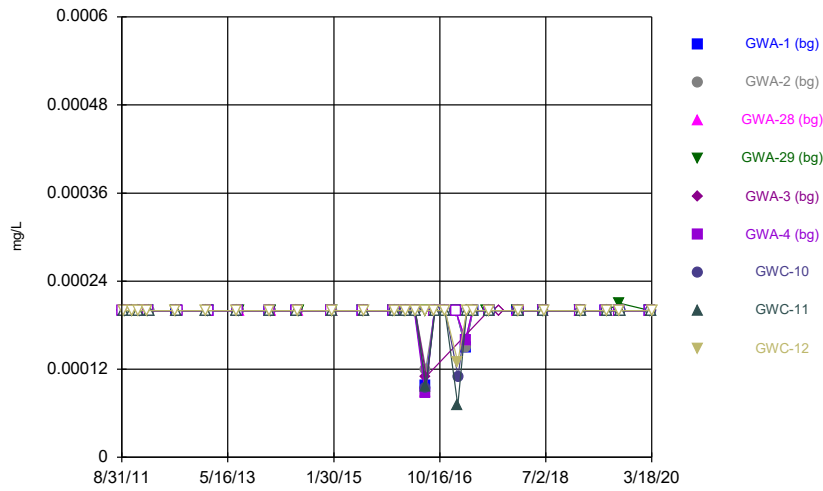
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	<0.001			
9/7/2011						<0.001	<0.001	<0.001
9/16/2011	<0.001	<0.001	<0.001					
10/27/2011				<0.001				
10/30/2011	<0.001				<0.001	<0.001	<0.001	<0.001
10/31/2011		<0.001	<0.001					
12/4/2011								<0.001
12/5/2011				<0.001	<0.001	<0.001	<0.001	
12/12/2011		<0.001	<0.001					
12/13/2011	<0.001							
1/19/2012							<0.001	<0.001
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	<0.001					
7/16/2012		<0.001	<0.001					
7/17/2012	<0.001							
7/18/2012				<0.001		<0.001	<0.001	<0.001
7/24/2012					<0.001			
1/7/2013						<0.001	<0.001	
1/8/2013					<0.001			<0.001
1/9/2013				<0.001				
1/22/2013		<0.001	<0.001					
1/23/2013	<0.001							
7/2/2013			<0.001					
7/9/2013					<0.001	<0.001	<0.001	<0.001
7/17/2013	<0.001	<0.001		<0.001				
1/14/2014						<0.001	<0.001	<0.001
1/15/2014				<0.001	<0.001			
1/21/2014			<0.001					
1/23/2014	<0.001	<0.001						
6/24/2014						<0.001	<0.001	<0.001
6/25/2014		<0.001	<0.001	<0.001	<0.001			
1/13/2015				<0.001				
1/14/2015		<0.001	<0.001					
1/20/2015	<0.001				<0.001	<0.001	<0.001	<0.001
7/24/2015				<0.001	<0.001			
7/27/2015						<0.001	<0.001	<0.001
7/28/2015			<0.001					
7/29/2015	<0.001	<0.001						
1/20/2016				<0.001	<0.001			
1/21/2016		<0.001	<0.001					
1/25/2016	<0.001							
1/26/2016						<0.001	<0.001	<0.001
3/23/2016	<0.001							
3/24/2016		<0.001	<0.001					
3/28/2016				<0.001	<0.001			
3/29/2016						<0.001	<0.001	<0.001
5/23/2016		<0.001	<0.001	<0.001				
5/24/2016	<0.001				<0.001	<0.001	<0.001	<0.001
7/21/2016		<0.001	<0.001	<0.001	<0.001			
7/22/2016	<0.001					<0.001		
7/25/2016								<0.001
7/26/2016							<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

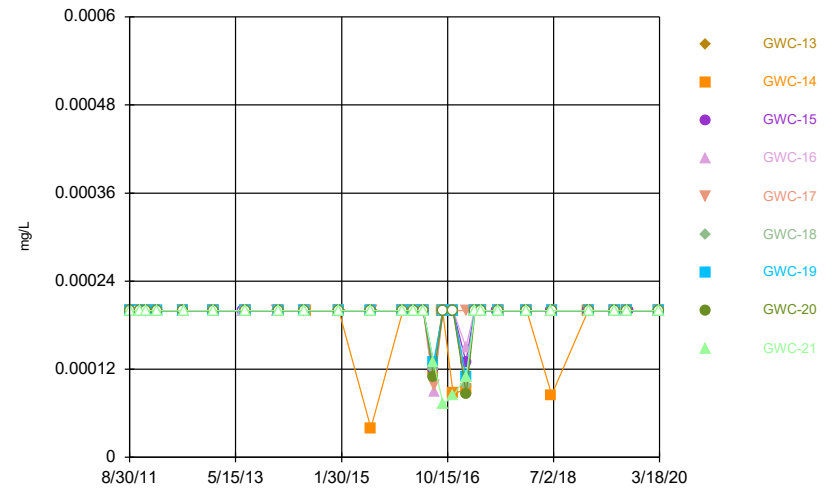
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.001	<0.001	<0.001	<0.001	<0.001		
9/16/2016	<0.001							
9/19/2016							<0.001	<0.001
11/15/2016		<0.001	<0.001	<0.001				
11/16/2016					<0.001	<0.001	<0.001	<0.001
11/17/2016	<0.001							
1/25/2017	<0.001	<0.001						
1/26/2017			<0.001	<0.001	<0.001	<0.001	<0.001	
1/31/2017								<0.001
3/22/2017		<0.001	<0.001	<0.001	<0.001	<0.001		
3/23/2017	<0.001						<0.001	<0.001
5/1/2017	<0.001	<0.001						
5/2/2017			<0.001	<0.001	<0.001	<0.001		<0.001
5/3/2017							<0.001	
8/3/2017		<0.001	<0.001	<0.001	<0.001			
8/4/2017	<0.001					<0.001		
8/7/2017							<0.001	<0.001
1/23/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1/24/2018							<0.001	<0.001
6/19/2018			<0.001					
6/20/2018		<0.001						
6/21/2018							0.00036 (J)	<0.001
6/25/2018				<0.001	<0.001	<0.001		
6/26/2018	<0.001							
1/21/2019			<0.001			<0.001		
1/22/2019							<0.001	<0.001
1/28/2019		0.00022 (J)						
1/30/2019	<0.001			0.00014 (J)	<0.001			
6/25/2019						<0.001	<0.001	<0.001
6/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
9/10/2019						<0.001	<0.001	
9/11/2019		<0.001						
9/12/2019	0.00031 (J)		<0.001	<0.001	<0.001			
9/16/2019								<0.001
3/11/2020		<0.001	<0.001					
3/12/2020	0.00015 (J)					<0.001	0.00028 (J)	
3/16/2020				<0.001	<0.001			0.00025 (J)

Time Series



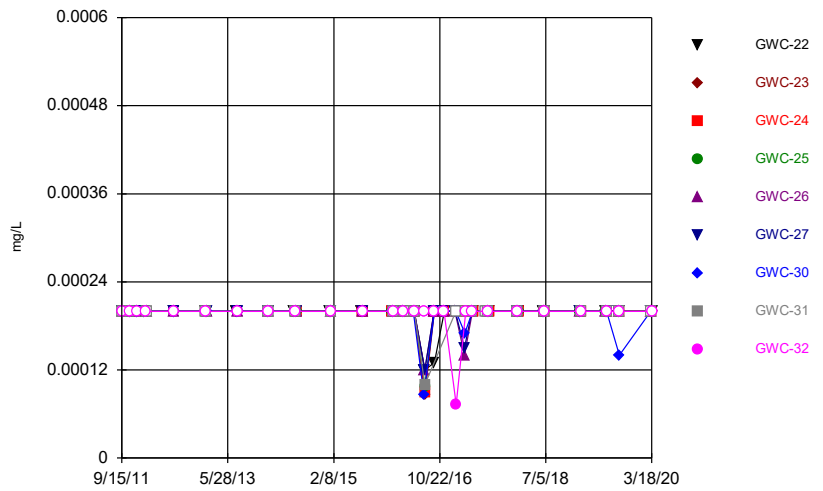
Constituent: Mercury Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



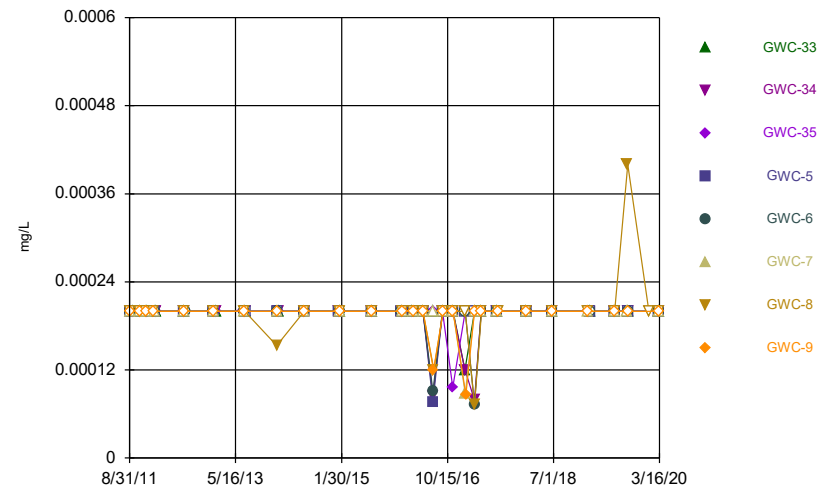
Constituent: Mercury Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Mercury Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Mercury Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.0002	<0.0002			
9/13/2011								<0.0002	<0.0002
9/16/2011	<0.0002		<0.0002						
9/17/2011		<0.0002		<0.0002					
10/27/2011	<0.0002	<0.0002				<0.0002			
10/28/2011			<0.0002	<0.0002				<0.0002	<0.0002
12/4/2011								<0.0002	<0.0002
12/12/2011			<0.0002	<0.0002					
12/13/2011	<0.0002								
12/14/2011		<0.0002				<0.0002			
1/24/2012									<0.0002
1/25/2012			<0.0002						
1/31/2012	<0.0002			<0.0002					
2/1/2012						<0.0002			
2/7/2012		<0.0002							
2/9/2012								<0.0002	
7/11/2012									<0.0002
7/16/2012			<0.0002						
7/17/2012				<0.0002					
7/18/2012	<0.0002							<0.0002	
7/23/2012		<0.0002				<0.0002			
1/8/2013								<0.0002	<0.0002
1/23/2013		<0.0002				<0.0002			
1/24/2013	<0.0002		<0.0002	<0.0002					
7/9/2013								<0.0002	
7/10/2013									<0.0002
7/17/2013	<0.0002					<0.0002			
7/23/2013			<0.0002						
7/24/2013		<0.0002		<0.0002					
1/15/2014						<0.0002		<0.0002	
1/21/2014	<0.0002								<0.0002
1/22/2014		<0.0002	<0.0002	<0.0002					
6/25/2014	<0.0002				<0.0002	<0.0002		<0.0002	
7/1/2014		<0.0002	<0.0002						<0.0002
7/8/2014				<0.0002 (D)					
1/14/2015	<0.0002					<0.0002			
1/21/2015			<0.0002	<0.0002				<0.0002	<0.0002
1/22/2015		<0.0002							
7/21/2015	<0.0002		<0.0002		<0.0002	<0.0002			
7/22/2015		<0.0002		<0.0002					
7/28/2015								<0.0002	<0.0002
1/19/2016				<0.0002 (D)					
1/20/2016		<0.0002				<0.0002			
1/21/2016	<0.0002								
1/22/2016			<0.0002						
1/25/2016							<0.0002		
1/26/2016								<0.0002	<0.0002
3/22/2016			<0.0002	<0.0002					
3/23/2016	<0.0002	<0.0002				<0.0002			
3/29/2016								<0.0002	<0.0002
3/30/2016							<0.0002		
3/31/2016					<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				<0.0002		<0.0002			
5/20/2016	<0.0002								
5/23/2016			<0.0002						
5/24/2016		<0.0002							
5/25/2016					<0.0002		<0.0002	<0.0002	<0.0002
7/21/2016	9.7E-05 (J)			<0.0002		8.7E-05 (J)			
7/22/2016									<0.0002
7/25/2016			8.9E-05 (J)					9.6E-05 (J)	
7/26/2016		0.00012 (J)							
7/27/2016					0.00011 (J)		9.4E-05 (J)		
9/14/2016						<0.0002			
9/15/2016	<0.0002		<0.0002						<0.0002
9/16/2016		<0.0002					<0.0002		
9/19/2016								<0.0002	
11/9/2016			<0.0002						
11/10/2016		<0.0002					<0.0002		
11/11/2016	<0.0002								
11/16/2016								<0.0002	<0.0002
11/17/2016							<0.0002		
1/17/2017			<0.0002	<0.0002		<0.0002			
1/19/2017	<0.0002	<0.0002							
1/31/2017								7.1E-05 (J)	0.00013 (J)
2/1/2017							0.00011 (J)		
3/16/2017	0.00015 (J)		0.00016 (J)			0.00016 (J)			
3/17/2017		0.00015 (J)							
3/23/2017								<0.0002	<0.0002
3/24/2017							<0.0002		
4/27/2017			<0.0002	<0.0002		<0.0002			
4/28/2017	<0.0002	<0.0002							
5/2/2017								<0.0002	
5/3/2017							<0.0002		<0.0002
7/18/2017				<0.0002					
8/1/2017			<0.0002	<0.0002	<0.0002				
8/2/2017		<0.0002					<0.0002		
8/3/2017	<0.0002								
8/7/2017								<0.0002	<0.0002
8/8/2017							<0.0002		
10/3/2017					<0.0002				
1/19/2018	<0.0002	<0.0002	<0.0002	<0.0002					
1/22/2018						<0.0002			
1/24/2018								<0.0002	<0.0002
1/25/2018							<0.0002		
6/19/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002			
6/20/2018					<0.0002			<0.0002	
6/21/2018							<0.0002		
6/26/2018									<0.0002
1/17/2019	<0.0002	<0.0002				<0.0002			
1/18/2019				<0.0002	<0.0002				
1/21/2019			<0.0002						
1/24/2019								<0.0002	
1/25/2019									<0.0002
1/31/2019							<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/4/2017								<0.0002	<0.0002
8/4/2017	<0.0002		<0.0002						
8/7/2017		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/25/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
1/26/2018								<0.0002	<0.0002
6/20/2018	<0.0002	8.5E-05 (J)	<0.0002	<0.0002					<0.0002
6/21/2018						<0.0002	<0.0002	<0.0002	
6/26/2018					<0.0002				
1/22/2019	<0.0002	<0.0002	<0.0002						
1/24/2019					<0.0002				<0.0002
1/25/2019				<0.0002					
1/28/2019						<0.0002	<0.0002	<0.0002	
6/25/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
6/26/2019							<0.0002		
6/27/2019						<0.0002			
9/11/2019				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
9/12/2019	<0.0002	<0.0002					<0.0002		
9/17/2019			<0.0002						
3/12/2020	<0.0002								
3/16/2020			<0.0002						
3/17/2020		<0.0002		<0.0002	<0.0002	<0.0002			
3/18/2020							<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.0002						<0.0002		<0.0002
9/16/2011		<0.0002							
9/17/2011				<0.0002	<0.0002	<0.0002		<0.0002	
10/28/2011							<0.0002		
10/29/2011	<0.0002	<0.0002			<0.0002	<0.0002			
10/31/2011				<0.0002				<0.0002	<0.0002
12/13/2011	<0.0002	<0.0002					<0.0002		<0.0002
12/14/2011				<0.0002	<0.0002	<0.0002			
1/25/2012	<0.0002					<0.0002			
1/31/2012		<0.0002							
2/1/2012									<0.0002
2/7/2012				<0.0002	<0.0002			<0.0002	
2/8/2012							<0.0002		
7/17/2012				<0.0002	<0.0002	<0.0002			<0.0002
7/18/2012	<0.0002	<0.0002					<0.0002		
1/22/2013	<0.0002	<0.0002							
1/23/2013								<0.0002	<0.0002
1/24/2013					<0.0002	<0.0002	<0.0002		
7/16/2013	<0.0002								
7/23/2013		<0.0002							
7/24/2013				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/21/2014	<0.0002								
1/22/2014		<0.0002							
1/23/2014				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/25/2014	<0.0002								
7/1/2014		<0.0002					<0.0002	<0.0002	<0.0002
7/8/2014			<0.0002	<0.0002	<0.0002	<0.0002			
1/14/2015	<0.0002								
1/20/2015							<0.0002		<0.0002
1/21/2015				<0.0002	<0.0002	<0.0002		<0.0002	
1/22/2015		<0.0002							
7/23/2015	<0.0002								
7/29/2015		<0.0002							
7/30/2015				<0.0002		<0.0002	<0.0002		<0.0002
7/31/2015			<0.0002		<0.0002				
1/19/2016							<0.0002		
1/20/2016			<0.0002						
1/21/2016		<0.0002		<0.0002					
1/22/2016						<0.0002			
1/25/2016					<0.0002			<0.0002	<0.0002
1/26/2016	<0.0002								
3/23/2016						<0.0002	<0.0002		<0.0002
3/24/2016					<0.0002				
3/28/2016				<0.0002					
3/29/2016		<0.0002							
3/30/2016			<0.0002					<0.0002	
3/31/2016	<0.0002								
5/20/2016							<0.0002		
5/24/2016						<0.0002			<0.0002
5/25/2016		<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	
5/26/2016	<0.0002								
7/21/2016							8.6E-05 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									<0.0002
7/26/2016	0.00012 (J)				0.00012 (J)	0.00012 (J)			
7/27/2016		8.6E-05 (J)	9E-05 (J)	9.8E-05 (J)				0.0001 (J)	
9/16/2016			<0.0002						<0.0002
9/19/2016				<0.0002	<0.0002	<0.0002			
9/20/2016	0.00013 (J)	<0.0002					<0.0002		
11/11/2016						<0.0002			
11/14/2016					<0.0002		<0.0002		
11/15/2016				<0.0002					<0.0002
11/17/2016	<0.0002								
11/18/2016		<0.0002	<0.0002						
1/19/2017					<0.0002				
1/20/2017						<0.0002			
1/24/2017				<0.0002			<0.0002		
1/25/2017								<0.0002	
1/26/2017									7.3E-05 (J)
2/3/2017	<0.0002	<0.0002	<0.0002						
3/16/2017					0.00014 (J)	0.00015 (J)			
3/17/2017							0.00017 (J)		
3/23/2017				<0.0002				<0.0002	
3/24/2017									<0.0002
3/28/2017	<0.0002	<0.0002							
3/29/2017			<0.0002						
4/28/2017						<0.0002			
5/1/2017					<0.0002		<0.0002		
5/2/2017				<0.0002				<0.0002	<0.0002
5/3/2017	<0.0002								
5/4/2017		<0.0002	<0.0002						
7/19/2017								<0.0002	
8/3/2017				<0.0002	<0.0002	<0.0002			<0.0002
8/4/2017							<0.0002	<0.0002	
8/8/2017	<0.0002	<0.0002	<0.0002						
1/19/2018						<0.0002			
1/22/2018					<0.0002				
1/23/2018								<0.0002	<0.0002
1/24/2018							<0.0002		
1/25/2018	<0.0002	<0.0002	<0.0002	<0.0002					
6/20/2018	<0.0002	<0.0002							
6/21/2018							<0.0002		
6/26/2018									<0.0002
6/27/2018			<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
1/24/2019	<0.0002			<0.0002	<0.0002	<0.0002			
1/25/2019		<0.0002							
1/30/2019							<0.0002		<0.0002
1/31/2019			<0.0002					<0.0002	
6/25/2019	<0.0002			<0.0002	<0.0002				
6/26/2019		<0.0002	<0.0002			<0.0002		<0.0002	
6/27/2019							<0.0002		<0.0002
9/10/2019	<0.0002						0.00014 (J)		
9/11/2019			<0.0002	<0.0002				<0.0002	
9/12/2019		<0.0002			<0.0002	<0.0002			<0.0002
3/11/2020							<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

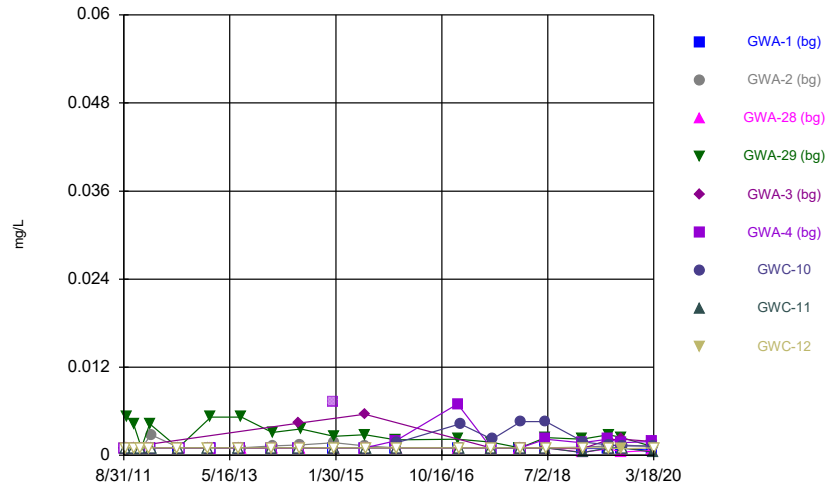
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.0002	<0.0002			
9/7/2011						<0.0002	<0.0002	<0.0002
9/16/2011	<0.0002	<0.0002	<0.0002					
10/27/2011				<0.0002				
10/30/2011	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
10/31/2011		<0.0002	<0.0002					
12/4/2011								<0.0002
12/5/2011				<0.0002	<0.0002	<0.0002	<0.0002	
12/12/2011		<0.0002	<0.0002					
12/13/2011	<0.0002							
1/19/2012							<0.0002	<0.0002
1/25/2012				<0.0002	<0.0002	<0.0002		
2/1/2012	<0.0002	<0.0002	<0.0002					
7/16/2012		<0.0002	<0.0002					
7/17/2012	<0.0002							
7/18/2012				<0.0002		<0.0002	<0.0002	<0.0002
7/24/2012					<0.0002			
1/7/2013						<0.0002	<0.0002	
1/8/2013					<0.0002			<0.0002
1/9/2013				<0.0002				
1/22/2013		<0.0002	<0.0002					
1/23/2013	<0.0002							
7/2/2013			<0.0002					
7/9/2013					<0.0002	<0.0002	<0.0002	<0.0002
7/17/2013	<0.0002	<0.0002		<0.0002				
1/14/2014						<0.0002	0.000153 (J)	<0.0002
1/15/2014				<0.0002	<0.0002			
1/21/2014			<0.0002					
1/23/2014	<0.0002	<0.0002						
6/24/2014						<0.0002	<0.0002	<0.0002
6/25/2014		<0.0002	<0.0002	<0.0002	<0.0002			
1/13/2015				<0.0002				
1/14/2015		<0.0002	<0.0002					
1/20/2015	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
7/24/2015				<0.0002	<0.0002			
7/27/2015						<0.0002	<0.0002	<0.0002
7/28/2015			<0.0002					
7/29/2015	<0.0002	<0.0002						
1/20/2016				<0.0002	<0.0002			
1/21/2016		<0.0002	<0.0002					
1/25/2016	<0.0002							
1/26/2016						<0.0002	<0.0002	<0.0002
3/23/2016	<0.0002							
3/24/2016		<0.0002	<0.0002					
3/28/2016				<0.0002	<0.0002			
3/29/2016						<0.0002	<0.0002	<0.0002
5/23/2016		<0.0002	<0.0002	<0.0002				
5/24/2016	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
7/21/2016		8.4E-05 (J)	<0.0002	7.6E-05 (J)	9.1E-05 (J)			
7/22/2016	<0.0002					<0.0002		
7/25/2016								0.00012 (J)
7/26/2016							0.00012 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

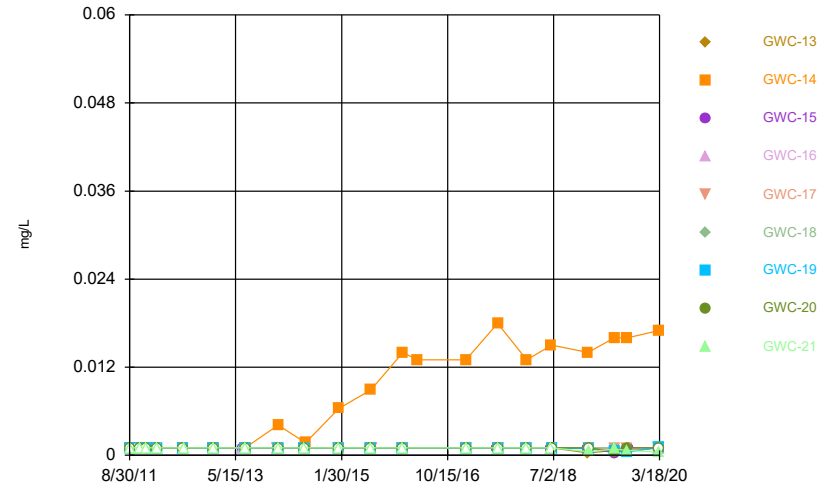
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/16/2016	<0.0002							
9/19/2016							<0.0002	<0.0002
11/15/2016		<0.0002	9.6E-05 (J)	<0.0002				
11/16/2016					<0.0002	<0.0002	<0.0002	<0.0002
11/17/2016	<0.0002							
1/25/2017	0.00012 (J)	0.00012 (J)						
1/26/2017			<0.0002	<0.0002	<0.0002	8.8E-05 (J)	<0.0002	
1/31/2017								8.6E-05 (J)
3/22/2017		7.9E-05 (J)	<0.0002	<0.0002	7.3E-05 (J)	<0.0002		
3/23/2017	<0.0002						7.2E-05 (J)	<0.0002
5/1/2017	<0.0002	<0.0002						
5/2/2017			<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
5/3/2017							<0.0002	
8/3/2017		<0.0002	<0.0002	<0.0002	<0.0002			
8/4/2017	<0.0002					<0.0002		
8/7/2017							<0.0002	<0.0002
1/23/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
1/24/2018							<0.0002	<0.0002
6/19/2018			<0.0002					
6/20/2018		<0.0002						
6/21/2018							<0.0002	<0.0002
6/25/2018				<0.0002	<0.0002	<0.0002		
6/26/2018	<0.0002							
1/21/2019			<0.0002			<0.0002		
1/22/2019							<0.0002	<0.0002
1/28/2019		<0.0002						
1/30/2019	<0.0002			<0.0002	<0.0002			
6/25/2019						<0.0002	<0.0002	<0.0002
6/26/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/10/2019						<0.0002	0.0004	
9/11/2019		<0.0002						
9/12/2019	<0.0002		<0.0002	<0.0002	<0.0002			
9/16/2019								<0.0002
1/13/2020							<0.0002	
3/11/2020		<0.0002	<0.0002					
3/12/2020	<0.0002					<0.0002	<0.0002	
3/16/2020				<0.0002	<0.0002			<0.0002

Time Series



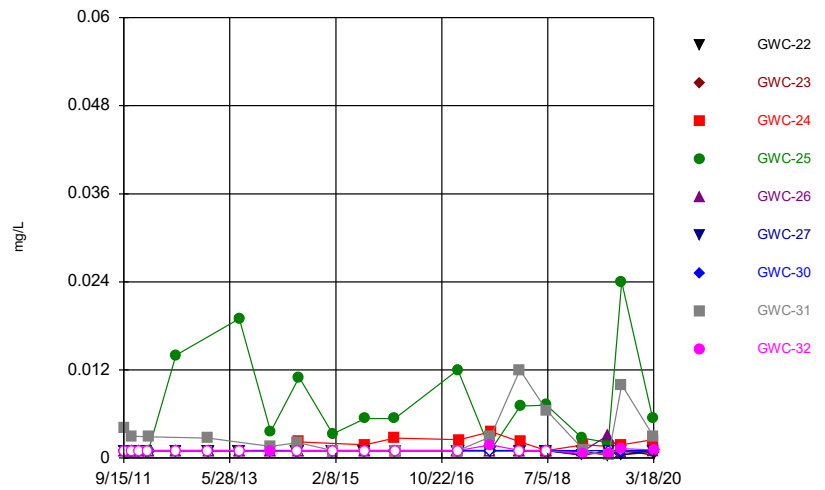
Constituent: Nickel Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



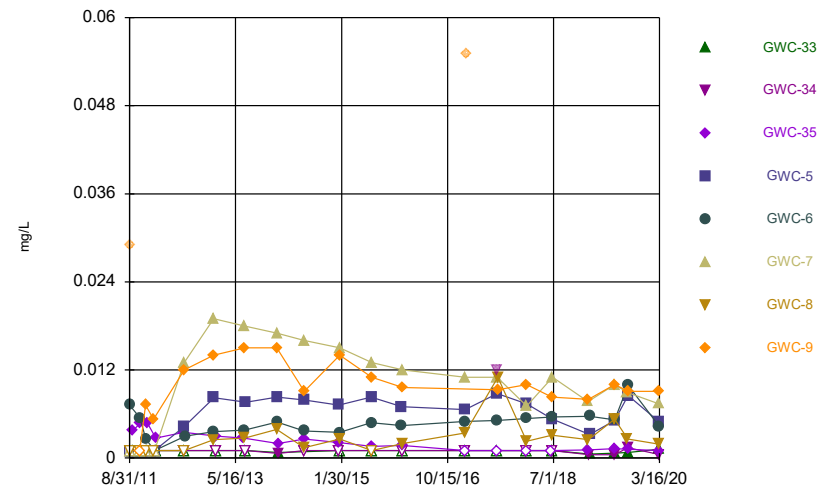
Constituent: Nickel Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Nickel Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Nickel Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								<0.001	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		0.0053					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	0.0042				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			0.0043					
2/1/2012						<0.001			
2/7/2012		0.0028							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							<0.001	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	0.0052					
7/9/2013								<0.001	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		0.0052					
1/15/2014						<0.001		<0.001	
1/21/2014	<0.001								<0.001
1/22/2014		0.0013 (J)	0.00092 (J)	0.0031					
6/25/2014	<0.001				0.0044	<0.001		<0.001	
7/1/2014		0.0014 (J)	<0.001						<0.001
7/8/2014				0.0036 (D)					
1/14/2015	<0.001					0.0073 (O)			
1/21/2015			<0.001	0.0026				<0.001	<0.001
1/22/2015		0.0017 (J)							
7/21/2015	<0.001		<0.001		0.0056	<0.001			
7/22/2015		0.0013 (J)		0.0028					
7/28/2015								<0.001	<0.001
1/19/2016				0.0021 (JD)					
1/20/2016		<0.001				0.002 (J)			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							0.0017 (J)		
1/26/2016								<0.001	<0.001
1/17/2017			<0.001	0.0022 (J)		0.007			
1/19/2017	<0.001	<0.001							
1/31/2017								<0.001	<0.001
2/1/2017							0.0043		
8/1/2017			<0.001	0.0018 (J)	<0.001				

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				<0.001	<0.001	<0.001	<0.001		
8/31/2011								<0.001	<0.001
9/13/2011	<0.001	<0.001							
9/16/2011			<0.001						
10/26/2011				<0.001	<0.001	<0.001	<0.001		
10/27/2011		<0.001	<0.001					<0.001	<0.001
10/28/2011	<0.001								
12/3/2011		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
12/4/2011	<0.001							<0.001	<0.001
1/24/2012	<0.001	<0.001							
1/25/2012				<0.001	<0.001				
2/8/2012							<0.001	<0.001	<0.001
2/9/2012			<0.001			<0.001			
7/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
7/17/2012									<0.001
1/8/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/9/2013									<0.001
7/2/2013			<0.001	<0.001					
7/10/2013	<0.001	<0.001							
7/16/2013					<0.001	<0.001	<0.001	<0.001	<0.001
1/14/2014				<0.001	<0.001	<0.001			
1/21/2014	<0.001	0.0041	<0.001				<0.001	<0.001	<0.001
6/24/2014			<0.001			<0.001	<0.001	<0.001	<0.001
6/25/2014				<0.001	<0.001				
7/1/2014	<0.001	0.0017 (J)							
1/13/2015				<0.001		<0.001	<0.001	<0.001	<0.001
1/14/2015		0.0064	<0.001		<0.001				
1/21/2015	<0.001								
7/22/2015		0.0089	<0.001	<0.001					
7/23/2015						<0.001	<0.001	<0.001	<0.001
7/28/2015	<0.001				<0.001				
1/26/2016									<0.001
1/27/2016	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/20/2016		0.013							
1/31/2017	<0.001								
2/1/2017		0.013	<0.001	<0.001	<0.001	<0.001			
2/2/2017							<0.001	<0.001	<0.001
8/4/2017	<0.001		<0.001						
8/7/2017		0.018		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/25/2018	<0.001	0.013	<0.001	<0.001	<0.001	<0.001	<0.001		
1/26/2018								<0.001	<0.001
6/20/2018	<0.001	0.015	<0.001	<0.001					<0.001
6/21/2018						<0.001	<0.001	<0.001	
6/26/2018					<0.001				
1/22/2019	0.00033 (J)	0.014	<0.001						
1/24/2019					<0.001				0.00051 (J)
1/25/2019				<0.001					
1/28/2019						<0.001	0.0009 (J)	<0.001	
6/25/2019	0.00068 (J)	0.016	0.00031 (J)	0.00067 (J)	0.00092 (J)			0.00048 (J)	0.00085 (J)
6/26/2019							0.00051 (J)		
6/27/2019						<0.001			
9/11/2019				0.00077 (J)	0.00092 (J)	0.00066 (J)		0.001	0.00066 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
9/12/2019	0.00055 (J)	0.016					0.00044 (J)		
9/17/2019			<0.001						
3/12/2020	<0.001								
3/16/2020			<0.001						
3/17/2020		0.017		<0.001	<0.001	<0.001			
3/18/2020							0.0011	<0.001	0.0004 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.001						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				<0.001	<0.001	<0.001		0.0041	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				0.003	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			0.0029	
2/8/2012							<0.001		
7/17/2012				0.014	<0.001	<0.001			<0.001
7/18/2012	<0.001	<0.001					<0.001		
1/22/2013	<0.001	<0.001							
1/23/2013								0.0027	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	<0.001								
7/23/2013		<0.001							
7/24/2013				0.019	<0.001	<0.001	<0.001		<0.001
1/21/2014	<0.001								
1/22/2014		<0.001							
1/23/2014				0.0036	<0.001	<0.001	<0.001	0.0016 (J)	0.00094 (J)
6/25/2014	<0.001								
7/1/2014		<0.001					<0.001	0.0021 (J)	<0.001
7/8/2014			0.0022 (J)	0.011	<0.001	<0.001			
1/14/2015	<0.001								
1/20/2015							<0.001		<0.001
1/21/2015				0.0033	<0.001	<0.001		<0.001	
1/22/2015		<0.001							
7/23/2015	<0.001								
7/29/2015		<0.001							
7/30/2015				0.0054		<0.001	<0.001		<0.001
7/31/2015			0.0018 (J)		<0.001				
1/19/2016							<0.001		
1/20/2016			0.0027						
1/21/2016		<0.001		0.0054					
1/22/2016						<0.001			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	<0.001								
1/19/2017					<0.001				
1/20/2017						<0.001			
1/24/2017				0.012			<0.001		
1/25/2017								<0.001	
1/26/2017									<0.001
2/3/2017	<0.001	<0.001	0.0025						
8/3/2017				<0.001	<0.001	<0.001			0.0018 (J)
8/4/2017							<0.001	0.0029	
8/8/2017	<0.001	<0.001	0.0036						
1/19/2018						<0.001			
1/22/2018					<0.001				

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

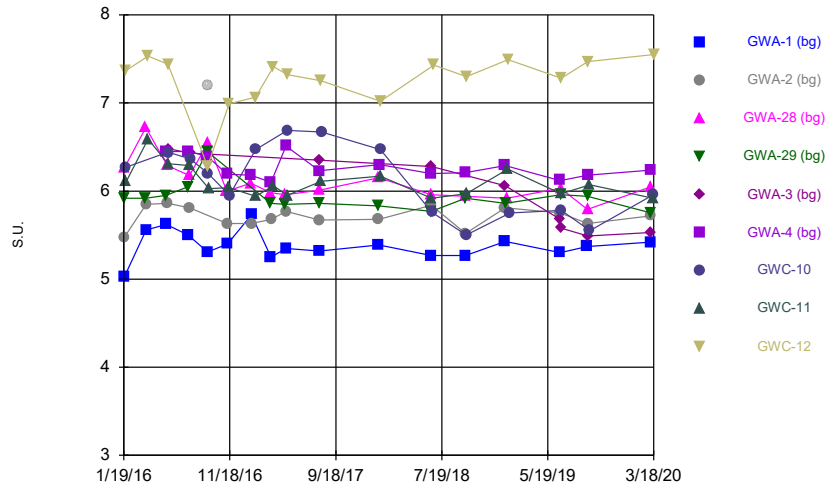
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	0.0072			
9/7/2011						<0.001	<0.001	0.029 (O)
9/16/2011	<0.001	<0.001	0.0037					
10/27/2011				<0.001				
10/30/2011	<0.001				0.0055	<0.001	<0.001	<0.001
10/31/2011		<0.001	0.0047					
12/4/2011								0.0072
12/5/2011				<0.001	0.0026	<0.001	<0.001	
12/12/2011		<0.001	0.0048					
12/13/2011	<0.001							
1/19/2012							<0.001	0.0053
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	0.0027					
7/16/2012		<0.001	0.0035					
7/17/2012	<0.001							
7/18/2012				0.0043		0.013	<0.001	0.012
7/24/2012					0.003			
1/7/2013						0.019	0.0025	
1/8/2013					0.0036			0.014
1/9/2013				0.0082				
1/22/2013		<0.001	0.003					
1/23/2013	<0.001							
7/2/2013			0.0027					
7/9/2013					0.0038	0.018	0.0027	0.015
7/17/2013	<0.001	<0.001		0.0076				
1/14/2014						0.017	0.0039	0.015
1/15/2014				0.0083	0.0049			
1/21/2014			0.002 (J)					
1/23/2014	0.00078 (J)	0.00062 (J)						
6/24/2014						0.016	0.0014 (J)	0.0091
6/25/2014		<0.001	0.0026	0.0079	0.0037			
1/13/2015				0.0072				
1/14/2015		<0.001	0.0021 (J)					
1/20/2015	<0.001				0.0035	0.015	0.0026	0.014
7/24/2015				0.0083	0.0048			
7/27/2015						0.013	<0.001	0.011
7/28/2015			0.0016 (J)					
7/29/2015	<0.001	<0.001						
1/20/2016				0.007	0.0044			
1/21/2016		<0.001	0.0017 (J)					
1/25/2016	<0.001							
1/26/2016						0.012	0.002 (J)	0.0096
1/25/2017	<0.001	<0.001						
1/26/2017			<0.001	0.0066	0.005	0.011	0.0034	
1/31/2017								0.055 (O)
8/3/2017		0.012 (O)	<0.001	0.0088	0.0051			
8/4/2017	<0.001					0.011		
8/7/2017							0.011	0.0093
1/23/2018	<0.001	<0.001	<0.001	0.0074	0.0054	0.0071		
1/24/2018							0.0023 (J)	0.01
6/19/2018			<0.001					
6/20/2018		<0.001						

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

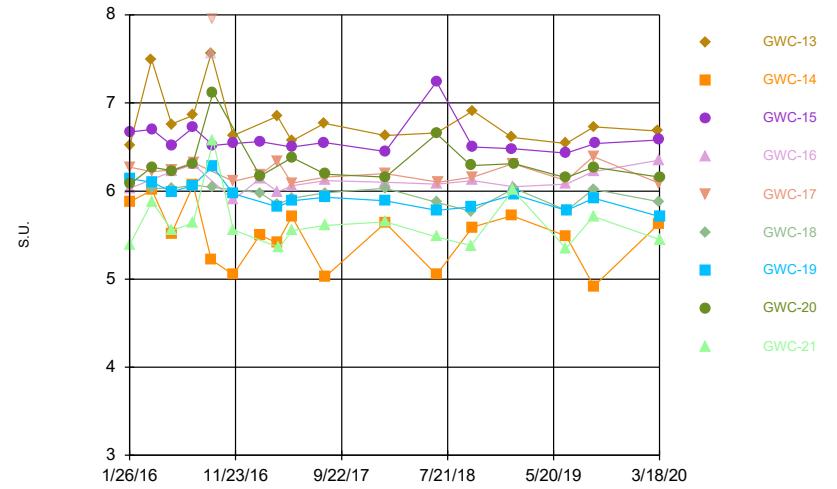
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
6/21/2018							0.0031	0.0083
6/25/2018				0.0053	0.0056	0.011		
6/26/2018	<0.001							
1/21/2019			0.0011			0.0077		
1/22/2019							0.0025	0.008
1/28/2019		0.00047 (J)						
1/30/2019	0.00054 (J)			0.0032	0.0057			
6/25/2019						0.01	0.0053	0.01
6/26/2019	0.00068 (J)	0.00047 (J)	0.0013	0.0051	0.0052			
9/10/2019						0.0089	0.0026	
9/11/2019		0.0014						
9/12/2019	0.00078 (J)		0.0012	0.0085	0.0099			
9/16/2019								0.0091
3/11/2020		0.0005 (J)	0.001					
3/12/2020	0.0012					0.0074	0.0019	
3/16/2020				0.0049	0.0043			0.0091

Time Series



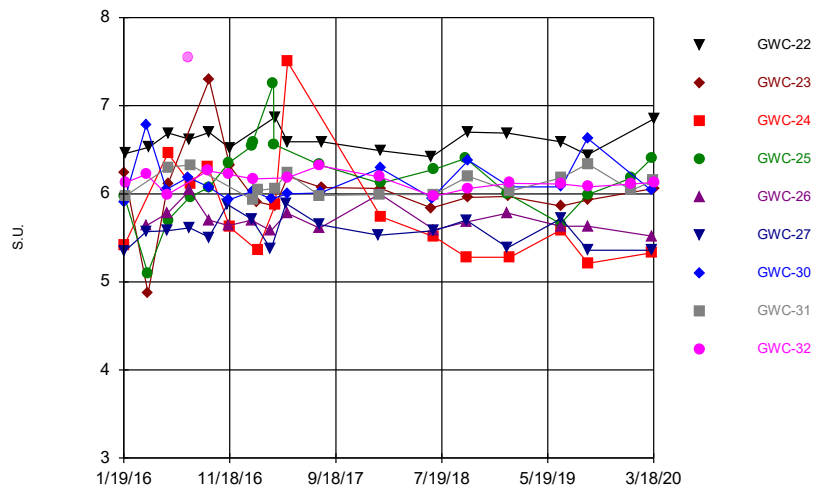
Constituent: pH, Field Analysis Run 5/20/2020 1:28 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



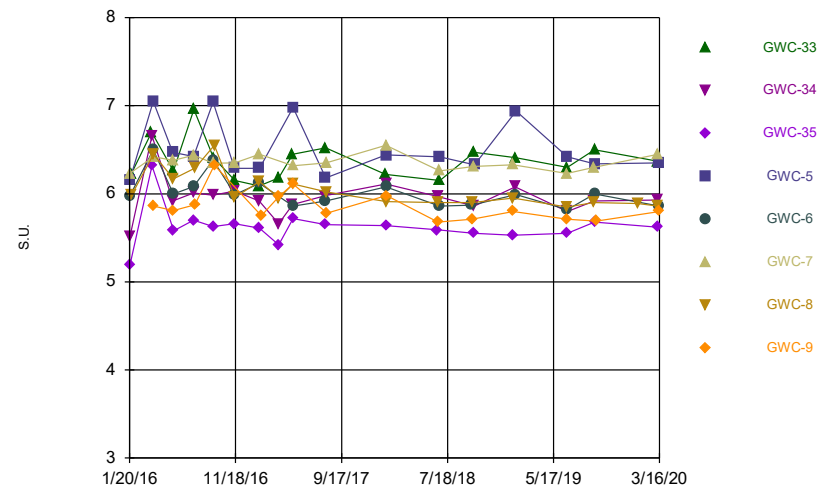
Constituent: pH, Field Analysis Run 5/20/2020 1:28 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: pH, Field Analysis Run 5/20/2020 1:28 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: pH, Field Analysis Run 5/20/2020 1:28 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
1/19/2016				5.92					
1/20/2016		5.47							
1/21/2016	5.03								
1/22/2016			6.27						
1/25/2016							6.27		
1/26/2016								6.11	7.37
3/22/2016			6.72	5.92					
3/23/2016	5.56	5.85							
3/29/2016								6.59	7.53
5/19/2016				5.95		6.45			
5/20/2016	5.62								
5/23/2016			6.29						
5/24/2016		5.86							
5/25/2016					6.48		6.44	6.31	7.44
7/21/2016	5.500376			6.049508		6.449699			
7/25/2016			6.178217					6.287783	
7/26/2016		5.808275							
7/27/2016					6.43219		6.364588		
9/14/2016						6.396439			
9/15/2016	5.31	7.195292 (O)		6.444541					6.283325
9/16/2016			6.545359				6.202937		
9/19/2016								6.027665	
11/9/2016			6						
11/10/2016		5.63				6.19			
11/11/2016	5.4								
11/16/2016								6.04	6.99
11/17/2016							5.95		
1/17/2017			6.09			6.18			
1/19/2017	5.73	5.63							
1/31/2017							6.47	5.94	7.065 (D)
3/15/2017				5.86					
3/16/2017	5.25		5.98			6.1			
3/17/2017		5.68							
3/23/2017								6.06	7.41
4/27/2017			5.96	5.85					
4/28/2017	5.35	5.77				6.51			
5/2/2017							6.69	5.95	
5/3/2017									7.32
8/1/2017			6.01 (D)	5.86 (D)	6.35 (D)				
8/2/2017		5.67 (D)				6.23 (D)			
8/3/2017	5.32 (D)								
8/7/2017								6.11 (D)	7.25 (D)
8/8/2017							6.67 (D)		
1/19/2018	5.39 (D)	5.68 (D)	6.15 (D)	5.83 (D)					
1/22/2018						6.3 (D)			
1/24/2018							6.47 (D)	6.17 (D)	7.02 (D)
6/19/2018	5.27	5.84	5.96	5.77		6.2			
6/20/2018					6.28			5.92	
6/21/2018							5.76		
6/26/2018									7.43
9/25/2018	5.27	5.52	5.94	5.92		6.21			
9/27/2018							5.5	5.97	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
1/26/2016									5.39
1/27/2016	6.52	5.88	6.67	6.03	6.27		6.14	6.08	
3/29/2016	7.49								
3/30/2016		6.01	6.7		6.22	6.03	6.1	6.27	5.88
5/25/2016	6.76	5.52	6.52	6.22	6.24				
5/26/2016						6.03	5.99	6.23	5.55
7/25/2016						6.066342	6.063209	6.3145	
7/26/2016	6.859244	6.066915	6.719922						5.64011
7/27/2016				6.30178	6.321385				
9/15/2016	7.565879	5.220961							
9/16/2016				7.5561 (O)					
9/19/2016					7.948709 (O)	6.040669	6.276656		
9/20/2016			6.519229					7.120962	6.575025
11/17/2016	6.63	5.05	6.54	5.9	6.11		5.97		5.56
2/1/2017		5.5	6.56	6.14	6.18	5.98			
2/2/2017								6.17	
3/23/2017	6.85	5.41							
3/24/2017				5.99	6.34	5.85	5.82		
3/28/2017									5.36
5/3/2017	6.57	5.71	6.5	6.06	6.09	5.92	5.89		
5/4/2017								6.38	5.55
8/4/2017	6.77 (D)		6.55 (D)						
8/7/2017		5.03 (D)		6.12 (D)	6.16 (D)	5.98 (D)	5.93 (D)	6.19 (D)	5.61 (D)
1/25/2018	6.63 (D)	5.64 (D)	6.45 (D)	6.1 (D)	6.2 (D)	6.03 (D)	5.89 (D)		
1/26/2018								6.16 (D)	5.65 (D)
6/20/2018	6.66	5.05	7.24	6.08					5.48
6/21/2018						5.87	5.78	6.65	
6/26/2018					6.1				
9/27/2018							5.82	6.29	5.38
9/28/2018						5.77			
10/1/2018		5.59	6.5	6.12					
10/2/2018	6.91				6.16				
1/22/2019	6.61	5.72	6.48						
1/24/2019						6.31			6.01
1/25/2019				6.05					
1/28/2019						6.03	5.96	6.31	
6/25/2019	6.54	5.49	6.43	6.08	6.12			6.15	5.35
6/26/2019							5.78		
6/27/2019						5.78			
9/11/2019				6.22	6.39	6.02		6.27	5.71
9/12/2019	6.73	4.92					5.92		
9/17/2019			6.54						
3/12/2020	6.68								
3/16/2020			6.58						
3/17/2020		5.63		6.35	6.09	5.88			
3/18/2020							5.71	6.16	5.45

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
1/19/2016							5.9		
1/20/2016			5.41	5.98					
1/21/2016		6.24							
1/22/2016						5.35			
1/25/2016								5.98	6.13
1/26/2016	6.46								
3/23/2016						5.57	6.78		6.22
3/24/2016					5.64				
3/28/2016				5.1					
3/29/2016		4.87							
3/31/2016	6.53								
5/20/2016							6.05		
5/23/2016									5.99
5/24/2016					5.78	5.58			
5/25/2016		6.11	6.46	5.7				6.3	
5/26/2016	6.69								
7/21/2016							6.188237		
7/22/2016									7.552699 (O)
7/26/2016	6.620398				6.038068	5.614371			
7/27/2016			6.119047	5.966094				6.327805	
9/16/2016			6.310241						6.260319
9/19/2016				6.070052		5.506855			
9/20/2016	6.696588	7.295281			5.701864		6.075727		
11/11/2016						5.88			
11/14/2016					5.64		5.93		
11/15/2016				6.35					6.22
11/17/2016	6.52								
11/18/2016		6.32	5.62						
1/19/2017					5.7				
1/20/2017				6.54		5.71			
1/23/2017				6.59					
1/24/2017							6.03 (D)	5.93	
1/25/2017									6.17
2/3/2017		5.91							
2/6/2017			5.36					6.04	
3/16/2017					5.58	5.37			
3/17/2017							5.94		
3/23/2017				7.25					
3/24/2017				6.56					
3/28/2017	6.87	5.86	5.87					6.06	
4/28/2017						5.89			
5/1/2017					5.78		6	6.24	6.18
5/3/2017	6.59		7.5						
5/4/2017		6.2							
8/3/2017				6.33 (D)	5.61 (D)	5.65 (D)		5.98 (D)	6.32 (D)
8/4/2017							6.01 (D)		
8/8/2017	6.59 (D)	6.07 (D)							
1/19/2018						5.53 (D)			
1/22/2018					6 (D)			5.99 (D)	6.19 (D)
1/24/2018				6.12 (D)			6.29 (D)		
1/25/2018	6.49 (D)	6.06 (D)	5.74 (D)						
6/20/2018	6.42	5.84							

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

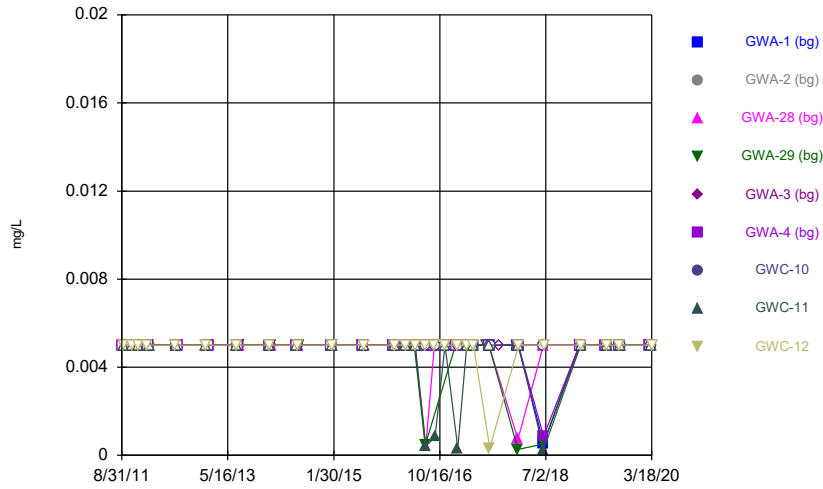
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
1/20/2016				6.15	5.97	6.23		
1/21/2016		5.51	5.19					
1/25/2016	6.23							
1/26/2016							5.99	
3/23/2016	6.7							
3/24/2016		6.66	6.32					
3/28/2016				7.05	6.5			
3/29/2016						6.42	6.45	5.86
5/23/2016		5.92		6.47				
5/24/2016	6.26				6	6.38	6.17	5.81
5/25/2016			5.58					
7/21/2016		6.008569	5.701591	6.424029	6.08222			
7/22/2016	6.956045					6.438562		
7/25/2016								5.876175
7/26/2016							6.291124	
9/15/2016		5.982305	5.629095	7.042684	6.383623	6.347438		
9/16/2016	6.411956							
9/19/2016							6.550086	6.323668
11/15/2016		6.03	5.66	6.29				
11/16/2016	6.15				5.99	6.35	5.96	
1/25/2017	6.09	5.92						
1/26/2017			5.61	6.29	6.12	6.45	6.14	
1/31/2017								5.75
3/22/2017	6.18	5.66	5.42					
3/23/2017							5.95	5.97
5/1/2017	6.45	5.88						
5/2/2017			5.72	6.98	5.86	6.32	6.11	6.11
8/3/2017	6.52 (D)	5.98 (D)	5.65 (D)	6.18 (D)	5.92 (D)			
8/4/2017						6.35 (D)		
8/7/2017							6.02 (D)	5.78 (D)
1/22/2018	6.22 (D)							
1/23/2018		6.11 (D)	5.64 (D)	6.44 (D)	6.08 (D)	6.55 (D)		
1/24/2018							5.91 (D)	5.98 (D)
6/19/2018			5.59					
6/20/2018		5.97						
6/21/2018							5.9	5.68
6/25/2018				6.42	5.86	6.26		
6/26/2018	6.15							
9/25/2018					5.87			
9/26/2018							5.9	5.71
10/1/2018			5.55					
10/2/2018	6.47	5.86				6.31		
10/3/2018				6.33				
1/21/2019			5.53			6.33		
1/22/2019							5.95	5.8
1/28/2019		6.08						
1/30/2019	6.41			6.94	5.99			
6/25/2019						6.23	5.85	5.71
6/26/2019	6.3	5.8	5.55	6.42	5.82			
9/10/2019						6.3	5.9	
9/11/2019		5.92						
9/12/2019	6.5		5.68	6.34	6			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

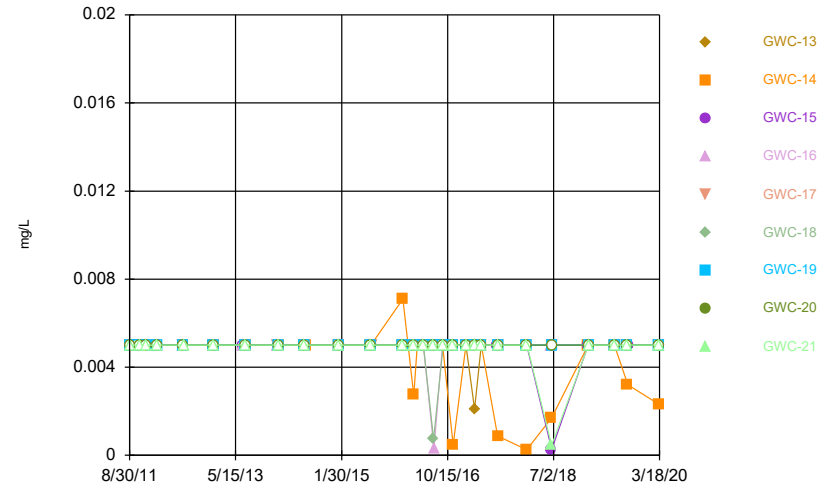
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/16/2019								5.69
1/13/2020							5.89	
3/11/2020		5.93	5.62					
3/12/2020	6.37					6.45	5.86	
3/16/2020				6.35	5.86			5.8

Time Series



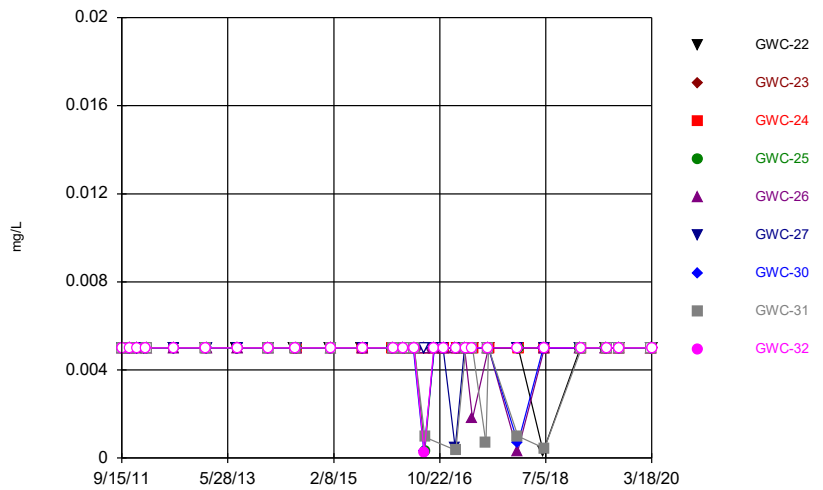
Constituent: Selenium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



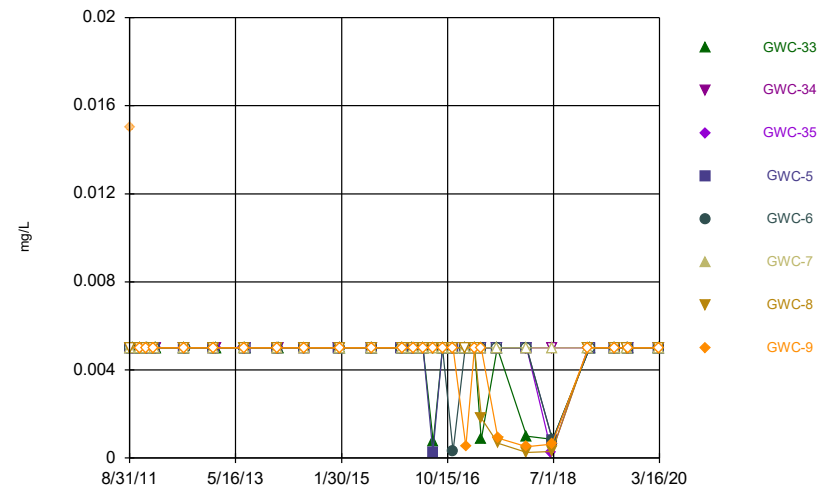
Constituent: Selenium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Selenium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Selenium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.005	<0.005			
9/13/2011								<0.005	<0.005
9/16/2011	<0.005		<0.005						
9/17/2011		<0.005		<0.005					
10/27/2011	<0.005	<0.005				<0.005			
10/28/2011			<0.005	<0.005				<0.005	<0.005
12/4/2011								<0.005	<0.005
12/12/2011			<0.005	<0.005					
12/13/2011	<0.005								
12/14/2011		<0.005				<0.005			
1/24/2012									<0.005
1/25/2012			<0.005						
1/31/2012	<0.005			<0.005					
2/1/2012						<0.005			
2/7/2012		<0.005							
2/9/2012								<0.005	
7/11/2012									<0.005
7/16/2012			<0.005						
7/17/2012				<0.005					
7/18/2012	<0.005							<0.005	
7/23/2012		<0.005				<0.005			
1/8/2013								<0.005	<0.005
1/23/2013		<0.005				<0.005			
1/24/2013	<0.005		<0.005	<0.005					
7/9/2013								<0.005	
7/10/2013									<0.005
7/17/2013	<0.005					<0.005			
7/23/2013			<0.005						
7/24/2013		<0.005		<0.005					
1/15/2014						<0.005		<0.005	
1/21/2014	<0.005								<0.005
1/22/2014		<0.005	<0.005	<0.005					
6/25/2014	<0.005				<0.005	<0.005		<0.005	
7/1/2014		<0.005	<0.005						<0.005
7/8/2014				<0.005 (D)					
1/14/2015	<0.005					<0.005			
1/21/2015			<0.005	<0.005				<0.005	<0.005
1/22/2015		<0.005							
7/21/2015	<0.005		<0.005		<0.005	<0.005			
7/22/2015		<0.005		<0.005					
7/28/2015								<0.005	<0.005
1/19/2016				<0.005 (D)					
1/20/2016		<0.005				<0.005			
1/21/2016	<0.005								
1/22/2016			<0.005						
1/25/2016							<0.005		
1/26/2016								<0.005	<0.005
3/22/2016			<0.005	<0.005					
3/23/2016	<0.005	<0.005				<0.005			
3/29/2016								<0.005	<0.005
3/30/2016							<0.005		
3/31/2016					<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/19/2016				<0.005		<0.005			
5/20/2016	<0.005								
5/23/2016			<0.005						
5/24/2016		<0.005							
5/25/2016					<0.005		<0.005	<0.005	<0.005
7/21/2016	<0.005			0.00045 (J)		<0.005			
7/22/2016									<0.005
7/25/2016			0.0004 (J)					0.00041 (J)	
7/26/2016		<0.005							
7/27/2016					<0.005		<0.005		
9/14/2016						<0.005			
9/15/2016	<0.005		<0.005						<0.005
9/16/2016		<0.005					<0.005		
9/19/2016								0.00084 (J)	
11/9/2016			<0.005						
11/10/2016		<0.005				<0.005			
11/11/2016	<0.005								
11/16/2016								<0.005	<0.005
11/17/2016							<0.005		
1/17/2017			<0.005	<0.005		<0.005			
1/19/2017	<0.005	<0.005							
1/31/2017								0.00033 (J)	<0.005
2/1/2017							<0.005		
3/16/2017	<0.005		<0.005			<0.005			
3/17/2017		<0.005							
3/23/2017								<0.005	<0.005
3/24/2017							<0.005		
4/27/2017			<0.005	<0.005		<0.005			
4/28/2017	<0.005	<0.005						<0.005	
5/2/2017								<0.005	
5/3/2017							<0.005		<0.005
7/18/2017				<0.005					
8/1/2017			<0.005	<0.005 (*)	<0.005 (*)				
8/2/2017		<0.005				<0.005			
8/3/2017	<0.005								
8/7/2017								<0.005	0.00032 (J)
8/8/2017							<0.005		
10/3/2017					<0.005				
1/19/2018	<0.005	<0.005	0.00073 (J)	0.00027 (J)					
1/22/2018						<0.005			
1/24/2018								<0.005	<0.005
1/25/2018							<0.005		
6/19/2018	0.00054 (J)	<0.005	<0.005	0.00051 (J)		0.00086 (J)			
6/20/2018					<0.005			0.00026 (J)	
6/21/2018							<0.005		
6/26/2018									<0.005
1/17/2019	<0.005	<0.005				<0.005			
1/18/2019				<0.005	<0.005				
1/21/2019			<0.005						
1/24/2019								<0.005	
1/25/2019									<0.005
1/31/2019							<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				<0.005	<0.005	<0.005	<0.005		
8/31/2011								<0.005	<0.005
9/13/2011	<0.005	<0.005							
9/16/2011			<0.005						
10/26/2011				<0.005	<0.005	<0.005	<0.005		
10/27/2011		<0.005	<0.005					<0.005	<0.005
10/28/2011	<0.005								
12/3/2011		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
12/4/2011	<0.005							<0.005	<0.005
1/24/2012	<0.005	<0.005							
1/25/2012				<0.005	<0.005				
2/8/2012							<0.005	<0.005	<0.005
2/9/2012			<0.005			<0.005			
7/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
7/17/2012									<0.005
1/8/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1/9/2013									<0.005
7/2/2013			<0.005	<0.005					
7/10/2013	<0.005	<0.005							
7/16/2013					<0.005	<0.005	<0.005	<0.005	<0.005
1/14/2014				<0.005	<0.005	<0.005			
1/21/2014	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005
6/24/2014			<0.005			<0.005	<0.005	<0.005	<0.005
6/25/2014				<0.005	<0.005				
7/1/2014	<0.005	<0.005							
1/13/2015				<0.005		<0.005	<0.005	<0.005	<0.005
1/14/2015		<0.005	<0.005		<0.005				
1/21/2015	<0.005								
7/22/2015		<0.005	<0.005	<0.005					
7/23/2015						<0.005	<0.005	<0.005	<0.005
7/28/2015	<0.005				<0.005				
1/26/2016									<0.005
1/27/2016	<0.005	0.0071	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
3/29/2016	<0.005								
3/30/2016		0.00273 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/20/2016		<0.005							
5/25/2016	<0.005	<0.005	<0.005	<0.005	<0.005				
5/26/2016						<0.005	<0.005	<0.005	<0.005
7/25/2016						0.00073 (J)	<0.005	<0.005	
7/26/2016	<0.005	<0.005	<0.005						<0.005
7/27/2016				0.00029 (J)	<0.005				
9/15/2016	<0.005	<0.005							
9/16/2016				<0.005					
9/19/2016					<0.005	<0.005	<0.005		
9/20/2016			<0.005					<0.005	<0.005
11/17/2016	<0.005	0.00047 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/31/2017	<0.005								
2/1/2017		<0.005	<0.005	<0.005	<0.005	<0.005			
2/2/2017							<0.005	<0.005	<0.005
3/23/2017	0.0021	<0.005	<0.005						
3/24/2017				<0.005	<0.005	<0.005	<0.005		
3/28/2017								<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
5/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
5/4/2017								<0.005	<0.005
8/4/2017	<0.005		<0.005						
8/7/2017		0.00088 (J)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/25/2018	<0.005	0.00025 (J)	<0.005	<0.005	<0.005	<0.005	<0.005		
1/26/2018								<0.005	<0.005
6/20/2018	<0.005	0.0017	0.00027 (J)	<0.005					0.00046 (J)
6/21/2018						<0.005	<0.005	<0.005	
6/26/2018					<0.005				
1/22/2019	<0.005	<0.005	<0.005						
1/24/2019					<0.005				<0.005
1/25/2019				<0.005					
1/28/2019						<0.005	<0.005	<0.005	
6/25/2019	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
6/26/2019							<0.005		
6/27/2019						<0.005			
9/11/2019				<0.005	<0.005	<0.005		<0.005	<0.005
9/12/2019	<0.005	0.0032 (J)					<0.005		
9/17/2019			<0.005						
3/12/2020	<0.005								
3/16/2020			<0.005						
3/17/2020		0.0023 (J)		<0.005	<0.005	<0.005			
3/18/2020							<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.005						<0.005		<0.005
9/16/2011		<0.005							
9/17/2011				<0.005	<0.005	<0.005		<0.005	
10/28/2011							<0.005		
10/29/2011	<0.005	<0.005			<0.005	<0.005			
10/31/2011				<0.005				<0.005	<0.005
12/13/2011	<0.005	<0.005					<0.005		<0.005
12/14/2011				<0.005	<0.005	<0.005			
1/25/2012	<0.005					<0.005			
1/31/2012		<0.005							
2/1/2012									<0.005
2/7/2012				<0.005	<0.005			<0.005	
2/8/2012							<0.005		
7/17/2012				<0.005	<0.005	<0.005			<0.005
7/18/2012	<0.005	<0.005					<0.005		
1/22/2013	<0.005	<0.005							
1/23/2013								<0.005	<0.005
1/24/2013					<0.005	<0.005	<0.005		
7/16/2013	<0.005								
7/23/2013		<0.005							
7/24/2013				<0.005	<0.005	<0.005	<0.005		<0.005
1/21/2014	<0.005								
1/22/2014		<0.005							
1/23/2014				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/25/2014	<0.005								
7/1/2014		<0.005					<0.005	<0.005	<0.005
7/8/2014			<0.005	<0.005	<0.005	<0.005			
1/14/2015	<0.005								
1/20/2015							<0.005		<0.005
1/21/2015				<0.005	<0.005	<0.005		<0.005	
1/22/2015		<0.005							
7/23/2015	<0.005								
7/29/2015		<0.005							
7/30/2015				<0.005		<0.005	<0.005		<0.005
7/31/2015			<0.005		<0.005				
1/19/2016							<0.005		
1/20/2016			<0.005						
1/21/2016		<0.005		<0.005					
1/22/2016						<0.005			
1/25/2016					<0.005			<0.005	<0.005
1/26/2016	<0.005								
3/23/2016						<0.005	<0.005		<0.005
3/24/2016					<0.005				
3/28/2016				<0.005					
3/29/2016		<0.005							
3/30/2016			<0.005					<0.005	
3/31/2016	<0.005								
5/20/2016							<0.005		
5/24/2016						<0.005			<0.005
5/25/2016		<0.005	<0.005	<0.005	<0.005			<0.005	
5/26/2016	<0.005								
7/21/2016							0.0003 (J)		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
7/22/2016									0.00025 (J)
7/26/2016	<0.005				<0.005	<0.005			
7/27/2016		<0.005	<0.005	0.00033 (J)				0.00095 (J)	
9/16/2016			<0.005						<0.005
9/19/2016				<0.005	<0.005	<0.005			
9/20/2016	<0.005	<0.005					<0.005		
11/11/2016						<0.005			
11/14/2016					<0.005		<0.005		
11/15/2016				<0.005					<0.005
11/17/2016	<0.005								
11/18/2016		<0.005	<0.005						
1/19/2017					<0.005				
1/20/2017						0.00045 (J)			
1/24/2017				<0.005			<0.005		
1/25/2017								0.00035 (J)	
1/26/2017									<0.005
2/3/2017	<0.005	<0.005	<0.005						
3/16/2017					<0.005	<0.005			
3/17/2017							<0.005		
3/23/2017				<0.005				<0.005	
3/24/2017									<0.005
3/28/2017	<0.005	<0.005							
3/29/2017			<0.005						
4/28/2017						<0.005			
5/1/2017					0.0018		<0.005		
5/2/2017				<0.005				<0.005	<0.005
5/3/2017	<0.005								
5/4/2017		<0.005	<0.005						
7/19/2017								0.00068 (J)	
8/3/2017				<0.005	<0.005	<0.005			<0.005
8/4/2017							<0.005 (*)	<0.005 (*)	
8/8/2017	<0.005	<0.005	<0.005						
1/19/2018						<0.005			
1/22/2018					0.0003 (J)				
1/23/2018								0.001 (J)	<0.005
1/24/2018							0.00067 (J)		
1/25/2018	<0.005	<0.005	<0.005	<0.005					
6/20/2018	0.0003 (J)	<0.005							
6/21/2018							<0.005		
6/26/2018									<0.005
6/27/2018			<0.005	<0.005	<0.005	<0.005		0.00044 (J)	
1/24/2019	<0.005			<0.005	<0.005	<0.005			
1/25/2019		<0.005							
1/30/2019							<0.005		<0.005
1/31/2019			<0.005					<0.005	
6/25/2019	<0.005			<0.005	<0.005				
6/26/2019		<0.005	<0.005			<0.005		<0.005	
6/27/2019							<0.005		<0.005
9/10/2019	<0.005						<0.005		
9/11/2019			<0.005	<0.005				<0.005	
9/12/2019		<0.005			<0.005	<0.005			<0.005
3/11/2020							<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

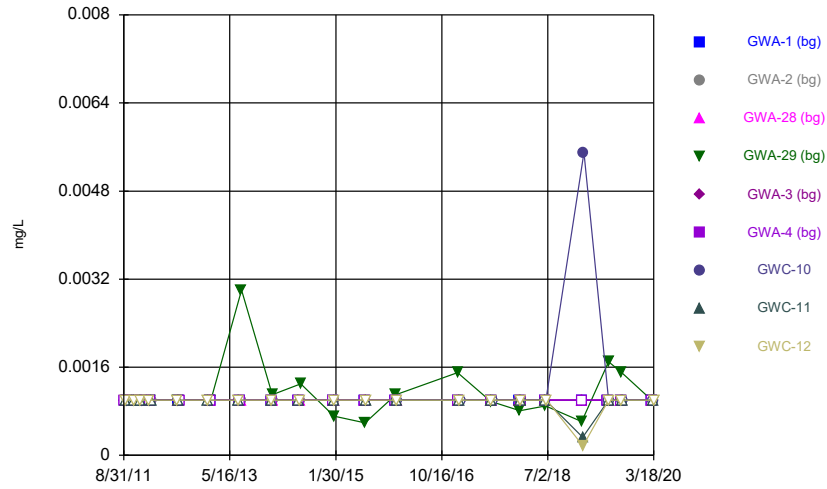
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.005	<0.005			
9/7/2011						<0.005	<0.005	0.015 (O)
9/16/2011	<0.005	<0.005	<0.005					
10/27/2011				<0.005				
10/30/2011	<0.005				<0.005	<0.005	<0.005	<0.005
10/31/2011		<0.005	<0.005					
12/4/2011								<0.005
12/5/2011				<0.005	<0.005	<0.005	<0.005	
12/12/2011		<0.005	<0.005					
12/13/2011	<0.005							
1/19/2012							<0.005	<0.005
1/25/2012				<0.005	<0.005	<0.005		
2/1/2012	<0.005	<0.005	<0.005					
7/16/2012		<0.005	<0.005					
7/17/2012	<0.005							
7/18/2012				<0.005		<0.005	<0.005	<0.005
7/24/2012					<0.005			
1/7/2013						<0.005	<0.005	
1/8/2013					<0.005			<0.005
1/9/2013				<0.005				
1/22/2013		<0.005	<0.005					
1/23/2013	<0.005							
7/2/2013			<0.005					
7/9/2013					<0.005	<0.005	<0.005	<0.005
7/17/2013	<0.005	<0.005		<0.005				
1/14/2014						<0.005	<0.005	<0.005
1/15/2014				<0.005	<0.005			
1/21/2014			<0.005					
1/23/2014	<0.005	<0.005						
6/24/2014						<0.005	<0.005	<0.005
6/25/2014		<0.005	<0.005	<0.005	<0.005			
1/13/2015				<0.005				
1/14/2015		<0.005	<0.005					
1/20/2015	<0.005				<0.005	<0.005	<0.005	<0.005
7/24/2015				<0.005	<0.005			
7/27/2015						<0.005	<0.005	<0.005
7/28/2015			<0.005					
7/29/2015	<0.005	<0.005						
1/20/2016				<0.005	<0.005			
1/21/2016		<0.005	<0.005					
1/25/2016	<0.005							
1/26/2016						<0.005	<0.005	<0.005
3/23/2016	<0.005							
3/24/2016		<0.005	<0.005					
3/28/2016				<0.005	<0.005			
3/29/2016						<0.005	<0.005	<0.005
5/23/2016		<0.005	<0.005	<0.005				
5/24/2016	<0.005				<0.005	<0.005	<0.005	<0.005
7/21/2016		<0.005	<0.005	0.00025 (J)	<0.005			
7/22/2016	0.00074 (J)					<0.005		
7/25/2016								<0.005
7/26/2016							<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

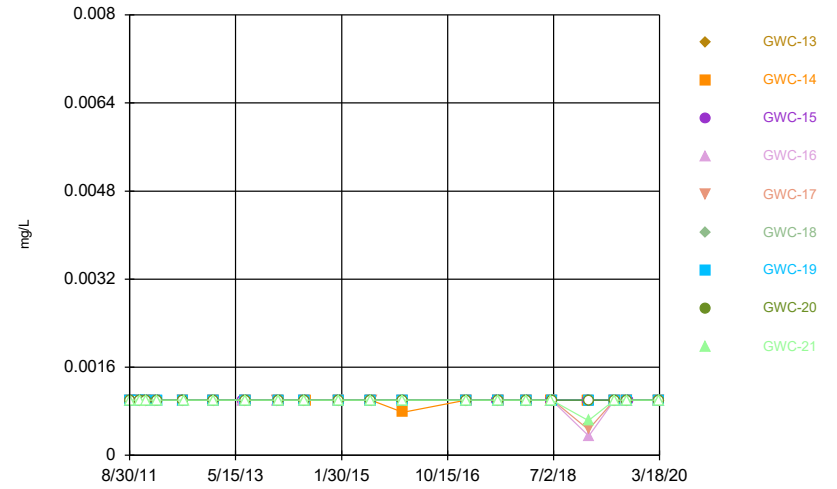
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
9/15/2016		<0.005	<0.005	<0.005	<0.005	<0.005		
9/16/2016	<0.005							
9/19/2016							<0.005	<0.005
11/15/2016		<0.005	<0.005	<0.005				
11/16/2016					0.00031 (J)	<0.005	<0.005	<0.005
11/17/2016	<0.005							
1/25/2017	<0.005	<0.005						
1/26/2017			<0.005	<0.005	<0.005	<0.005	<0.005	
1/31/2017								0.00053 (J)
3/22/2017		<0.005	<0.005	<0.005	<0.005	<0.005		
3/23/2017	<0.005						<0.005	<0.005
5/1/2017	0.00084 (J)	<0.005						
5/2/2017			<0.005	<0.005	<0.005	<0.005		<0.005
5/3/2017							0.0018	
8/3/2017		<0.005	<0.005	<0.005	<0.005			
8/4/2017	<0.005 (*)					<0.005 (*)		
8/7/2017							0.00068 (J)	0.0009 (J)
1/23/2018	0.001 (J)	<0.005	<0.005	<0.005	<0.005	<0.005		
1/24/2018							0.00025 (J)	0.00052 (J)
6/19/2018			0.00025 (J)					
6/20/2018		<0.005						
6/21/2018							0.00029 (J)	0.00063 (J)
6/25/2018				0.0008 (J)	0.0008 (J)	<0.005		
6/26/2018	0.00085 (J)							
1/21/2019			<0.005			<0.005		
1/22/2019							<0.005	<0.005
1/28/2019		<0.005						
1/30/2019	<0.005			<0.005	<0.005			
6/25/2019						<0.005	<0.005	<0.005
6/26/2019	<0.005	<0.005	<0.005	<0.005	<0.005			
9/10/2019						<0.005	<0.005	
9/11/2019		<0.005						
9/12/2019	<0.005		<0.005	<0.005	<0.005			
9/16/2019								<0.005
3/11/2020		<0.005	<0.005					
3/12/2020	<0.005					<0.005	<0.005	
3/16/2020				<0.005	<0.005			<0.005

Time Series



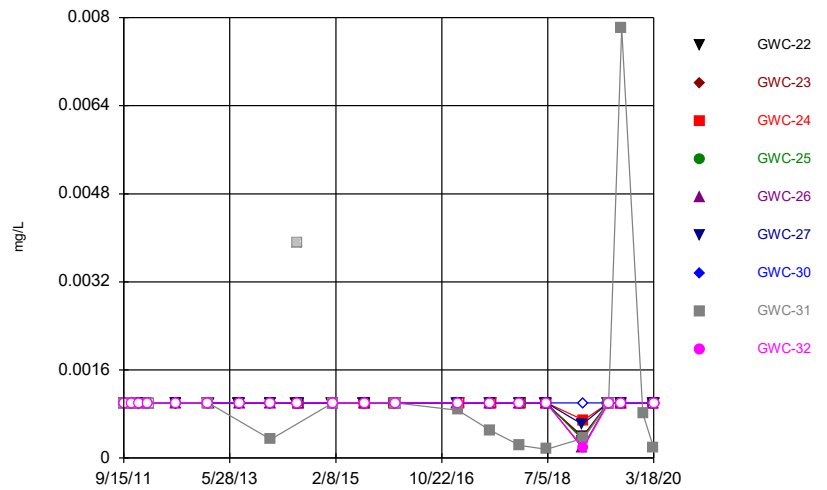
Constituent: Silver Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



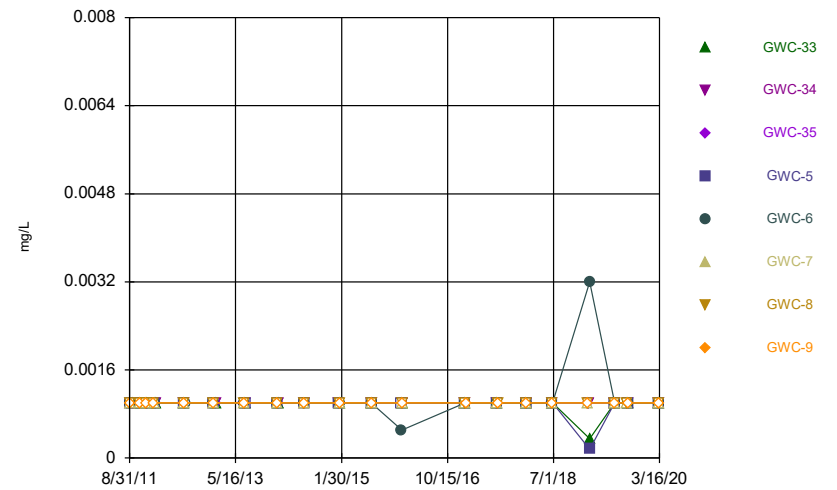
Constituent: Silver Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Silver Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Silver Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								<0.001	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		<0.001					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	<0.001				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			<0.001					
2/1/2012						<0.001			
2/7/2012		<0.001							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							<0.001	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	<0.001					
7/9/2013								<0.001	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		0.003					
1/15/2014						<0.001		<0.001	
1/21/2014	<0.001								<0.001
1/22/2014		<0.001	<0.001	0.0011 (J)					
6/25/2014	<0.001				<0.001	<0.001		<0.001	
7/1/2014		<0.001	<0.001						<0.001
7/8/2014				0.0013 (JD)					
1/14/2015	<0.001					<0.001			
1/21/2015			<0.001	0.00071 (J)				<0.001	<0.001
1/22/2015		<0.001							
7/21/2015	<0.001		<0.001		<0.001	<0.001			
7/22/2015		<0.001		0.00059 (J)					
7/28/2015								<0.001	<0.001
1/19/2016				0.0011 (JD)					
1/20/2016		<0.001				<0.001			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							<0.001		
1/26/2016								<0.001	<0.001
1/17/2017			<0.001	0.0015		<0.001			
1/19/2017	<0.001	<0.001							
1/31/2017								<0.001	<0.001
2/1/2017							<0.001		
8/1/2017			<0.001	0.00098 (J)	<0.001				

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				<0.001	<0.001	<0.001	<0.001		
8/31/2011								<0.001	<0.001
9/13/2011	<0.001	<0.001							
9/16/2011			<0.001						
10/26/2011				<0.001		<0.001	<0.001		
10/27/2011		<0.001	<0.001		<0.001			<0.001	<0.001
10/28/2011	<0.001								
12/3/2011		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
12/4/2011	<0.001							<0.001	<0.001
1/24/2012	<0.001	<0.001							
1/25/2012				<0.001	<0.001				
2/8/2012			<0.001			<0.001	<0.001	<0.001	<0.001
7/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
7/17/2012									<0.001
1/8/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/9/2013									<0.001
7/2/2013			<0.001	<0.001					
7/10/2013	<0.001	<0.001							
7/16/2013					<0.001	<0.001	<0.001	<0.001	<0.001
1/14/2014				<0.001	<0.001	<0.001			
1/21/2014	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
6/24/2014			<0.001			<0.001	<0.001	<0.001	<0.001
6/25/2014				<0.001	<0.001				
7/1/2014	<0.001	<0.001							
1/13/2015				<0.001		<0.001	<0.001	<0.001	<0.001
1/14/2015		<0.001	<0.001		<0.001				
1/21/2015	<0.001								
7/22/2015		<0.001	<0.001	<0.001					
7/23/2015						<0.001	<0.001	<0.001	<0.001
7/28/2015	<0.001				<0.001				
1/26/2016									<0.001
1/27/2016	<0.001	0.00078 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/31/2017	<0.001								
2/1/2017		<0.001	<0.001	<0.001	<0.001	<0.001			
2/2/2017							<0.001	<0.001	<0.001
8/4/2017	<0.001		<0.001						
8/7/2017		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/25/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1/26/2018								<0.001	<0.001
6/20/2018	<0.001	<0.001	<0.001	<0.001					<0.001
6/21/2018						<0.001	<0.001	<0.001	
6/26/2018					<0.001				
1/22/2019	<0.001	<0.001	<0.001						
1/24/2019					0.00047 (J)				0.00063 (J)
1/25/2019				0.00035 (J)					
1/28/2019						<0.001	<0.001	<0.001	
6/25/2019	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
6/26/2019							<0.001		
6/27/2019						<0.001			
9/11/2019				<0.001	<0.001	<0.001		<0.001	<0.001
9/12/2019	<0.001	<0.001					<0.001		
9/17/2019			<0.001						

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/12/2020	<0.001								
3/16/2020			<0.001						
3/17/2020		<0.001		<0.001	<0.001	<0.001			
3/18/2020							<0.001	<0.001	<0.001

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.001						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				<0.001	<0.001			<0.001	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				<0.001	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			<0.001	
2/8/2012							<0.001		
7/17/2012				<0.001	<0.001	<0.001			<0.001
7/18/2012	<0.001	<0.001					<0.001		
1/22/2013	<0.001	<0.001							
1/23/2013								<0.001	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	<0.001								
7/23/2013		<0.001							
7/24/2013				<0.001	<0.001	<0.001	<0.001		<0.001
1/21/2014	<0.001								
1/22/2014		<0.001							
1/23/2014				<0.001	<0.001	<0.001	<0.001	0.00034 (J)	<0.001
6/25/2014	<0.001								
7/1/2014		<0.001					<0.001	0.0039 (O)	<0.001
7/8/2014			<0.001	<0.001	<0.001	<0.001			
1/14/2015	<0.001								
1/20/2015							<0.001		<0.001
1/21/2015				<0.001	<0.001	<0.001		<0.001	
1/22/2015		<0.001							
7/23/2015	<0.001								
7/29/2015		<0.001							
7/30/2015				<0.001		<0.001	<0.001		<0.001
7/31/2015			<0.001		<0.001				
1/19/2016							<0.001		
1/20/2016			<0.001						
1/21/2016		<0.001		<0.001					
1/22/2016						<0.001			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	<0.001								
1/19/2017					<0.001				
1/20/2017						<0.001			
1/24/2017				<0.001			<0.001		
1/25/2017								0.00087	
1/26/2017									<0.001
2/3/2017	<0.001	<0.001	<0.001						
8/3/2017				<0.001	<0.001	<0.001			<0.001
8/4/2017							<0.001	0.0005 (J)	
8/8/2017	<0.001	<0.001	<0.001						
1/19/2018						<0.001			
1/22/2018					<0.001				

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

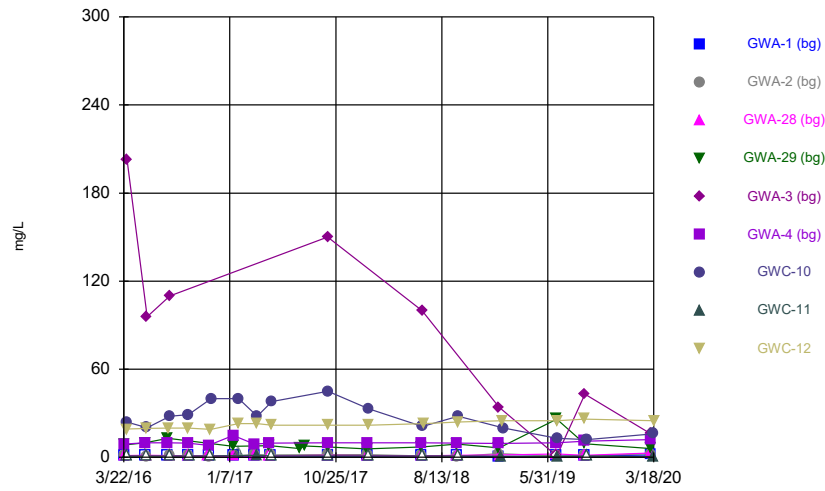
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	<0.001			
9/7/2011						<0.001	<0.001	<0.001
9/16/2011	<0.001	<0.001	<0.001					
10/27/2011				<0.001				
10/30/2011	<0.001				<0.001	<0.001	<0.001	<0.001
10/31/2011		<0.001	<0.001					
12/4/2011								<0.001
12/5/2011				<0.001	<0.001	<0.001	<0.001	
12/12/2011	<0.001	<0.001	<0.001					
1/19/2012							<0.001	<0.001
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	<0.001					
7/16/2012		<0.001	<0.001					
7/17/2012	<0.001							
7/18/2012				<0.001		<0.001	<0.001	<0.001
7/24/2012					<0.001			
1/7/2013						<0.001	<0.001	
1/8/2013					<0.001			<0.001
1/9/2013				<0.001				
1/22/2013		<0.001	<0.001					
1/23/2013	<0.001							
7/2/2013			<0.001					
7/9/2013					<0.001	<0.001	<0.001	<0.001
7/17/2013	<0.001	<0.001		<0.001				
1/14/2014						<0.001	<0.001	<0.001
1/15/2014				<0.001	<0.001			
1/21/2014			<0.001					
1/23/2014	<0.001	<0.001						
6/24/2014						<0.001	<0.001	<0.001
6/25/2014		<0.001	<0.001	<0.001	<0.001			
1/13/2015				<0.001				
1/14/2015		<0.001	<0.001					
1/20/2015	<0.001				<0.001	<0.001	<0.001	<0.001
7/24/2015				<0.001	<0.001			
7/27/2015						<0.001	<0.001	<0.001
7/28/2015			<0.001					
7/29/2015	<0.001	<0.001						
1/20/2016				<0.001	0.00051 (J)			
1/21/2016		<0.001	<0.001					
1/25/2016	<0.001							
1/26/2016						<0.001	<0.001	<0.001
1/25/2017	<0.001	<0.001						
1/26/2017			<0.001	<0.001	<0.001	<0.001	<0.001	
1/31/2017								<0.001
8/3/2017		<0.001	<0.001	<0.001	<0.001			
8/4/2017	<0.001					<0.001		
8/7/2017							<0.001	<0.001
1/23/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
1/24/2018							<0.001	<0.001
6/19/2018			<0.001					
6/20/2018		<0.001						
6/21/2018							<0.001	<0.001

Time Series

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

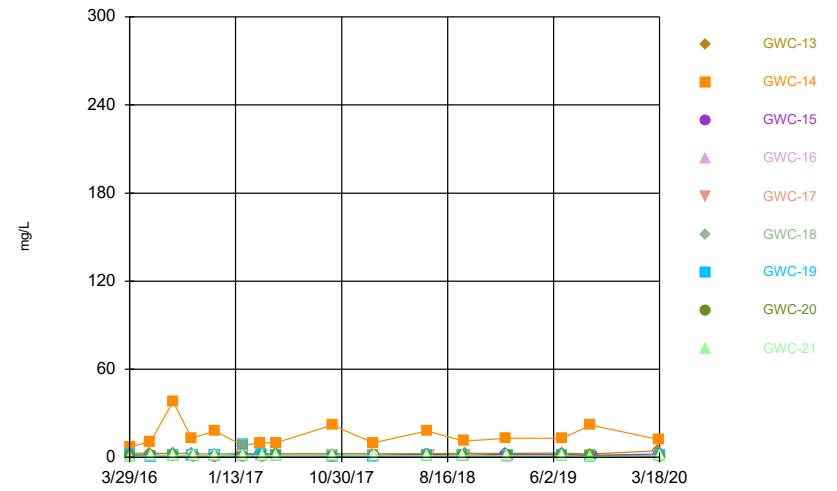
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
6/25/2018				<0.001	<0.001	<0.001		
6/26/2018	<0.001							
1/21/2019			<0.001			<0.001		
1/22/2019							<0.001	<0.001
1/28/2019		<0.001						
1/30/2019	0.00035 (J)			0.00016 (J)	0.0032			
6/25/2019						<0.001	<0.001	<0.001
6/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
9/10/2019						<0.001	<0.001	
9/11/2019		<0.001						
9/12/2019	<0.001		<0.001	<0.001	<0.001			
9/16/2019								<0.001
3/11/2020		<0.001	<0.001					
3/12/2020	<0.001					<0.001	<0.001	
3/16/2020				<0.001	<0.001			<0.001

Time Series



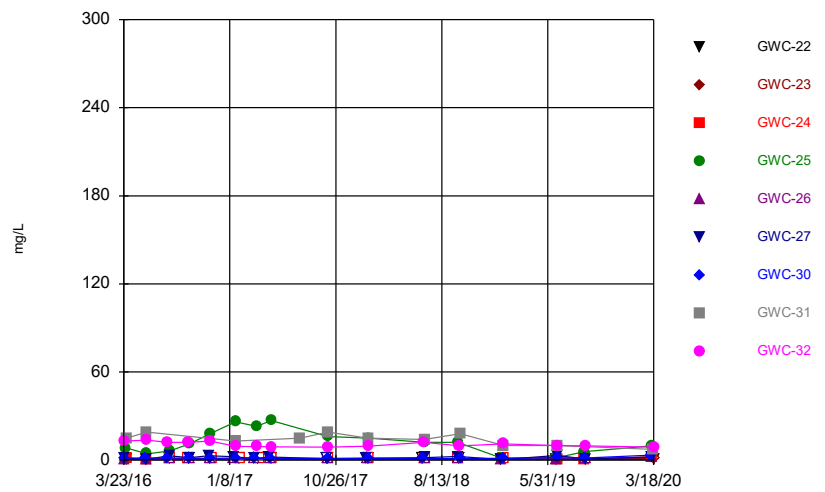
Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



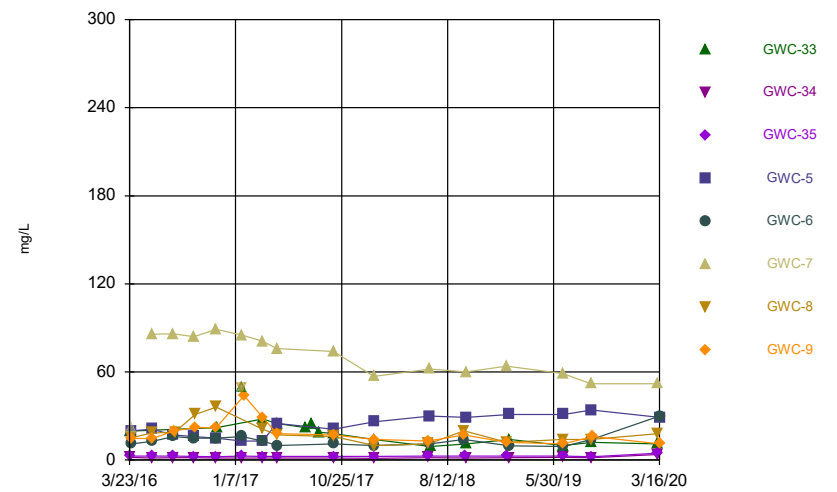
Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			1.1423	8.4662					
3/23/2016	<1	1.001				9.0208			
3/29/2016								<1	19.1889
3/30/2016							24.0688		
3/31/2016					202.982				
5/19/2016				10		10			
5/20/2016	<1								
5/23/2016			1.44						
5/24/2016		0.576 (J)							
5/25/2016					95.7		20.1	<1	19.8
7/21/2016	<1			13		10			
7/22/2016									20
7/25/2016			1.1					<1	
7/26/2016		0.91 (J)							
7/27/2016					110		28		
9/14/2016						9.7			
9/15/2016	<1		0.99 (J)						20
9/16/2016		0.87 (J)					29		
9/19/2016								<1	
11/9/2016			1.1						
11/10/2016		0.79 (J)				8.1			
11/11/2016	<1								
11/16/2016								<1	19
11/17/2016							40		
1/17/2017			0.85 (J)	7.6		15			
1/19/2017	<1	0.87 (J)							
1/31/2017								3.7 (o)	23
2/1/2017							40		
3/16/2017	<1		1.2			9.1			
3/17/2017		1.8							
3/23/2017								1.5	23
3/24/2017							28		
4/27/2017			<1	8		9.6			
4/28/2017	<1	1.7							
5/2/2017								<1	
5/3/2017							38		22
7/18/2017				6					
8/1/2017				7.7					
10/3/2017		1.9	1.4	7	150	9.8			
10/4/2017	<1						45	<1	22
1/19/2018	<1	1.8	1.1	5.7					
1/22/2018						10			
1/24/2018								<1	22
1/25/2018							33		
6/19/2018	<1	1	0.94 (J)	7		10			
6/20/2018					100			<1	
6/21/2018							21		
6/26/2018									23
9/25/2018	<1	0.78 (J)	1.3	9.1		9.7			
9/27/2018							28	<1	
9/28/2018									24
1/17/2019	0.5 (J)	2.5				9.4			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	2.8316								
3/30/2016		7.2023	1.7296	0.5433 (J)	0.8313 (J)	0.6239 (J)	2.3237	1.0356	0.3269 (J)
5/25/2016	2.62	10.5	1.52	0.4393 (J)	0.195 (J)				
5/26/2016						0.598 (J)	0.574 (J)	0.979 (J)	<1
7/25/2016						<1	<1	0.94 (J)	
7/26/2016	2.7	38	1.2						<1
7/27/2016				<1	0.7 (J)				
9/15/2016	2.6	13							
9/16/2016				<1					
9/19/2016					<1	<1	<1		
9/20/2016			0.85 (J)					0.83 (J)	<1
11/17/2016	2.2	18	0.83 (J)	<1	0.75 (J)	<1	<1	0.71 (J)	<1
1/31/2017	2.6								
2/1/2017		8.2	1.9	<1	<1	<1			
2/2/2017							8.6 (o)	0.82 (J)	<1
3/23/2017	2.6	10	1.6						
3/24/2017				<1	<1	<1	2.5		
3/28/2017								0.75 (J)	<1
5/3/2017	2.6	10	1.3	<1	<1	<1	0.88 (J)		
5/4/2017								1.1	<1
10/4/2017		22	1.4		<1				
10/5/2017	2.5			<1		<1	0.81 (J)		
10/6/2017								0.79 (J)	<1
1/25/2018	2.5	9.9	1.4	<1	<1	<1	0.77 (J)		
1/26/2018								<1	<1
6/20/2018	2.5	18	2.1	<1					<1
6/21/2018						<1	<1	1.3	
6/26/2018					<1				
9/27/2018							<1	1.2	<1
9/28/2018						<1			
10/1/2018		11	1.4	<1					
10/2/2018	2.7				<1				
1/22/2019	2.8	13	2						
1/24/2019					0.88 (J)				<1
1/25/2019				0.66 (J)					
1/28/2019						0.69 (J)	1.2	0.9 (J)	
6/25/2019	3	13	2	0.84 (J)	1.1			0.99 (J)	<1
6/26/2019							0.88 (J)		
6/27/2019						0.85 (J)			
9/11/2019				0.6 (J)	0.99 (J)	0.7 (J)		1.1	0.42 (J)
9/12/2019	2.2	22					0.39 (J)		
9/17/2019			1.4						
3/12/2020	4.5								
3/16/2020			2.3						
3/17/2020		12		0.84 (J)	1.2	1			
3/18/2020							1.1	0.72 (J)	<1

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
6/27/2018			<1	12	<1	1.7		14	
9/26/2018				12					
9/27/2018					<1	2.5			
9/28/2018			<1						
10/1/2018	<1	<1							
10/2/2018									9.7
10/3/2018							1.2	18	
1/24/2019	0.81 (J)			1.4	0.57 (J)	0.39 (J)			
1/25/2019		0.38 (J)							
1/30/2019							1.2		11
1/31/2019			<1					10	
6/25/2019	0.76 (J)			1.6	0.78 (J)				
6/26/2019		0.64 (J)	0.71 (J)			3.2		9.9	
6/27/2019							1.7		9.9
9/10/2019	<1						1.3		
9/11/2019			0.59 (J)	5.7					
9/12/2019		0.54 (J)			<1	0.82 (J)			9.7
3/11/2020							3.3		
3/12/2020			2.3	9.7		2			
3/13/2020					1.8				
3/17/2020								7.3	
3/18/2020	0.65 (J)	<1							8.8

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

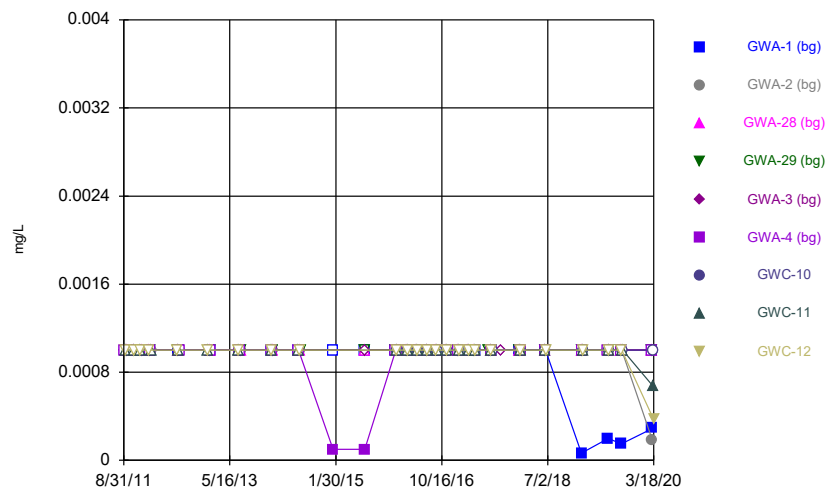
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	19.6956							
3/24/2016		1.8782	2.7482					
3/28/2016				19.9405	11.0351			
3/29/2016						22.385 (JO)	15.2958	14.6203
5/23/2016		1.44	2.76	21				
5/24/2016					12.8	85.8	18.5	14.7
7/21/2016		1.6	2.8	17	16			
7/22/2016						86		
7/25/2016								20
7/26/2016							19	
9/15/2016		1.6	2.4	16	15	84		
9/19/2016							31	22
11/15/2016		1.3	2.3	15				
11/16/2016					15	89	36	22
11/17/2016	22							
1/25/2017	50 (o)	1.5						
1/26/2017			2.7	13	16	85	49 (o)	
1/31/2017								44
3/22/2017		1.5	2.4	13	13	81		
3/23/2017	28						21	29
5/1/2017	25	1.4						
5/2/2017			2.5	25	10	76		18
5/3/2017							17	
7/19/2017	22							
8/4/2017	25							
8/24/2017	19							
10/3/2017		1.4	2.5	21	11	74		17
10/5/2017	18						16	
1/23/2018	14	1.2	2.4	26	10	57		
1/24/2018							10	14
6/19/2018			2.7					
6/20/2018		1.7						
6/21/2018							11	13
6/25/2018				30	11	62		
6/26/2018	9.2							
9/25/2018					14			
9/26/2018							20	17
10/1/2018			2.8					
10/2/2018	11	1.4				60		
10/3/2018				29				
1/21/2019			2.7			64		
1/22/2019							12	12
1/28/2019		1.6						
1/30/2019	14			31	9.7			
6/25/2019						59	14	11
6/26/2019	10	1.9	2.8	31	9.3			
9/10/2019						52	14	
9/11/2019		1.6						
9/12/2019	12		2.3	34	14			
9/16/2019								16
3/11/2020		3.8	4.7					
3/12/2020	11					52	18	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

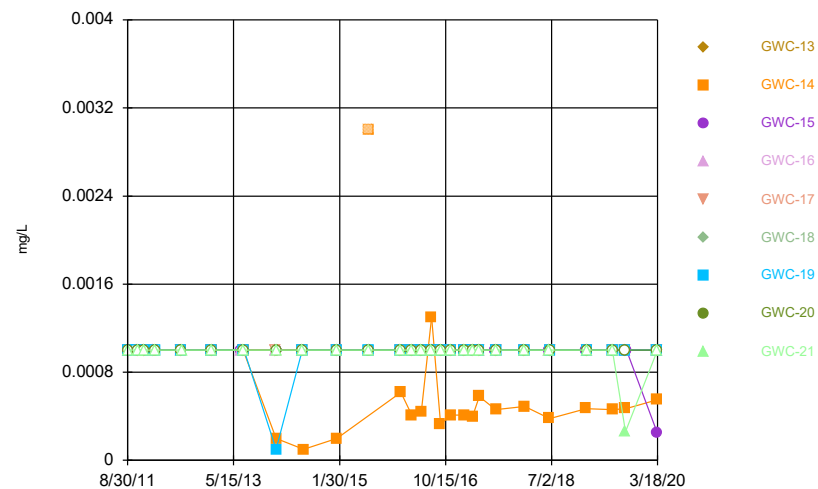
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/16/2020				29	30			11

Time Series



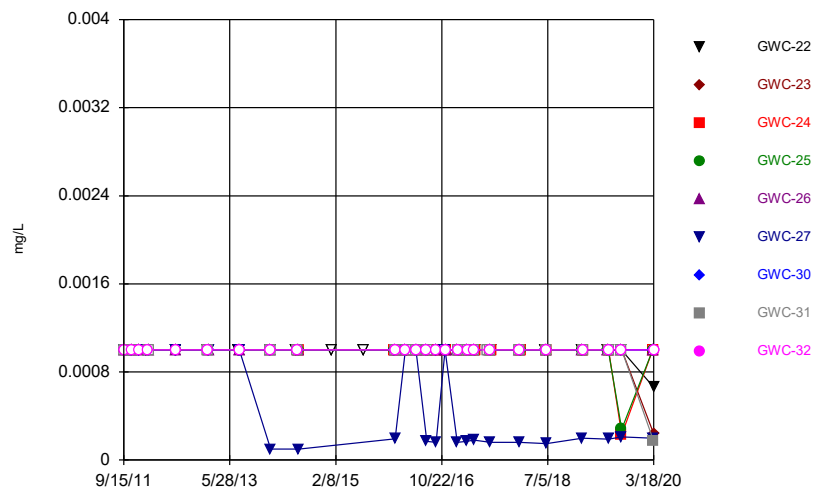
Constituent: Thallium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



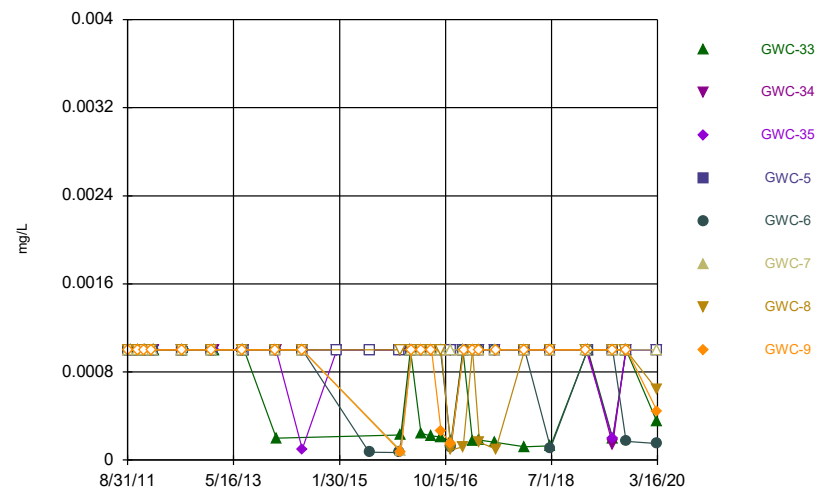
Constituent: Thallium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Thallium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Thallium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								<0.001	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		<0.001					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	<0.001				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			<0.001					
2/1/2012						<0.001			
2/7/2012		<0.001							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							<0.001	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	<0.001					
7/9/2013								<0.001	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		<0.001					
1/15/2014						<0.001		<0.001	
1/21/2014	<0.001								<0.001
1/22/2014		<0.001	<0.001	<0.001					
6/25/2014	<0.001				<0.001	<0.001		<0.001	
7/1/2014		<0.001	<0.001						<0.001
7/8/2014				<0.001					
1/14/2015	<0.001								
7/21/2015	<0.001		<0.001		<0.001	0.0001 (J)			
7/22/2015		<0.001		<0.001					
1/19/2016				<0.001 (D)					
1/20/2016		<0.001				<0.001			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							<0.001		
1/26/2016								<0.001	<0.001
3/22/2016			<0.001	<0.001					
3/23/2016	<0.001	<0.001				<0.001			
3/29/2016								<0.001	<0.001
3/30/2016							<0.001		
3/31/2016					<0.001				
5/19/2016				<0.001		<0.001			
5/20/2016	<0.001								
5/23/2016			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
5/24/2016		<0.001							
5/25/2016					<0.001		<0.001	<0.001	<0.001
7/21/2016	<0.001			<0.001		<0.001			
7/22/2016									<0.001
7/25/2016			<0.001					<0.001	
7/26/2016		<0.001							
7/27/2016					<0.001		<0.001		
9/14/2016						<0.001			
9/15/2016	<0.001		<0.001						<0.001
9/16/2016		<0.001					<0.001		
9/19/2016								<0.001	
11/9/2016			<0.001						
11/10/2016		<0.001				<0.001			
11/11/2016	<0.001								
11/16/2016								<0.001	<0.001
11/17/2016							<0.001		
1/17/2017			<0.001	<0.001		<0.001			
1/19/2017	<0.001	<0.001							
1/31/2017								<0.001	<0.001
2/1/2017							<0.001		
3/16/2017	<0.001		<0.001			<0.001			
3/17/2017		<0.001							
3/23/2017								<0.001	<0.001
3/24/2017							<0.001		
4/27/2017			<0.001	<0.001		<0.001			
4/28/2017	<0.001	<0.001							
5/2/2017								<0.001	
5/3/2017							<0.001		<0.001
7/18/2017				<0.001					
8/1/2017			<0.001	<0.001	<0.001				
8/2/2017		<0.001				<0.001			
8/3/2017	<0.001								
8/7/2017								<0.001	<0.001
8/8/2017							<0.001		
10/3/2017					<0.001				
1/19/2018	<0.001	<0.001	<0.001	<0.001					
1/22/2018						<0.001			
1/24/2018								<0.001	<0.001
1/25/2018							<0.001		
6/19/2018	<0.001	<0.001	<0.001	<0.001		<0.001			
6/20/2018					<0.001			<0.001	
6/21/2018							<0.001		
6/26/2018									<0.001
1/17/2019	6.6E-05 (J)	<0.001				<0.001			
1/18/2019				<0.001	<0.001				
1/21/2019			<0.001						
1/24/2019								<0.001	
1/25/2019									<0.001
1/31/2019							<0.001		
6/24/2019	0.0002 (J)	<0.001				<0.001			
6/25/2019			<0.001	<0.001	<0.001				
6/26/2019							<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
1/25/2018	<0.001	0.00049 (J)	<0.001	<0.001	<0.001	<0.001	<0.001		
1/26/2018								<0.001	<0.001
6/20/2018	<0.001	0.00038 (J)	<0.001	<0.001					<0.001
6/21/2018						<0.001	<0.001	<0.001	
6/26/2018					<0.001				
1/22/2019	<0.001	0.00047 (J)	<0.001						
1/24/2019					<0.001				<0.001
1/25/2019				<0.001					
1/28/2019						<0.001	<0.001	<0.001	
6/25/2019	<0.001	0.00046 (J)	<0.001	<0.001	<0.001			<0.001	<0.001
6/26/2019							<0.001		
6/27/2019						<0.001			
9/11/2019				<0.001	<0.001	<0.001		<0.001	0.00026 (J)
9/12/2019	<0.001	0.00047 (J)					<0.001		
9/17/2019			<0.001						
3/12/2020	<0.001								
3/16/2020			0.00025 (J)						
3/17/2020		0.00055 (J)		<0.001	<0.001	<0.001			
3/18/2020							<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	<0.001						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				<0.001	<0.001	<0.001		<0.001	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				<0.001	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			<0.001	
2/8/2012							<0.001		
7/17/2012				<0.001	<0.001	<0.001			<0.001
7/18/2012	<0.001	<0.001					<0.001		
1/22/2013	<0.001	<0.001							
1/23/2013								<0.001	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	<0.001								
7/23/2013		<0.001							
7/24/2013				<0.001	<0.001	<0.001	<0.001		<0.001
1/21/2014	<0.001								
1/22/2014		<0.001							
1/23/2014				<0.001	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
6/25/2014	<0.001								
7/1/2014		<0.001					<0.001	<0.001	<0.001
7/8/2014			<0.001	<0.001	<0.001	0.0001			
1/14/2015	<0.001								
7/23/2015	<0.001								
1/19/2016							<0.001		
1/20/2016			<0.001						
1/21/2016		<0.001		<0.001					
1/22/2016						0.000193 (J)			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	<0.001								
3/23/2016						<0.001	<0.001		<0.001
3/24/2016					<0.001				
3/28/2016				<0.001					
3/29/2016		<0.001							
3/30/2016			<0.001					<0.001	
3/31/2016	<0.001								
5/20/2016							<0.001		
5/24/2016						<0.001			<0.001
5/25/2016		<0.001	<0.001	<0.001	<0.001			<0.001	
5/26/2016	<0.001								
7/21/2016							<0.001		
7/22/2016									<0.001
7/26/2016	<0.001				<0.001	0.00017 (J)			
7/27/2016		<0.001	<0.001	<0.001				<0.001	
9/16/2016			<0.001						<0.001
9/19/2016				<0.001	<0.001	0.00016 (J)			
9/20/2016	<0.001	<0.001					<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

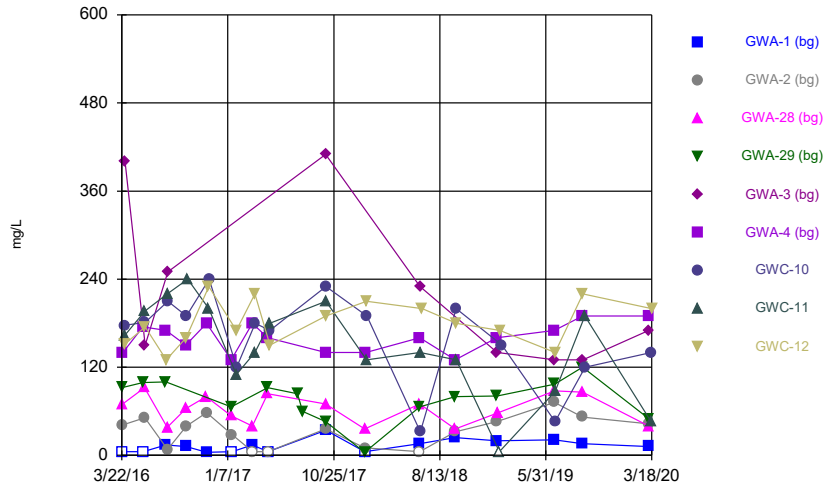
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	<0.001			
9/7/2011						<0.001	<0.001	<0.001
9/16/2011	<0.001	<0.001	<0.001					
10/27/2011				<0.001				
10/30/2011	<0.001				<0.001	<0.001	<0.001	<0.001
10/31/2011		<0.001	<0.001					
12/4/2011								<0.001
12/5/2011				<0.001	<0.001	<0.001	<0.001	
12/12/2011	<0.001	<0.001	<0.001					
1/19/2012							<0.001	<0.001
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	<0.001					
7/16/2012		<0.001	<0.001					
7/17/2012	<0.001							
7/18/2012				<0.001		<0.001	<0.001	<0.001
7/23/2012					<0.001			
7/24/2012					<0.001			
1/7/2013						<0.001	<0.001	
1/8/2013					<0.001			<0.001
1/9/2013				<0.001				
1/22/2013		<0.001	<0.001					
1/23/2013	<0.001							
7/2/2013			<0.001					
7/9/2013					<0.001	<0.001	<0.001	<0.001
7/17/2013	<0.001	<0.001		<0.001				
1/14/2014						<0.001	<0.001	<0.001
1/15/2014				<0.001	<0.001			
1/21/2014			<0.001					
1/23/2014	0.0002 (J)	<0.001						
6/24/2014						<0.001	<0.001	<0.001
6/25/2014		<0.001	0.0001	<0.001	<0.001			
1/13/2015				<0.001				
1/14/2015		<0.001	<0.001					
7/24/2015				<0.001	7E-05 (J)			
1/20/2016				<0.001	6.7E-05 (J)			
1/21/2016		<0.001	<0.001					
1/25/2016	0.000227 (J)							
1/26/2016						8.5E-05 (J)	<0.001	7.3E-05 (J)
3/23/2016	<0.001							
3/24/2016		<0.001	<0.001					
3/28/2016				<0.001	<0.001			
3/29/2016						<0.001	<0.001	<0.001
5/23/2016		<0.001	<0.001	<0.001				
5/24/2016	0.000242 (J)				<0.001	<0.001	<0.001	<0.001
7/21/2016		<0.001	<0.001	<0.001	<0.001			
7/22/2016	0.00022 (J)					<0.001		
7/25/2016								<0.001
7/26/2016							<0.001	
9/15/2016		<0.001	<0.001	<0.001	<0.001	<0.001		
9/16/2016	0.00021 (J)							
9/19/2016							<0.001	0.00026 (J)
11/15/2016		<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

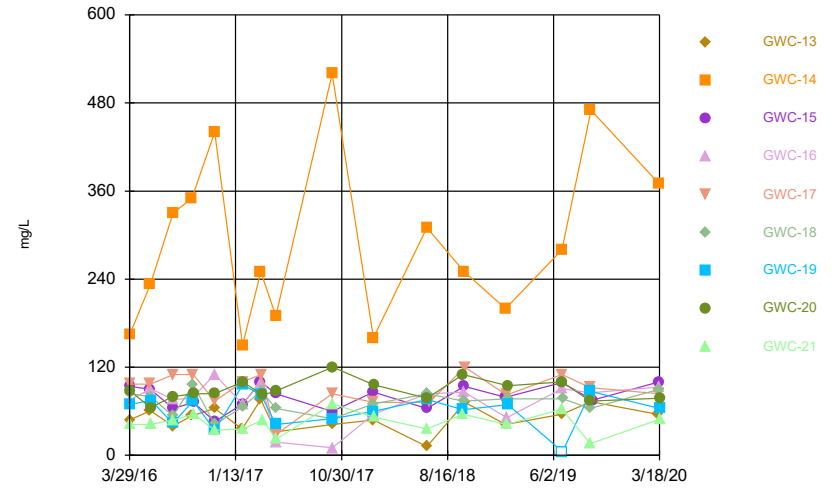
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
11/16/2016					0.00012 (J)	<0.001	9E-05 (J)	0.00015 (J)
11/17/2016	0.00017 (J)							
1/25/2017	<0.001	<0.001						
1/26/2017			<0.001	<0.001	<0.001	<0.001	0.00012 (J)	
1/31/2017								<0.001
3/22/2017		<0.001	<0.001	<0.001	<0.001	<0.001		
3/23/2017	0.00017 (J)						<0.001	<0.001
5/1/2017	0.00018 (J)	<0.001						
5/2/2017			<0.001	<0.001	<0.001	<0.001		<0.001
5/3/2017							0.00016 (J)	
8/3/2017		<0.001	<0.001	<0.001	<0.001			
8/4/2017	0.00016 (J)					<0.001		
8/7/2017							0.0001 (J)	<0.001
1/23/2018	0.00012 (J)	<0.001	<0.001	<0.001	<0.001	<0.001		
1/24/2018							<0.001	<0.001
6/19/2018			<0.001					
6/20/2018		<0.001						
6/21/2018							<0.001	<0.001
6/25/2018				<0.001	0.00011 (J)	<0.001		
6/26/2018	0.00013 (J)							
1/21/2019			<0.001			<0.001		
1/22/2019							<0.001	<0.001
1/28/2019		<0.001						
1/30/2019	<0.001			<0.001	<0.001			
6/25/2019						<0.001	<0.001	<0.001
6/26/2019	0.0002 (J)	0.00014 (J)	0.00019 (J)	<0.001	<0.001			
9/10/2019						<0.001	<0.001	
9/11/2019		<0.001						
9/12/2019	<0.001		<0.001	<0.001	0.00017 (J)			
9/16/2019								<0.001
3/11/2020		<0.001	<0.001					
3/12/2020	0.00035 (J)					<0.001	0.00064 (J)	
3/16/2020				<0.001	0.00015 (J)			0.00044 (J)

Time Series



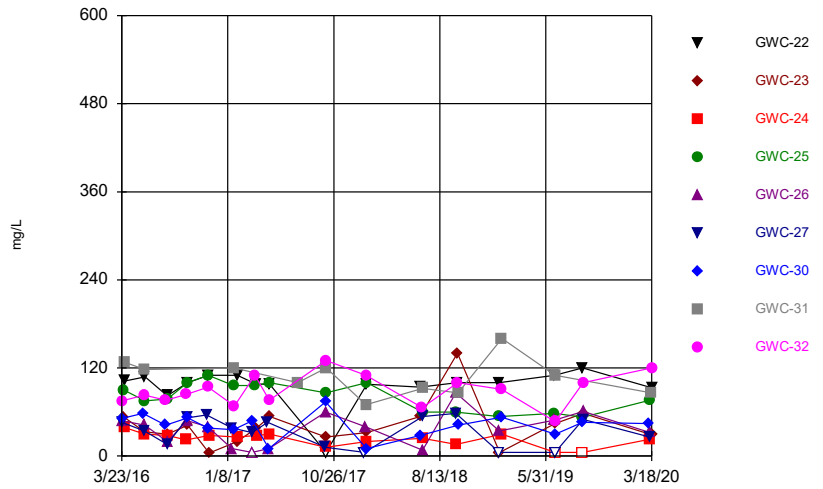
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



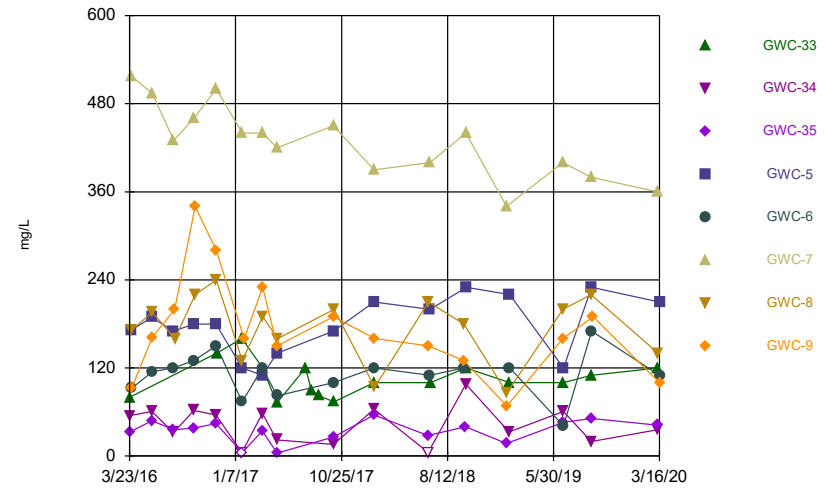
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
3/22/2016			69	92					
3/23/2016	<10	41				139			
3/29/2016								163	151
3/30/2016							177		
3/31/2016					401				
5/19/2016				99		175			
5/20/2016	<10								
5/23/2016			92						
5/24/2016		51							
5/25/2016					150		181	197	175
7/21/2016	14			100		170			
7/22/2016									130
7/25/2016			38					220	
7/26/2016		8							
7/27/2016					250		210		
9/14/2016						150			
9/15/2016	12		64						160
9/16/2016		40					190		
9/19/2016								240	
11/9/2016			80						
11/10/2016		58				180			
11/11/2016	4 (J)								
11/16/2016								200	230
11/17/2016							240		
1/17/2017			54	66		130			
1/19/2017	<10	28							
1/31/2017								110	170
2/1/2017							120		
3/16/2017	14		40			180			
3/17/2017		<10							
3/23/2017								140	220
3/24/2017							180		
4/27/2017			84	92		160			
4/28/2017	<10	<10							
5/2/2017								180	
5/3/2017							170		150
7/18/2017				84 (J)					
8/1/2017				60 (J)					
10/3/2017		36	70	46	410	140			
10/4/2017	34						230	210	190
1/19/2018	<10	10	36	4 (J)					
1/22/2018						140			
1/24/2018								130	210
1/25/2018							190		
6/19/2018	16	<10	70	66		160			
6/20/2018					230			140	
6/21/2018							32		
6/26/2018									200
9/25/2018	24	32	36	80		130			
9/27/2018							200	130	
9/28/2018									180
1/17/2019	20	46				160			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/29/2016	48								
3/30/2016		165	94	75	97	84	69	88	42
5/25/2016	61	233	90	91	97				
5/26/2016						80	75	65	42
7/25/2016						54	44	80	
7/26/2016	40	330	64						48
7/27/2016				76	110				
9/15/2016	54	350							
9/16/2016				78					
9/19/2016					110	96	74		
9/20/2016			72					84	56
11/17/2016	64	440	46	110	74	42	34	84	34
1/31/2017	36								
2/1/2017		150	70	70	100	66			
2/2/2017							96	100	36
3/23/2017	76	250	100						
3/24/2017				100	110	88	82		
3/28/2017								82	48
5/3/2017	32	190	84	18	28	64	42		
5/4/2017								88	22
10/4/2017		520	60		84				
10/5/2017	42			10		50	50		
10/6/2017								120	70
1/25/2018	48	160	86	56	72	70	60		
1/26/2018								96	52
6/20/2018	12	310	64	84					36
6/21/2018						84	76	78	
6/26/2018					72				
9/27/2018							62	110	56
9/28/2018						74			
10/1/2018		250	94	86					
10/2/2018	72				120				
1/22/2019	42	200	79						
1/24/2019					82				42
1/25/2019				51					
1/28/2019						77	69	95	
6/25/2019	56	280	99	91	110			100	63
6/26/2019							<10		
6/27/2019						77			
9/11/2019				85	92	64		74	16
9/12/2019	73	470					87		
9/17/2019			75						
3/12/2020	56								
3/16/2020			100						
3/17/2020		370		93	84	90			
3/18/2020							64	78	49

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
6/27/2018			24	60	8	54		92	
9/26/2018				60					
9/27/2018					86	58			
9/28/2018			16						
10/1/2018	100	140							
10/2/2018									100
10/3/2018							42	86	
1/24/2019	100			54	34	<10			
1/25/2019		<10							
1/30/2019							53		91
1/31/2019			30					160	
6/25/2019	110			58	49				
6/26/2019		44	<10			<10		110	
6/27/2019							30		47
9/10/2019	120						46		
9/11/2019			<10	53					
9/12/2019		58			61	50			100
3/11/2020							44		
3/12/2020			23	76		26			
3/13/2020					32				
3/17/2020								86	
3/18/2020	93	29							120

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/20/2020 1:29 PM

Plant Wansley Client: Southern Company Data: Wansley Landfill

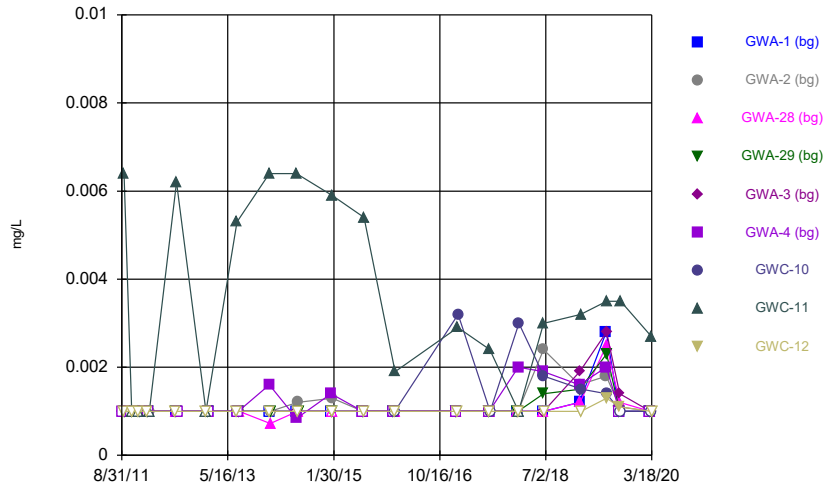
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/23/2016	80							
3/24/2016		55	33					
3/28/2016				172	92			
3/29/2016						517	172	93
5/23/2016		61	48	189				
5/24/2016					115	494	196	162
7/21/2016		32	36	170	120			
7/22/2016						430		
7/25/2016								200
7/26/2016							160	
9/15/2016		62	38	180	130	460		
9/19/2016							220	340
11/15/2016		56	44	180				
11/16/2016					150	500	240	280
11/17/2016	140							
1/25/2017	160	<10						
1/26/2017			<10	120	74	440	130	
1/31/2017								160
3/22/2017		58	34	110	120	440		
3/23/2017	120						190	230
5/1/2017	72	22						
5/2/2017			4 (J)	140	82	420		150
5/3/2017							160	
7/19/2017	120							
8/4/2017	90							
8/24/2017	82							
10/3/2017		16	26	170	100	450		190
10/5/2017	74						200	
1/23/2018	100	64	56	210	120	390		
1/24/2018							94	160
6/19/2018			28					
6/20/2018		<10						
6/21/2018							210	150
6/25/2018				200	110	400		
6/26/2018	100							
9/25/2018					120			
9/26/2018							180	130
10/1/2018			40					
10/2/2018	120	98				440		
10/3/2018				230				
1/21/2019			17			340		
1/22/2019							86	68
1/28/2019		33						
1/30/2019	100			220	120			
6/25/2019						400	200	160
6/26/2019	100	61	46	120	41			
9/10/2019						380	220	
9/11/2019		20						
9/12/2019	110		51	230	170			
9/16/2019								190
3/11/2020		36	42					
3/12/2020	120					360	140	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

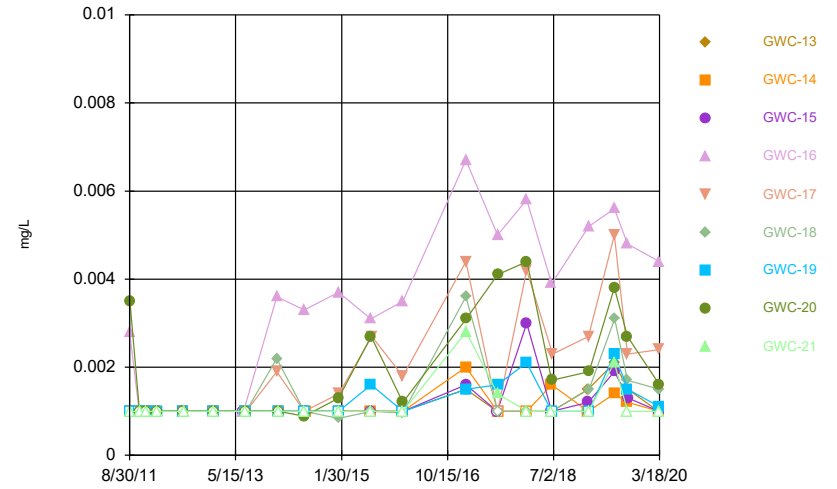
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
3/16/2020				210	110			100

Time Series



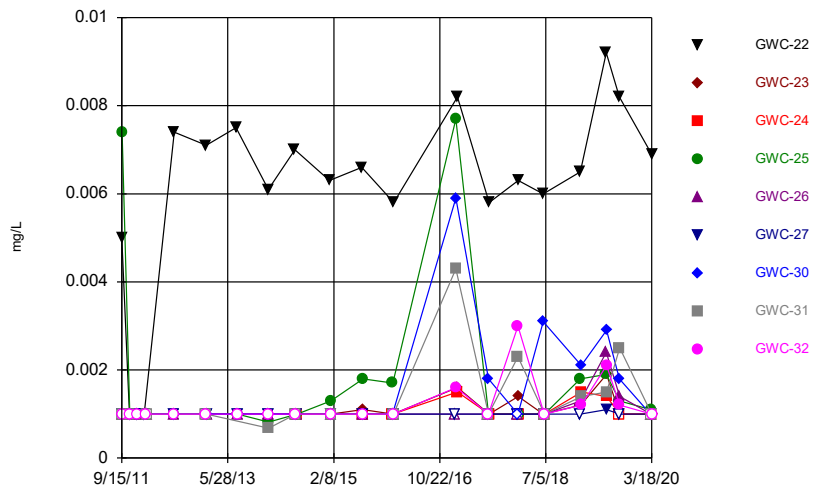
Constituent: Vanadium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



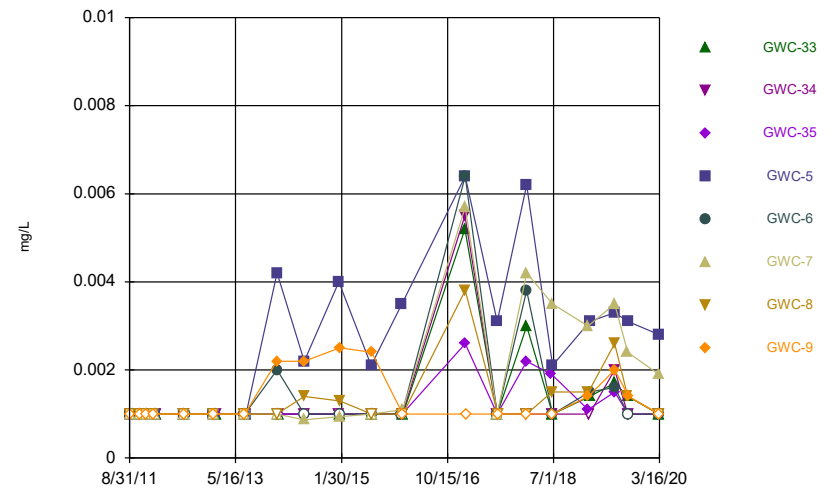
Constituent: Vanadium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Vanadium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Vanadium Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					<0.001	<0.001			
9/13/2011								0.0064	<0.001
9/16/2011	<0.001		<0.001						
9/17/2011		<0.001		<0.001					
10/27/2011	<0.001	<0.001				<0.001			
10/28/2011			<0.001	<0.001				<0.001	<0.001
12/4/2011								<0.001	<0.001
12/12/2011			<0.001	<0.001					
12/13/2011	<0.001								
12/14/2011		<0.001				<0.001			
1/24/2012									<0.001
1/25/2012			<0.001						
1/31/2012	<0.001			<0.001					
2/1/2012						<0.001			
2/7/2012		<0.001							
2/9/2012								<0.001	
7/11/2012									<0.001
7/16/2012			<0.001						
7/17/2012				<0.001					
7/18/2012	<0.001							0.0062	
7/23/2012		<0.001				<0.001			
1/8/2013								<0.001	<0.001
1/23/2013		<0.001				<0.001			
1/24/2013	<0.001		<0.001	<0.001					
7/9/2013								0.0053	
7/10/2013									<0.001
7/17/2013	<0.001					<0.001			
7/23/2013			<0.001						
7/24/2013		<0.001		<0.001					
1/15/2014						0.0016 (J)		0.0064	
1/21/2014	<0.001								<0.001
1/22/2014		<0.001	0.00072 (J)	<0.001					
6/25/2014	<0.001				<0.001	0.00084 (J)		0.0064	
7/1/2014		0.0012 (J)	<0.001						<0.001
7/8/2014				<0.001 (D)					
1/14/2015	<0.001					0.0014 (J)			
1/21/2015			<0.001	<0.001				0.0059	<0.001
1/22/2015		0.0013 (J)							
7/21/2015	<0.001		<0.001		<0.001	<0.001			
7/22/2015		<0.001		<0.001					
7/28/2015								0.0054	<0.001
1/19/2016				<0.001 (D)					
1/20/2016		<0.001				<0.001			
1/21/2016	<0.001								
1/22/2016			<0.001						
1/25/2016							<0.001		
1/26/2016								0.0019 (J)	<0.001
1/17/2017			<0.001	<0.001		<0.001			
1/19/2017	<0.001	<0.001							
1/31/2017								0.0029	<0.001
2/1/2017							0.0032		
8/1/2017			<0.001	<0.001 (*)	<0.001				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				0.0028	<0.001	<0.001	<0.001		
8/31/2011								0.0035	<0.001
9/13/2011	<0.001	<0.001							
9/16/2011			<0.001						
10/26/2011				<0.001		<0.001	<0.001		
10/27/2011		<0.001	<0.001		<0.001			<0.001	<0.001
10/28/2011	<0.001								
12/3/2011		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
12/4/2011	<0.001							<0.001	<0.001
1/24/2012	<0.001	<0.001							
1/25/2012				<0.001	<0.001				
2/8/2012			<0.001			<0.001	<0.001	<0.001	<0.001
7/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
7/17/2012									<0.001
1/8/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/9/2013									<0.001
7/2/2013			<0.001	<0.001					
7/10/2013	<0.001	<0.001							
7/16/2013					<0.001	<0.001	<0.001	<0.001	<0.001
1/14/2014				0.0036 (J)	0.0019 (J)	0.0022 (J)			
1/21/2014	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
6/24/2014			<0.001			<0.001	<0.001	0.00089 (J)	<0.001
6/25/2014				0.0033 (J)	0.001 (J)				
7/1/2014	<0.001	<0.001							
1/13/2015				0.0037 (J)		0.00084 (J)	<0.001	0.0013 (J)	<0.001
1/14/2015		<0.001	<0.001		0.0014 (J)				
1/21/2015	<0.001								
7/22/2015		<0.001	<0.001	0.0031 (J)					
7/23/2015						<0.001	0.0016 (J)	0.0027 (J)	<0.001
7/28/2015	<0.001				0.0027 (J)				
1/26/2016									<0.001
1/27/2016	<0.001	<0.001	<0.001	0.0035 (J)	0.0018 (J)	0.00096 (J)	<0.001	0.0012 (J)	
1/31/2017	0.0015 (J)								
2/1/2017		0.002 (J)	0.0016 (J)	0.0067	0.0044	0.0036			
2/2/2017							0.0015 (J)	0.0031	0.0028
8/4/2017	<0.001		<0.001						
8/7/2017		<0.001		0.005	<0.001	<0.001	0.0016 (J)	0.0041	0.0014 (J)
1/25/2018	<0.001	<0.001	0.003	0.0058	0.0042	<0.001	0.0021 (J)		
1/26/2018								0.0044	<0.001
6/20/2018	<0.001	0.0016 (J)	<0.001	0.0039					<0.001
6/21/2018						<0.001	<0.001	0.0017 (J)	
6/26/2018					0.0023 (J)				
1/22/2019	0.0015	<0.001	0.0012						
1/24/2019					0.0027				<0.001
1/25/2019				0.0052					
1/28/2019						0.0015	<0.001	0.0019	
6/25/2019	0.0021	0.0014	0.0019	0.0056	0.005			0.0038	0.0021
6/26/2019							0.0023		
6/27/2019						0.0031			
9/11/2019				0.0048	0.0023	0.0017		0.0027	<0.001
9/12/2019	0.0015	0.0012					0.0015		
9/17/2019			0.0013						

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
3/12/2020	<0.001								
3/16/2020			<0.001						
3/17/2020		<0.001		0.0044	0.0024	0.0015			
3/18/2020							0.0011	0.0016	<0.001

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	0.005						<0.001		<0.001
9/16/2011		<0.001							
9/17/2011				0.0074	<0.001	<0.001		<0.001	
10/28/2011							<0.001		
10/29/2011	<0.001	<0.001			<0.001	<0.001			
10/31/2011				<0.001				<0.001	<0.001
12/13/2011	<0.001	<0.001					<0.001		<0.001
12/14/2011				<0.001	<0.001	<0.001			
1/25/2012	<0.001					<0.001			
1/31/2012		<0.001							
2/1/2012									<0.001
2/7/2012				<0.001	<0.001			<0.001	
2/8/2012							<0.001		
7/17/2012				<0.001	<0.001	<0.001			<0.001
7/18/2012	0.0074	<0.001					<0.001		
1/22/2013	0.0071	<0.001							
1/23/2013								<0.001	<0.001
1/24/2013					<0.001	<0.001	<0.001		
7/16/2013	0.0075								
7/23/2013		<0.001							
7/24/2013				<0.001	<0.001	<0.001	<0.001		<0.001
1/21/2014	0.0061								
1/22/2014		<0.001							
1/23/2014				0.00082 (J)	<0.001	<0.001	<0.001	0.00068 (J)	<0.001
6/25/2014	0.007								
7/1/2014		<0.001					<0.001	<0.001	<0.001
7/8/2014			<0.001	<0.001	<0.001	<0.001			
1/14/2015	0.0063								
1/20/2015							<0.001		<0.001
1/21/2015				0.0013 (J)	<0.001	<0.001		<0.001	
1/22/2015		<0.001							
7/23/2015	0.0066								
7/29/2015		0.0011 (J)							
7/30/2015				0.0018 (J)		<0.001	<0.001		<0.001
7/31/2015			<0.001		<0.001				
1/19/2016							0.001 (J)		
1/20/2016			<0.001						
1/21/2016		<0.001		0.0017 (J)					
1/22/2016						<0.001			
1/25/2016					<0.001			<0.001	<0.001
1/26/2016	0.0058								
1/19/2017					<0.001				
1/20/2017						<0.001			
1/24/2017				0.0077			0.0059		
1/25/2017								0.0043	
1/26/2017									0.0016 (J)
2/3/2017	0.0082	0.0016 (J)	0.0015 (J)						
8/3/2017				<0.001	<0.001	<0.001			<0.001
8/4/2017							0.0018 (J)	<0.001	
8/8/2017	0.0058	<0.001	<0.001						
1/19/2018						<0.001			
1/22/2018					<0.001				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

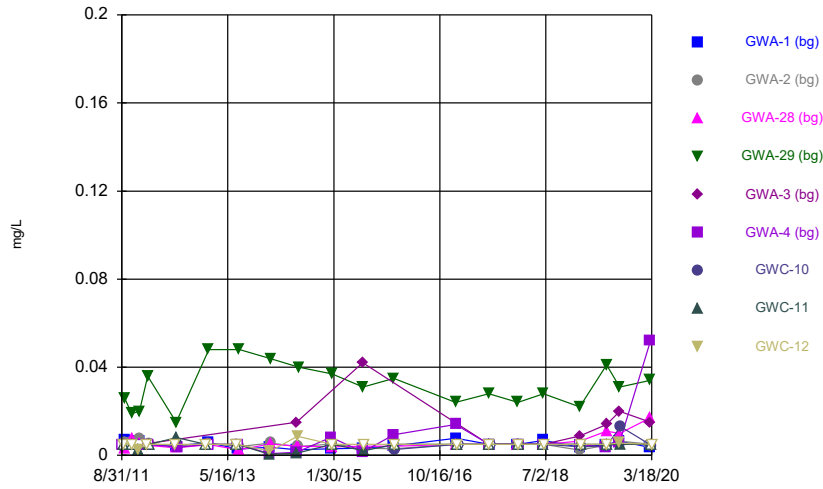
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.001	<0.001			
9/7/2011						<0.001	<0.001	<0.001
9/16/2011	<0.001	<0.001	<0.001					
10/27/2011				<0.001				
10/30/2011	<0.001				<0.001	<0.001	<0.001	<0.001
10/31/2011		<0.001	<0.001					
12/4/2011								<0.001
12/5/2011				<0.001	<0.001	<0.001	<0.001	
12/12/2011	<0.001	<0.001	<0.001					
1/19/2012							<0.001	<0.001
1/25/2012				<0.001	<0.001	<0.001		
2/1/2012	<0.001	<0.001	<0.001					
7/16/2012		<0.001	<0.001					
7/17/2012	<0.001							
7/18/2012				<0.001		<0.001	<0.001	<0.001
7/24/2012					<0.001			
1/7/2013						<0.001	<0.001	
1/8/2013					<0.001			<0.001
1/9/2013				<0.001				
1/22/2013		<0.001	<0.001					
1/23/2013	<0.001							
7/2/2013			<0.001					
7/9/2013					<0.001	<0.001	<0.001	<0.001
7/17/2013	<0.001	<0.001		<0.001				
1/14/2014						<0.001	<0.001	0.0022 (J)
1/15/2014				0.0042 (J)	0.002 (J)			
1/21/2014			<0.001					
1/23/2014	<0.001	<0.001						
6/24/2014						0.00087 (J)	0.0014 (J)	0.0022 (J)
6/25/2014		<0.001	<0.001	0.0022 (J)	<0.001			
1/13/2015				0.004 (J)				
1/14/2015		<0.001	<0.001					
1/20/2015	<0.001				<0.001	0.00094 (J)	0.0013 (J)	0.0025 (J)
7/24/2015				0.0021 (J)	<0.001			
7/27/2015						<0.001	<0.001	0.0024 (J)
7/28/2015			<0.001					
7/29/2015	<0.001	<0.001						
1/20/2016				0.0035 (J)	<0.001			
1/21/2016		<0.001	<0.001					
1/25/2016	<0.001							
1/26/2016						0.0011 (J)	<0.001	<0.001
1/25/2017	0.0052	0.0055						
1/26/2017			0.0026	0.0064	0.0064	0.0057	0.0038	
1/31/2017								<0.001
8/3/2017		<0.001	<0.001	0.0031	<0.001			
8/4/2017	<0.001					<0.001		
8/7/2017							<0.001	<0.001
1/23/2018	0.003	<0.001	0.0022 (J)	0.0062	0.0038	0.0042		
1/24/2018							<0.001	<0.001
6/19/2018			0.0019 (J)					
6/20/2018		<0.001						
6/21/2018							0.0015 (J)	<0.001

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

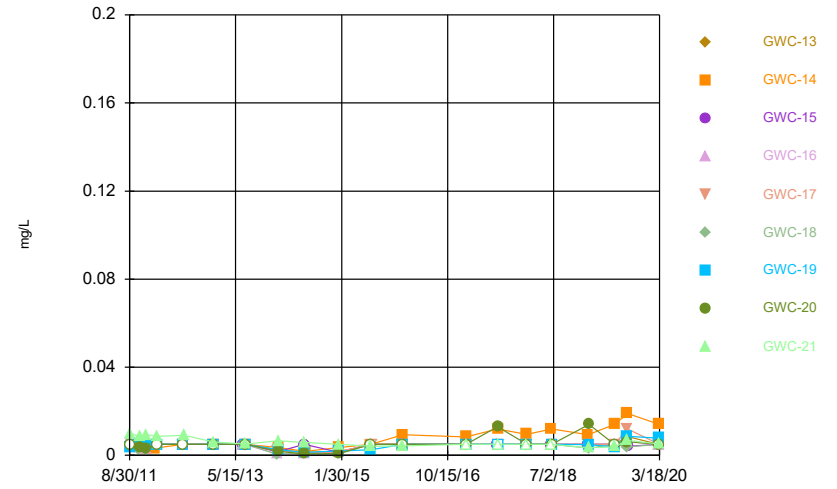
	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
6/25/2018				0.0021 (J)	<0.001	0.0035		
6/26/2018	<0.001							
1/21/2019			0.0011			0.003		
1/22/2019							0.0015	0.0014
1/28/2019		<0.001						
1/30/2019	0.0014			0.0031	0.0015			
6/25/2019						0.0035	0.0026	0.002
6/26/2019	0.0017	0.002	0.0015	0.0033	0.0016			
9/10/2019						0.0024	0.0014	
9/11/2019		<0.001						
9/12/2019	0.0014		<0.001	0.0031	<0.001			
9/16/2019								0.0014
3/11/2020		<0.001	<0.001					
3/12/2020	<0.001					0.0019	<0.001	
3/16/2020				0.0028	<0.001			<0.001

Time Series



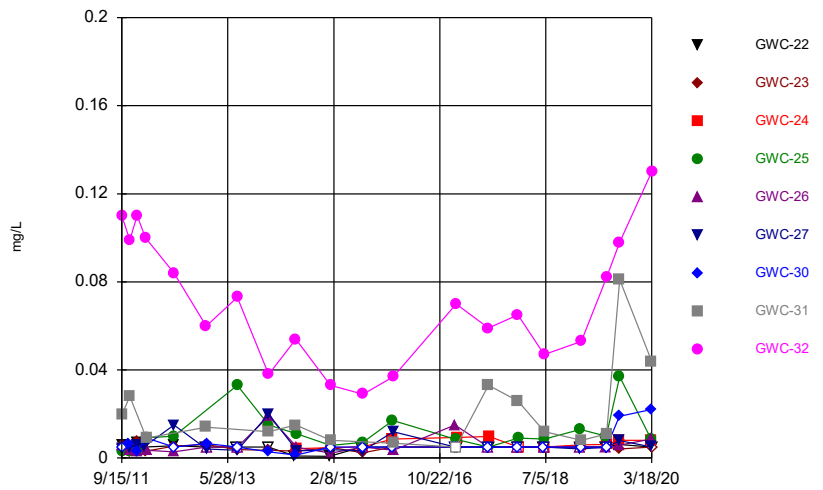
Constituent: Zinc Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



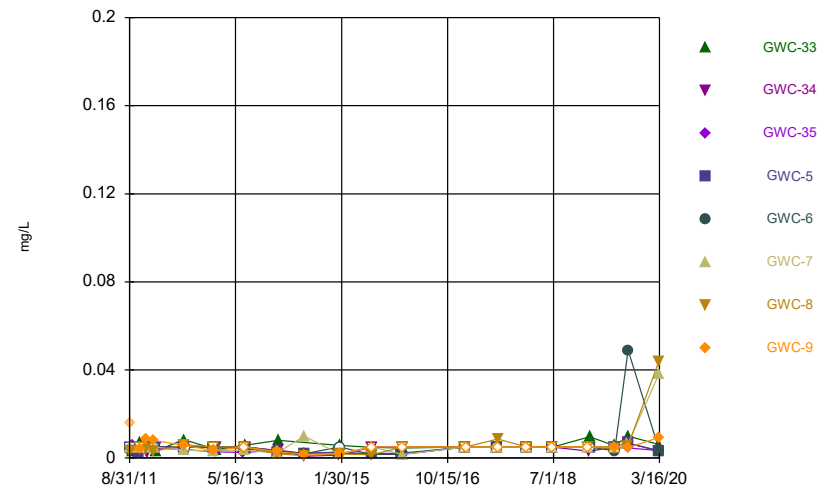
Constituent: Zinc Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Zinc Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series



Constituent: Zinc Analysis Run 5/20/2020 1:28 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWA-28 (bg)	GWA-29 (bg)	GWA-3 (bg)	GWA-4 (bg)	GWC-10	GWC-11	GWC-12
8/31/2011					0.0037	<0.005			
9/13/2011								<0.005	<0.005
9/16/2011	0.0071		0.003						
9/17/2011		0.0061		0.026					
10/27/2011	0.0062	0.0059				<0.005			
10/28/2011			0.0073	0.019				<0.005	<0.005
12/4/2011								0.0025	0.0027
12/12/2011			0.0053	0.02					
12/13/2011	0.0065								
12/14/2011		0.0077				<0.005			
1/24/2012									<0.005
1/25/2012			0.0046						
1/31/2012	0.0047			0.036					
2/1/2012						<0.005			
2/7/2012		0.0053							
2/9/2012								<0.005	
7/11/2012									<0.005
7/16/2012			0.0034						
7/17/2012				0.015					
7/18/2012	0.0044							0.008	
7/23/2012		0.0043				0.0037			
1/8/2013								<0.005	<0.005
1/23/2013		0.0054				<0.005			
1/24/2013	0.0058		0.0049	0.048					
7/9/2013								<0.005	
7/10/2013									<0.005
7/17/2013	0.0028					<0.005			
7/23/2013			0.0026						
7/24/2013		0.004		0.048					
1/15/2014						0.00085 (J)		0.00052 (J)	
1/21/2014	0.0037								0.0019 (J)
1/22/2014		0.0056	0.0052	0.044					
6/25/2014	0.0026				0.015	0.0014 (J)		0.00089 (J)	
7/1/2014		0.004	0.0042						0.0087
7/8/2014				0.04 (D)					
1/14/2015	0.003					0.0082			
1/21/2015			0.0038	0.037				<0.005	<0.005
1/22/2015		0.0051							
7/21/2015	0.0033		0.0042		0.042	0.0015 (J)			
7/22/2015		0.0033		0.031					
7/28/2015								0.0021 (J)	<0.005
1/19/2016				0.035 (D)					
1/20/2016		0.0029				0.0093			
1/21/2016	0.0043								
1/22/2016			0.0041						
1/25/2016							0.0027		
1/26/2016								<0.005	<0.005
1/17/2017			<0.005	0.024		0.014 (J)			
1/19/2017	0.0077 (J)	<0.005							
1/31/2017								<0.005	<0.005
2/1/2017							<0.005		
8/1/2017			<0.005	0.028	<0.005				

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
8/30/2011				0.0081	0.0035	<0.005	0.0035		
8/31/2011								<0.005	0.01
9/13/2011	<0.005	0.0039							
9/16/2011			<0.005						
10/26/2011				0.0035	0.0032	0.0025	0.0054		
10/27/2011		0.0046	<0.005					0.0038	0.0087
10/28/2011	<0.005								
12/3/2011		0.0028	<0.005	0.0033	0.0027	0.0027	0.0046		
12/4/2011	0.0028							0.0028	0.0093
1/24/2012	<0.005	0.0033							
1/25/2012				<0.005	<0.005				
2/8/2012							<0.005	<0.005	0.0086
2/9/2012			<0.005			<0.005			
7/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
7/17/2012									0.009
1/8/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1/9/2013									0.006
7/2/2013			<0.005	<0.005					
7/10/2013	<0.005	<0.005							
7/16/2013					<0.005	<0.005	<0.005	<0.005	0.0052
1/14/2014				0.00074 (J)	0.0021 (J)	0.0005 (J)			
1/21/2014	0.0026	0.0036	0.0017 (J)				0.0025	0.0018 (J)	0.0066
6/24/2014			<0.005			0.00099 (J)	0.0014 (J)	0.0006 (J)	0.0059
6/25/2014				0.00071 (J)	0.0012 (J)				
7/1/2014	0.0014 (J)	0.0018 (J)							
1/13/2015				0.0015 (J)		0.00063 (J)	0.0019 (J)	0.00086 (J)	0.005
1/14/2015		0.0035	0.0013 (J)		0.0015 (J)				
1/21/2015	0.0018 (J)								
7/22/2015		0.005	<0.005	<0.005					
7/23/2015						<0.005	0.0025	<0.005	0.0042
7/28/2015	<0.005				<0.005				
1/26/2016									0.0043
1/27/2016	<0.005	0.0094	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1/31/2017	<0.005								
2/1/2017		0.0084 (J)	<0.005	<0.005	<0.005	<0.005			
2/2/2017							<0.005	<0.005	<0.005
8/4/2017	<0.005		<0.005						
8/7/2017		0.012 (J)		<0.005	<0.005	<0.005	<0.005	0.013 (J)	<0.005
1/25/2018	<0.005	0.0095 (J)	<0.005	<0.005	<0.005	<0.005	<0.005		
1/26/2018								<0.005	<0.005
6/20/2018	<0.005	0.012 (J)	<0.005	<0.005					<0.005
6/21/2018						<0.005	<0.005	<0.005	
6/26/2018					<0.005				
1/22/2019	<0.005	0.0094	<0.005						
1/24/2019					<0.005				0.0034 (J)
1/25/2019				<0.005					
1/28/2019						0.0033 (J)	0.0049 (J)	0.014	
6/25/2019	<0.005	0.014	<0.005	<0.005	<0.005			<0.005	0.0039 (J)
6/26/2019							0.0038 (J)		
6/27/2019						<0.005			
9/11/2019				0.0062	0.012	0.0038 (J)		0.0061	0.0068
9/12/2019	0.0085	0.019					0.0086		

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-18	GWC-19	GWC-20	GWC-21
9/17/2019			0.0041 (J)						
3/12/2020	<0.005								
3/16/2020			<0.005						
3/17/2020		0.014		<0.005	<0.005	<0.005			
3/18/2020							0.0078	<0.005	0.0052

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-23	GWC-24	GWC-25	GWC-26	GWC-27	GWC-30	GWC-31	GWC-32
9/15/2011	0.0058						<0.005		0.11
9/16/2011		0.0058							
9/17/2011				0.0028	0.0061	0.0044		0.02	
10/28/2011							0.0062		
10/29/2011	0.0031	0.0032			0.0038	0.0049			
10/31/2011				0.003				0.028	0.099
12/13/2011	0.0068	0.0074					0.003		0.11
12/14/2011				0.0029	0.0033	0.0057			
1/25/2012	<0.005					0.0051			
1/31/2012		0.0031							
2/1/2012									0.1
2/7/2012				0.0092	0.0036			0.0091	
2/8/2012							0.009		
7/17/2012				0.01	0.0028	0.015			0.084
7/18/2012	0.0056	0.0054					<0.005		
1/22/2013	<0.005	0.0061							
1/23/2013								0.014	0.06
1/24/2013					<0.005	0.0041	0.0066		
7/16/2013	<0.005								
7/23/2013		0.0038							
7/24/2013				0.033	<0.005	0.0036	<0.005		0.073
1/21/2014	<0.005								
1/22/2014		0.0035							
1/23/2014				0.015	0.019	0.02	0.0028	0.012	0.038
6/25/2014	0.00094 (J)								
7/1/2014		0.0031					0.0014 (J)	0.015	0.054
7/8/2014			0.0043	0.011	0.0048	0.0032			
1/14/2015	0.00073 (J)								
1/20/2015							<0.005		0.033
1/21/2015				0.0057	0.0022 (J)	0.0039		0.0081	
1/22/2015		0.0049							
7/23/2015	<0.005								
7/29/2015		0.0024 (J)							
7/30/2015				0.0072		0.0033	<0.005		0.029
7/31/2015			0.0052		<0.005				
1/19/2016							<0.005		
1/20/2016			0.0086						
1/21/2016		<0.005		0.017					
1/22/2016						0.012			
1/25/2016					0.0035			0.0067	0.037
1/26/2016	<0.005								
1/19/2017					0.015 (J)				
1/20/2017						<0.005			
1/24/2017				0.0085 (J)			<0.005		
1/25/2017								<0.005	
1/26/2017									0.07
2/3/2017	<0.005	<0.005	0.0094 (J)						
8/3/2017				<0.005	<0.005	<0.005			0.059
8/4/2017							<0.005	0.033	
8/8/2017	<0.005	<0.005	0.0098 (J)						
1/19/2018						<0.005			
1/22/2018					<0.005				

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
8/31/2011				<0.005	0.0037			
9/7/2011						<0.005	0.0029	0.016 (O)
9/16/2011	0.0033	0.0029	0.006					
10/27/2011				0.0025				
10/30/2011	0.0071				0.0043	<0.005	<0.005	0.004
10/31/2011		<0.005	0.0055					
12/4/2011								0.0086
12/5/2011				<0.005	0.0047	<0.005	0.004	
12/12/2011		0.0027	0.006					
12/13/2011	0.0062							
1/19/2012							0.0029	0.0081
1/25/2012				<0.005	<0.005	<0.005		
2/1/2012	0.0033	<0.005	0.0046					
7/16/2012		<0.005	0.0038					
7/17/2012	0.0083							
7/18/2012				<0.005		0.0035	0.006	0.0058
7/24/2012					<0.005			
1/7/2013						0.0033	<0.005	
1/8/2013					<0.005			0.0034
1/9/2013				<0.005				
1/22/2013		<0.005	0.0028					
1/23/2013	0.0038							
7/2/2013			0.0025					
7/9/2013					<0.005	0.0035	<0.005	<0.005
7/17/2013	0.0059	<0.005		0.0043				
1/14/2014						0.0022 (J)	0.002 (J)	0.003
1/15/2014				0.0023 (J)	0.0034			
1/21/2014			0.0036					
1/23/2014	0.008	0.0034						
6/24/2014						0.01	0.0011 (J)	0.0016 (J)
6/25/2014		0.00083 (J)	0.0021 (J)	0.0022 (J)	0.002 (J)			
1/13/2015				0.0027				
1/14/2015		0.0014 (J)	0.0022 (J)					
1/20/2015	0.0058				<0.005	0.0018 (J)	0.0018 (J)	0.0021 (J)
7/24/2015				0.002 (J)	0.0017 (J)			
7/27/2015						<0.005	0.0015 (J)	<0.005
7/28/2015			0.0016 (J)					
7/29/2015	0.0049	<0.005						
1/20/2016				0.0022 (J)	0.0018 (J)			
1/21/2016		<0.005	0.0016 (J)					
1/25/2016	0.0046							
1/26/2016						0.0016 (J)	<0.005	<0.005
1/25/2017	<0.005	<0.005						
1/26/2017			<0.005	<0.005	<0.005	<0.005	<0.005	
1/31/2017								<0.005
8/3/2017		<0.005	<0.005	<0.005	<0.005			
8/4/2017	<0.005					<0.005		
8/7/2017							0.0086 (J)	<0.005
1/23/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
1/24/2018							<0.005	<0.005
6/19/2018			<0.005					
6/20/2018		<0.005						

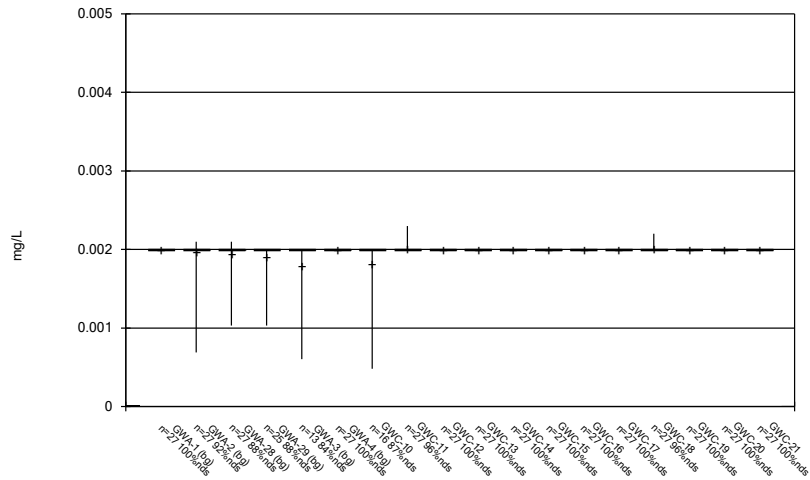
Time Series

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-34	GWC-35	GWC-5	GWC-6	GWC-7	GWC-8	GWC-9
6/21/2018							<0.005	<0.005
6/25/2018				<0.005	<0.005	<0.005		
6/26/2018	<0.005							
1/21/2019			<0.005			<0.005		
1/22/2019							<0.005	<0.005
1/28/2019		0.0031 (J)						
1/30/2019	0.0096			<0.005	<0.005			
6/25/2019						<0.005	0.0043 (J)	0.005
6/26/2019	0.0056	<0.005	<0.005	<0.005	0.0033 (J)			
9/10/2019						0.0063	0.0051	
9/11/2019		0.0068						
9/12/2019	0.01		0.0045 (J)	0.0067	0.049			
9/16/2019								0.0049 (J)
3/11/2020		0.0032 (J)	0.0034 (J)					
3/12/2020	0.0061					0.038	0.044	
3/16/2020				0.0033 (J)	0.0032 (J)			0.0094

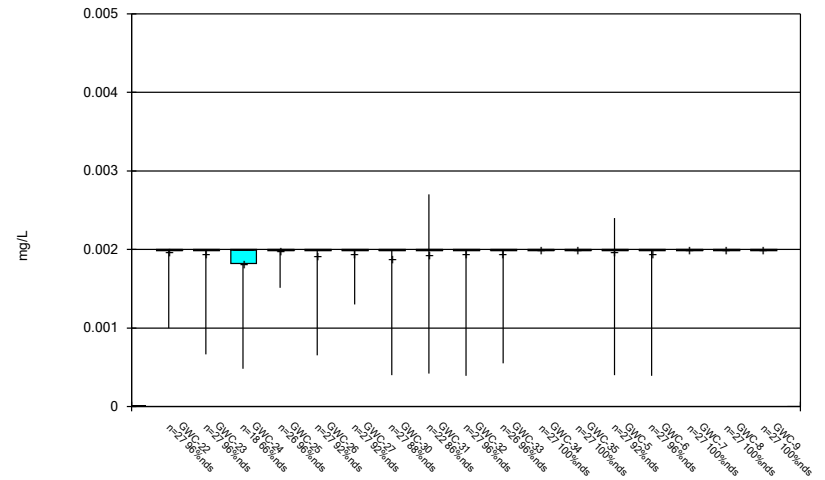
FIGURE B.

Box & Whiskers Plot



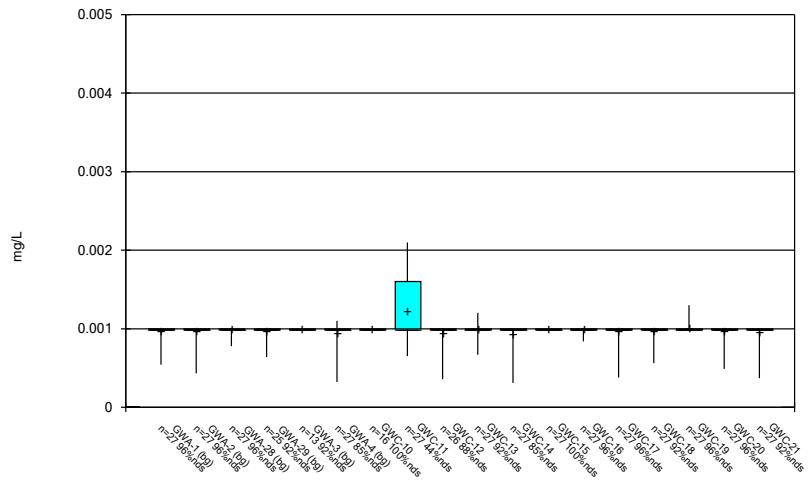
Constituent: Antimony Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



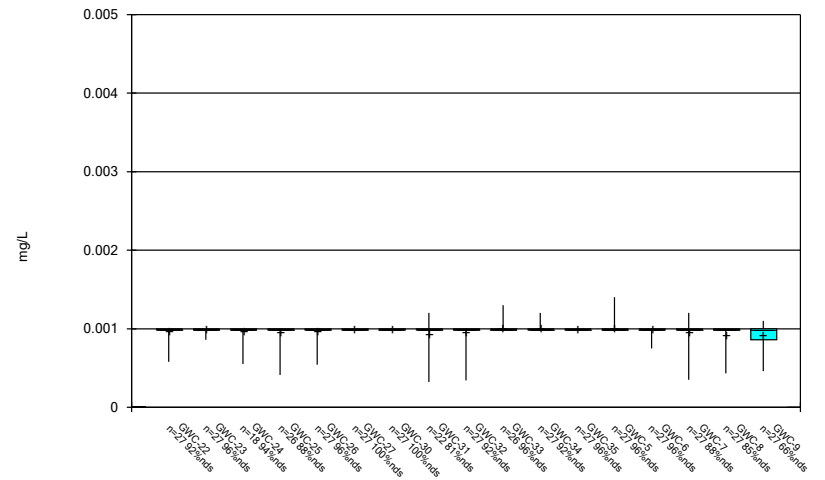
Constituent: Antimony Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



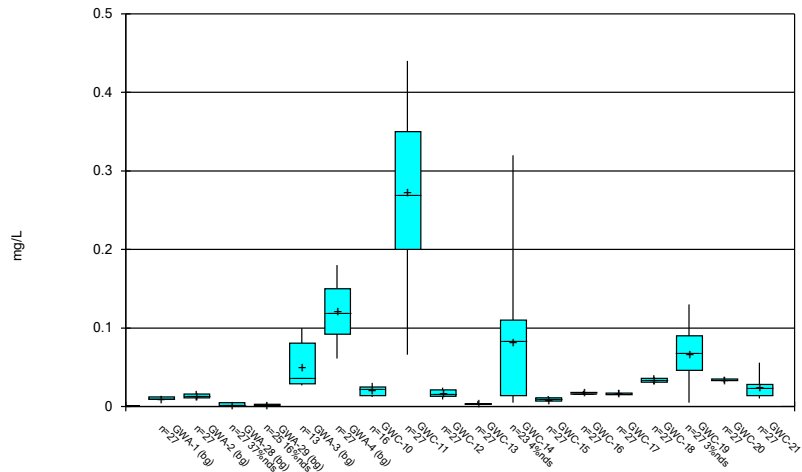
Constituent: Arsenic Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



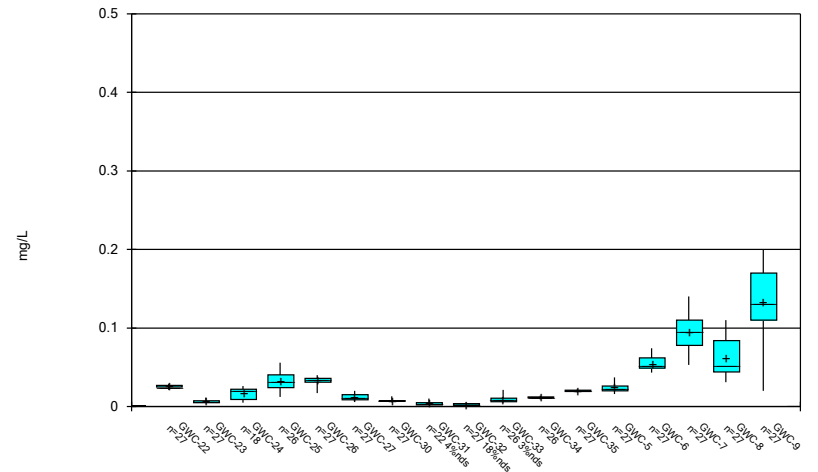
Constituent: Arsenic Analysis Run 5/20/2020 1:29 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



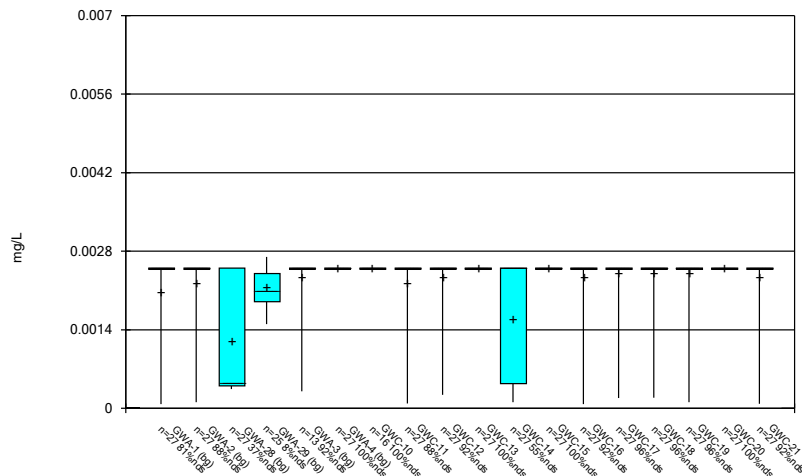
Constituent: Barium Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



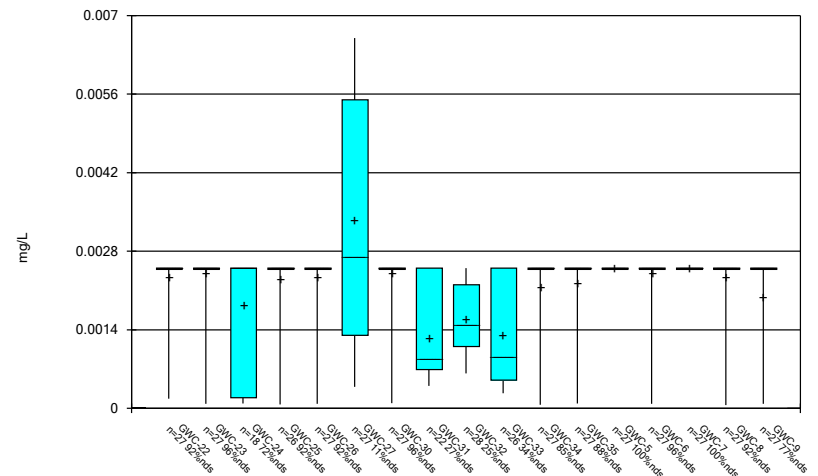
Constituent: Barium Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



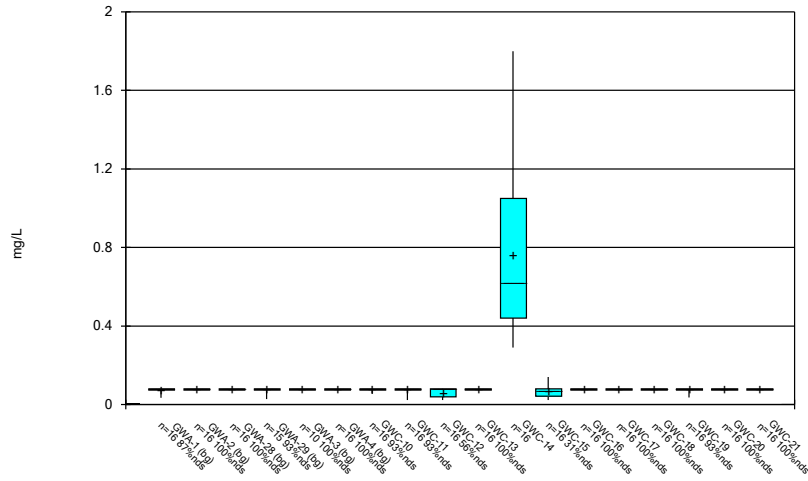
Constituent: Beryllium Analysis Run 5/20/2020 1:29 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



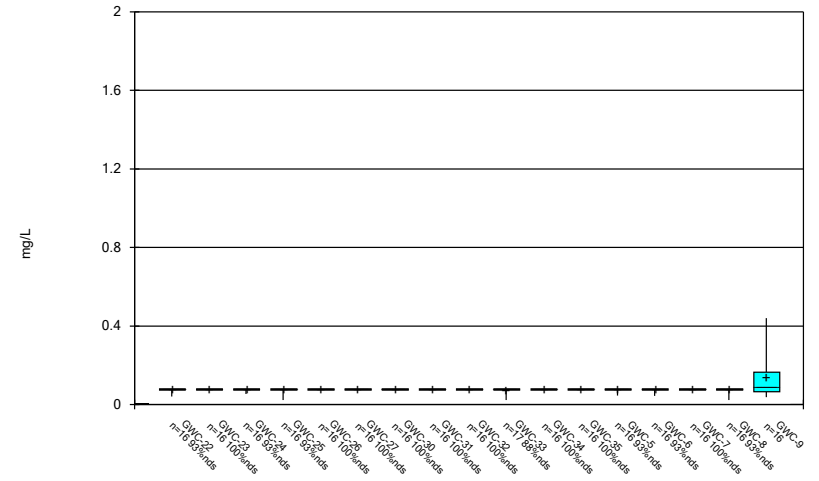
Constituent: Beryllium Analysis Run 5/20/2020 1:30 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



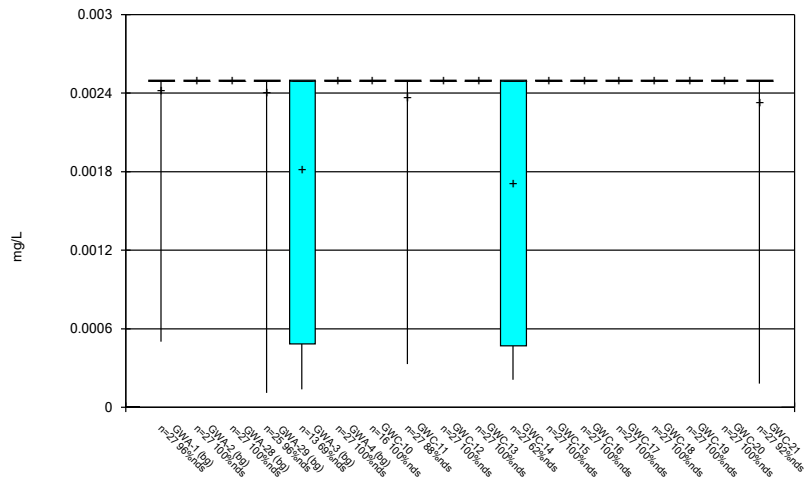
Constituent: Boron, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



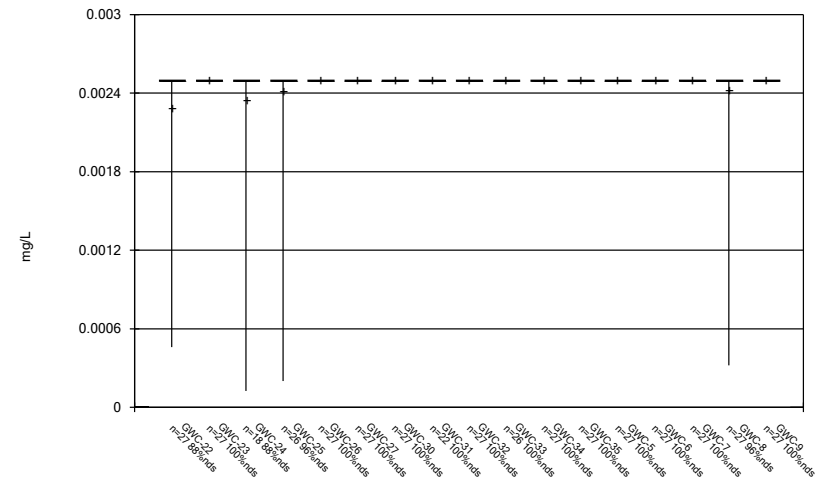
Constituent: Boron, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



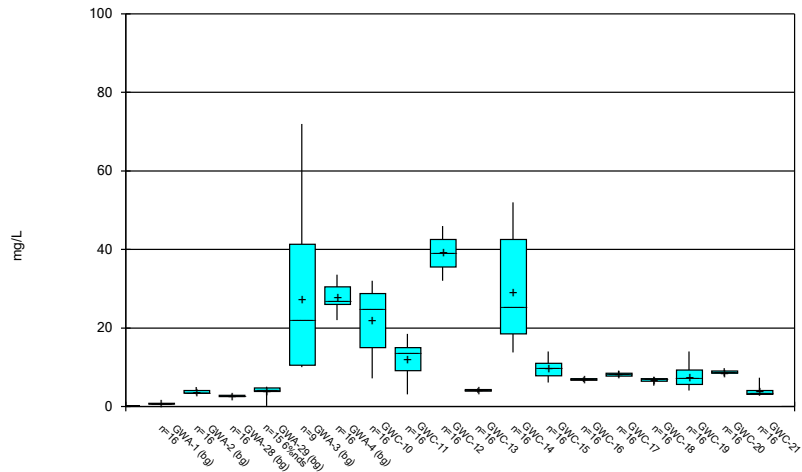
Constituent: Cadmium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



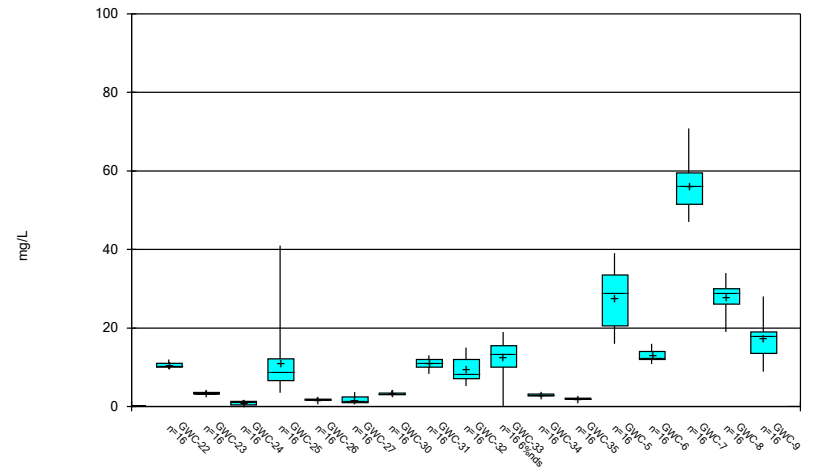
Constituent: Cadmium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



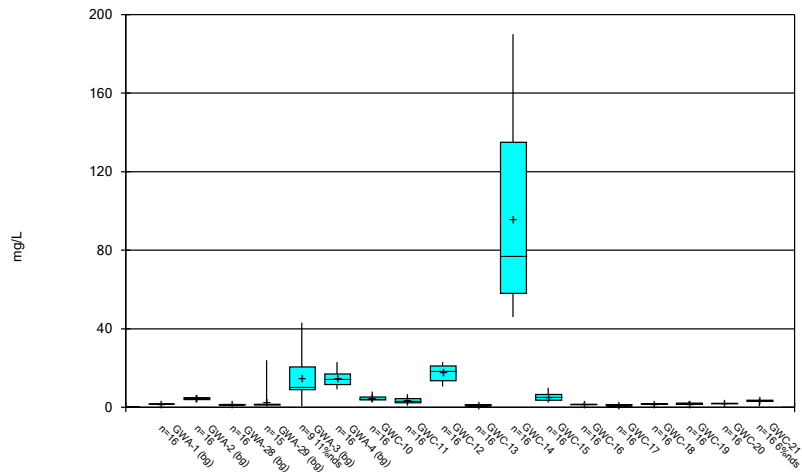
Constituent: Calcium, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



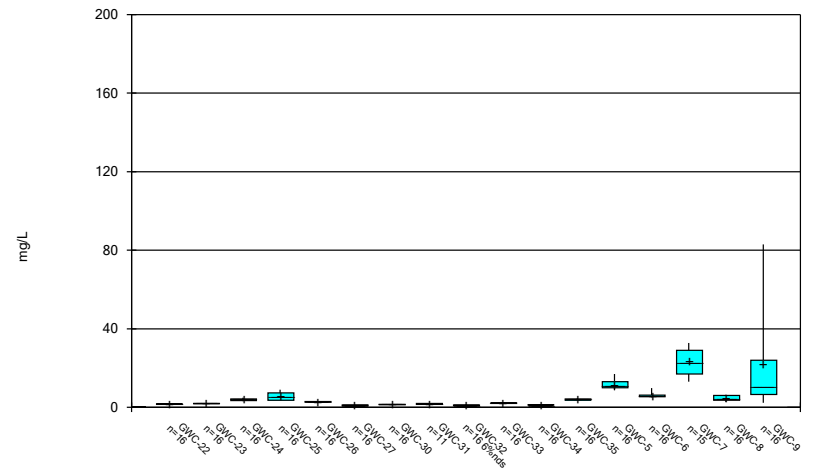
Constituent: Calcium, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



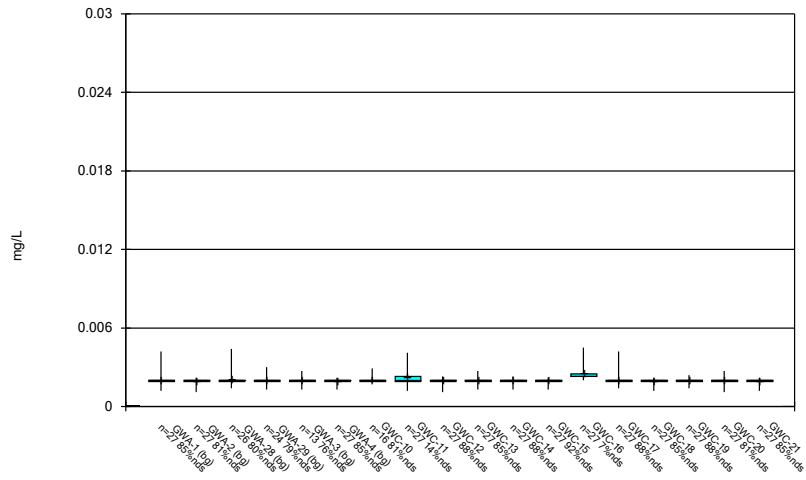
Constituent: Chloride, Total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



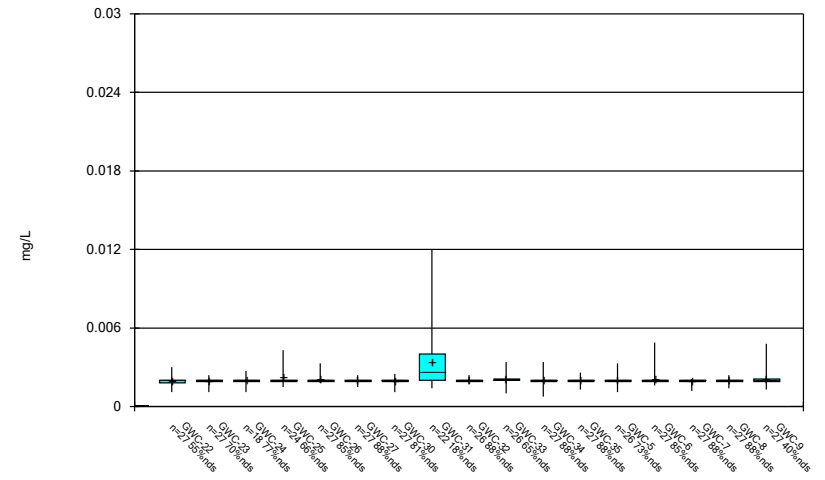
Constituent: Chloride, Total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



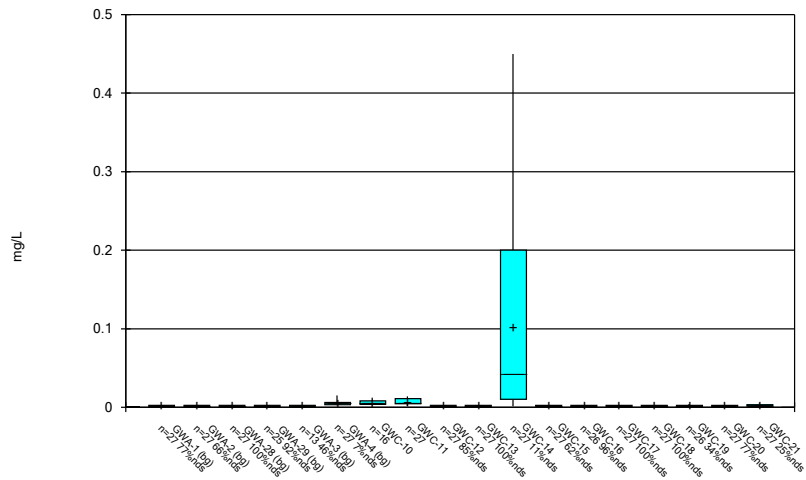
Constituent: Chromium Analysis Run 5/20/2020 1:30 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



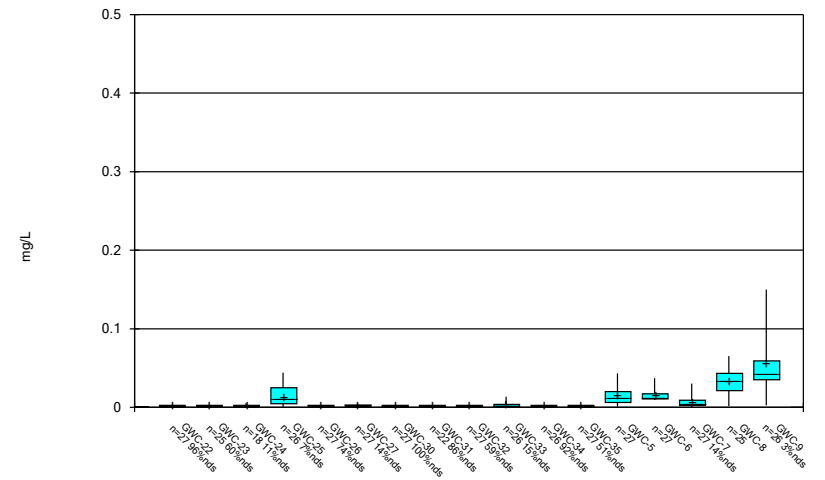
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Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



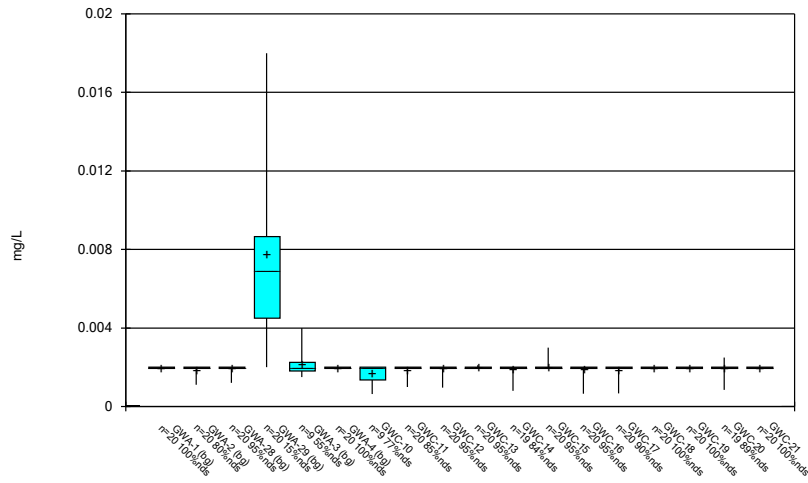
Constituent: Cobalt Analysis Run 5/20/2020 1:30 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



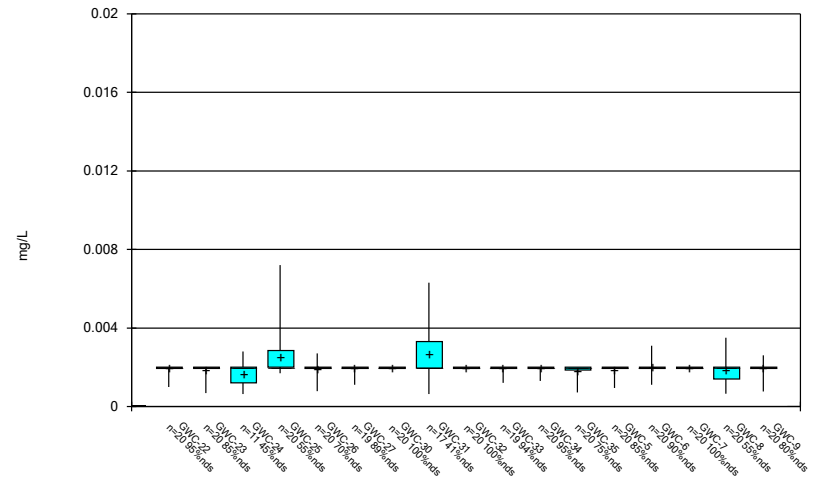
Constituent: Cobalt Analysis Run 5/20/2020 1:30 PM
Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



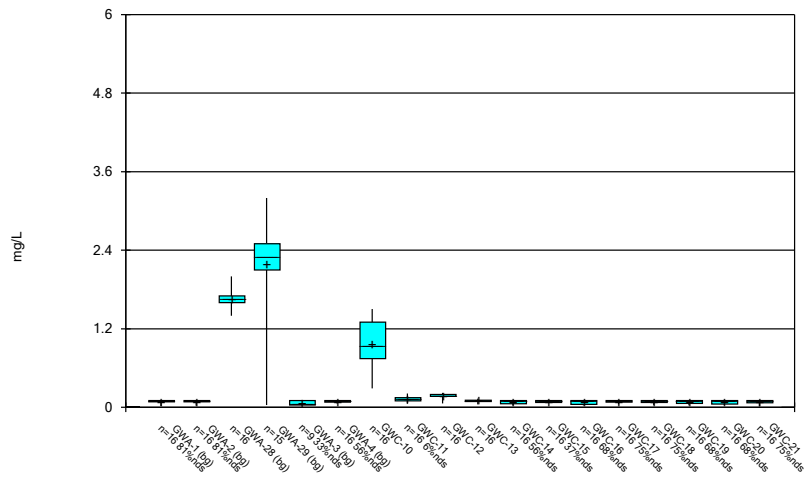
Constituent: Copper Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



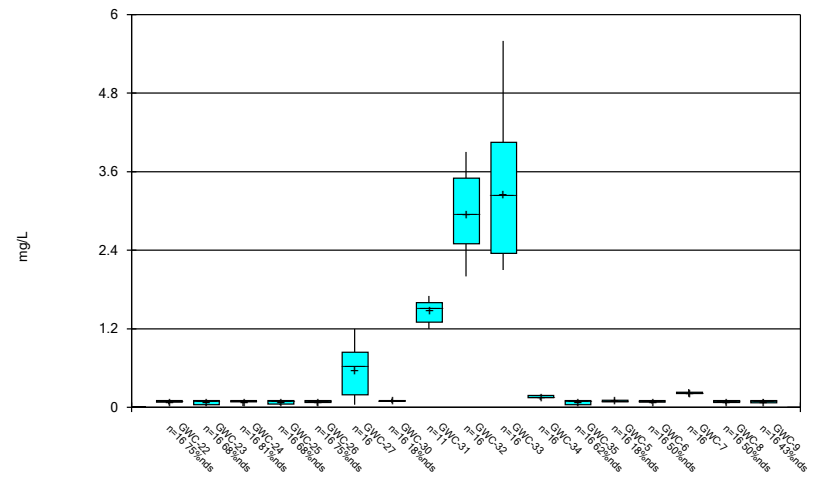
Constituent: Copper Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



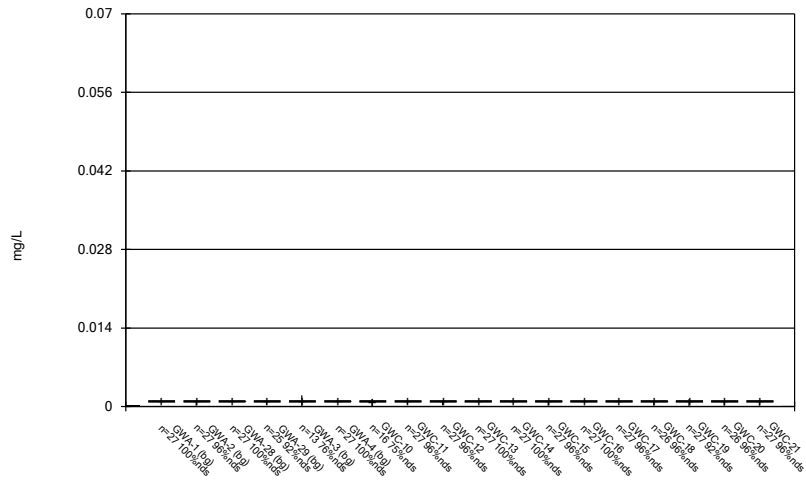
Constituent: Fluoride, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



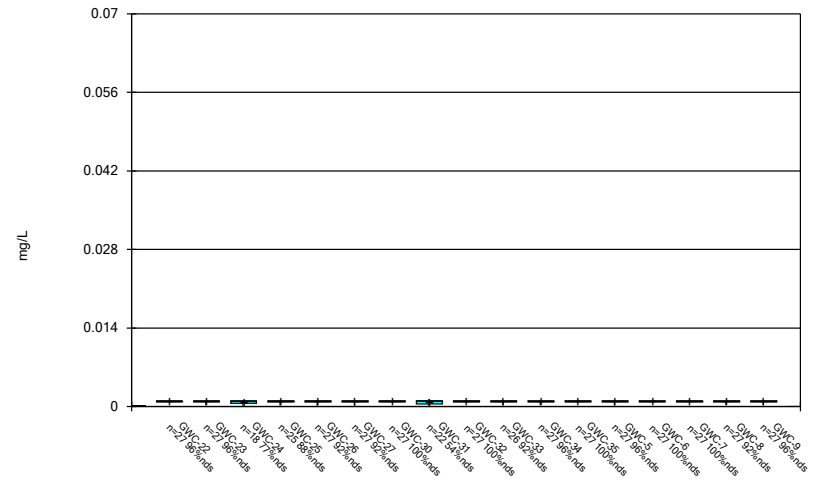
Constituent: Fluoride, total Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



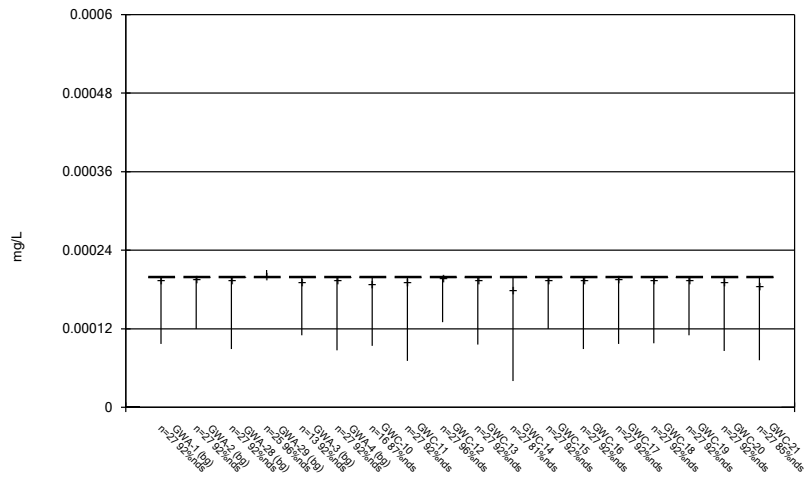
Constituent: Lead Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



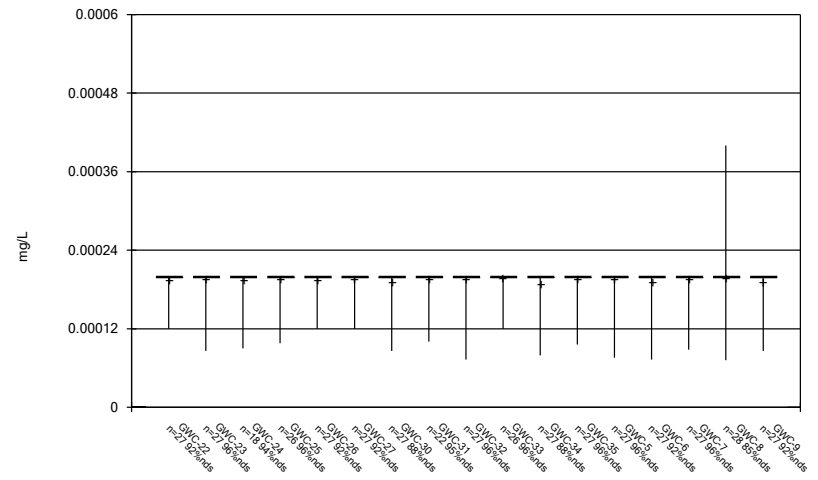
Constituent: Lead Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



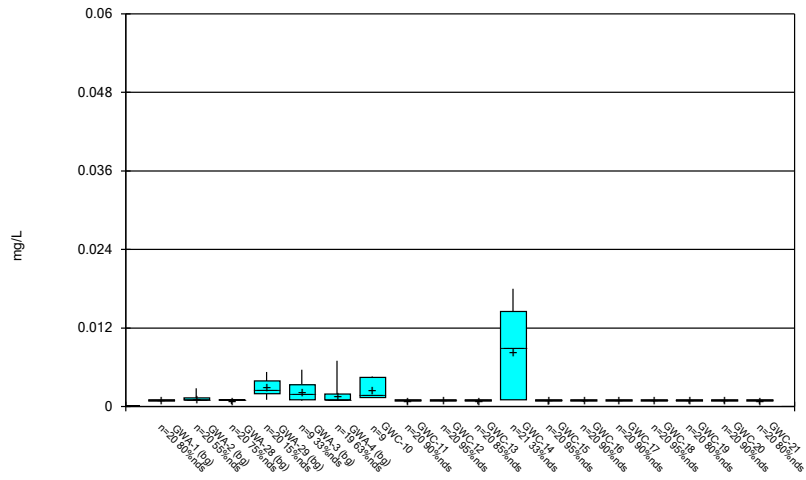
Constituent: Mercury Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



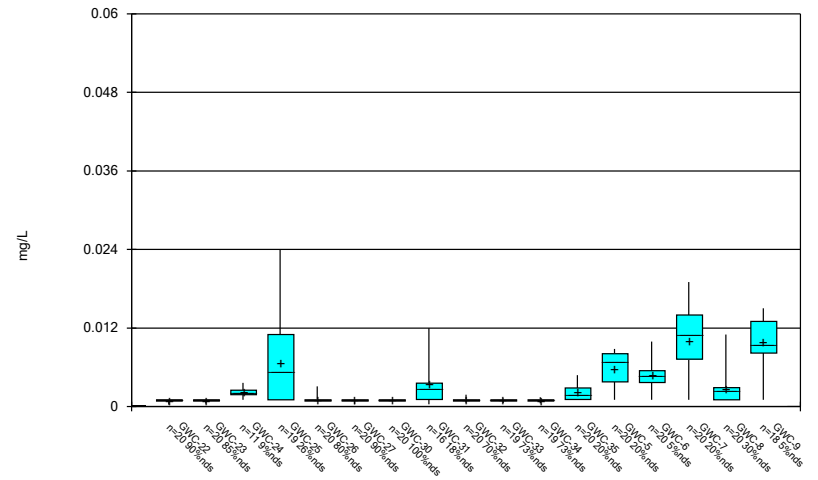
Constituent: Mercury Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



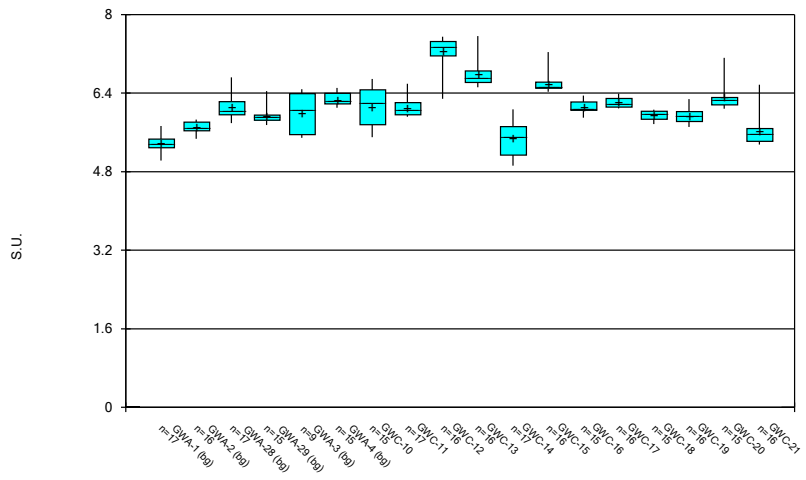
Constituent: Nickel Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



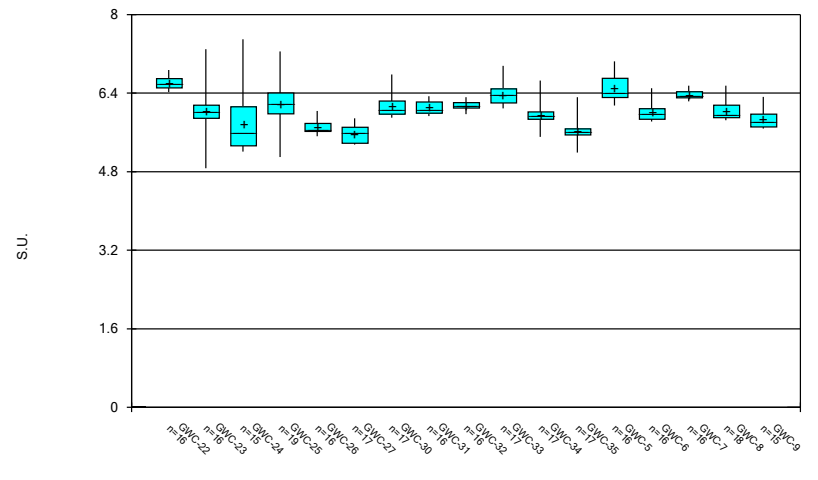
Constituent: Nickel Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



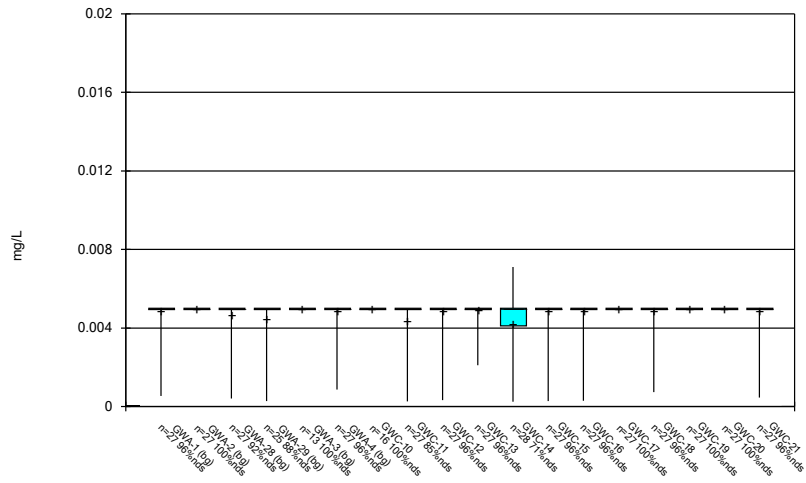
Constituent: pH, Field Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



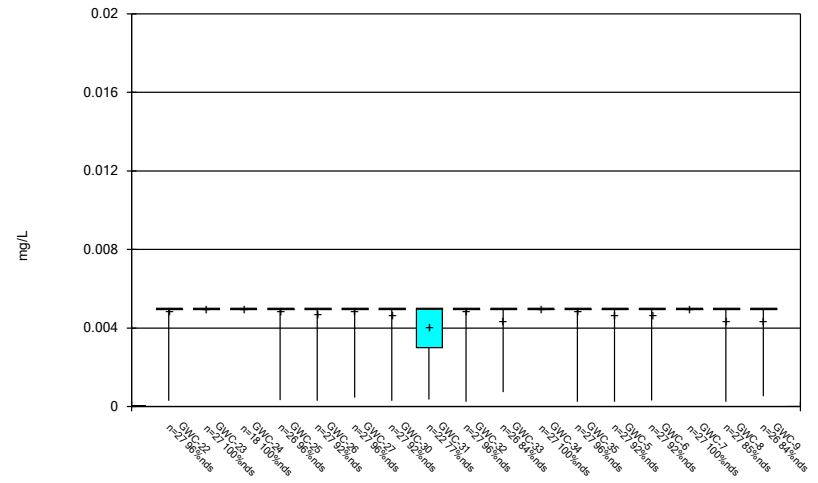
Constituent: pH, Field Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



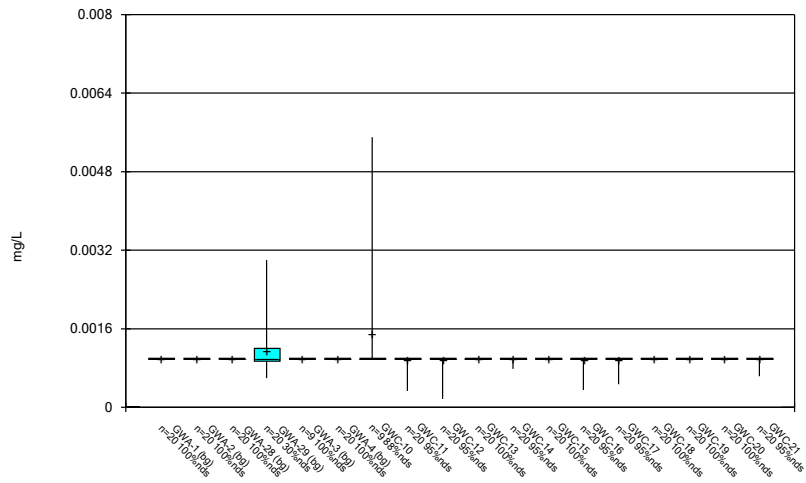
Constituent: Selenium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



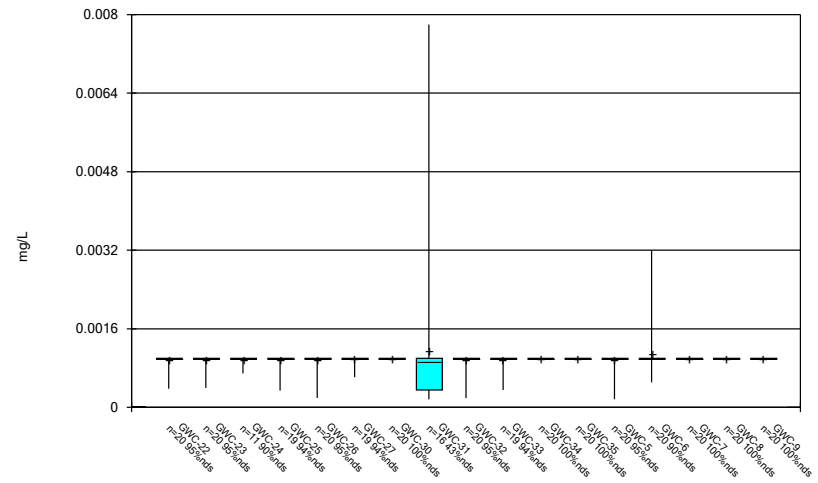
Constituent: Selenium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



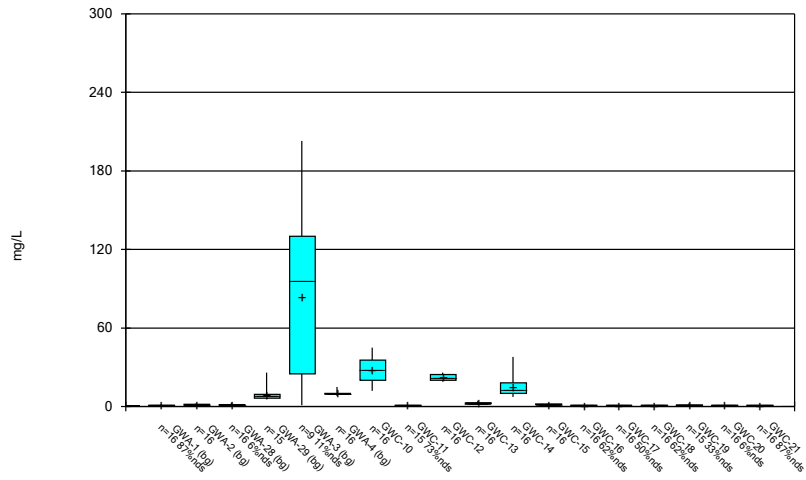
Constituent: Silver Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



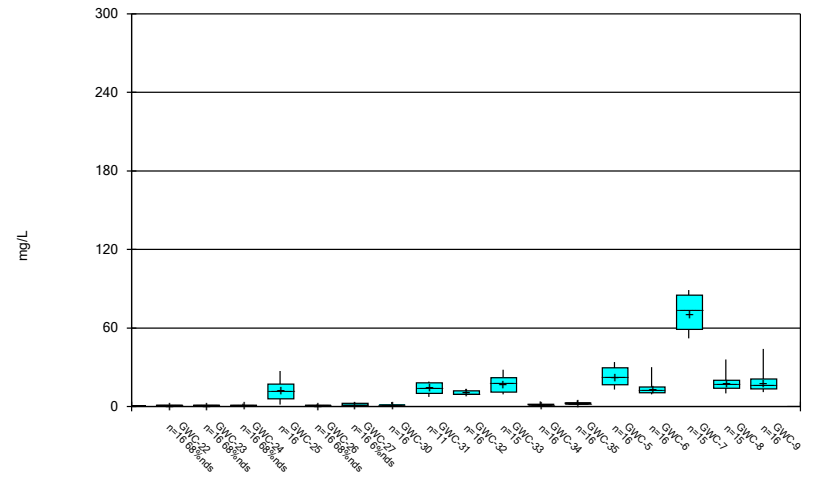
Constituent: Silver Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



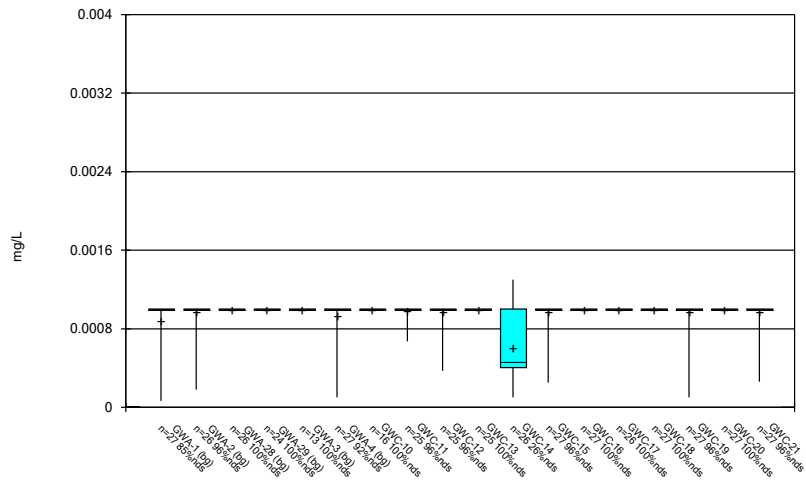
Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



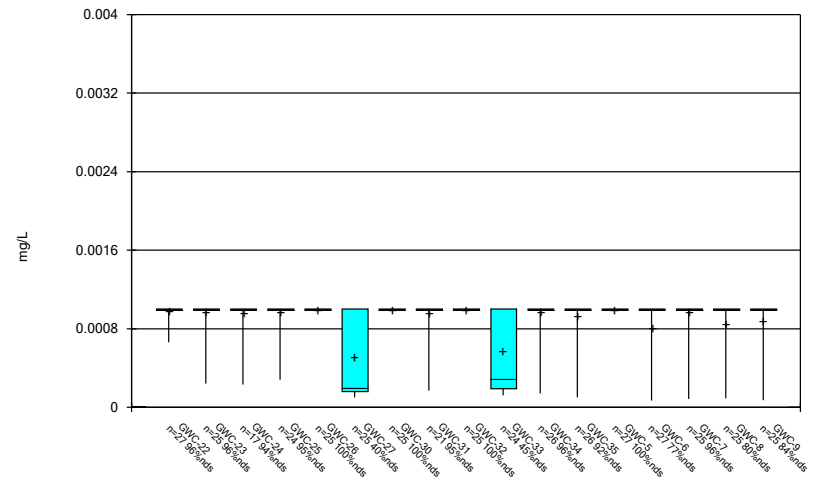
Constituent: Sulfate as SO4 Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



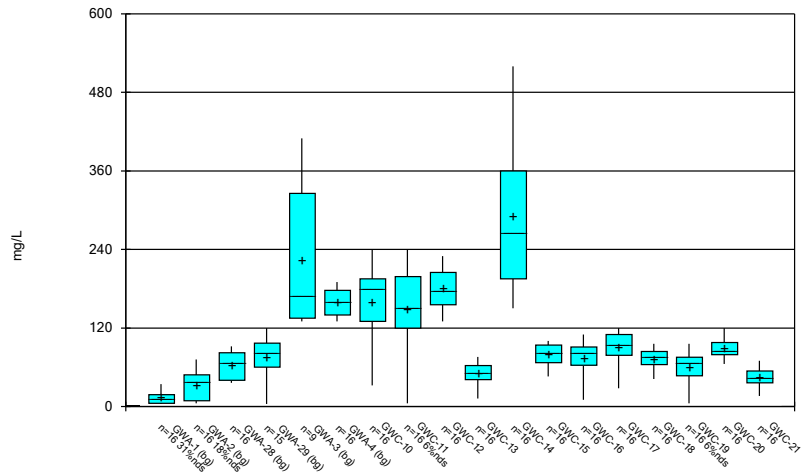
Constituent: Thallium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



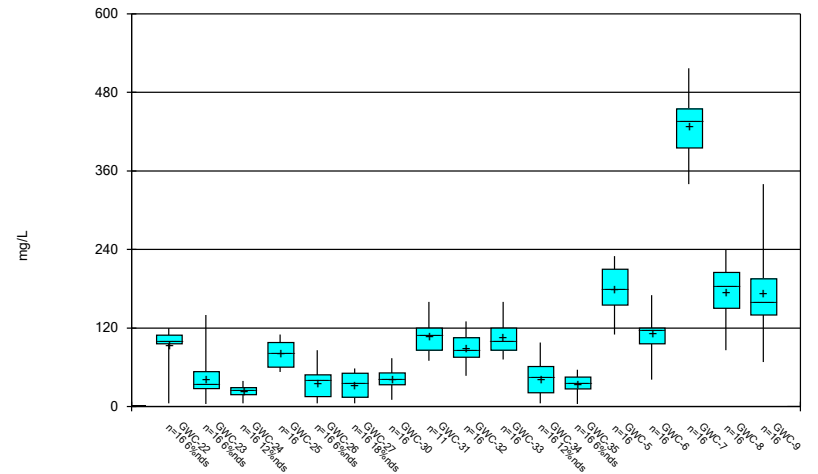
Constituent: Thallium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



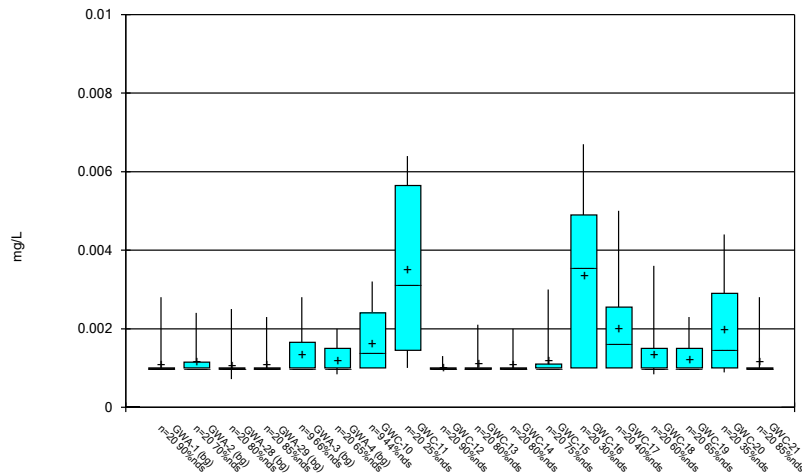
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



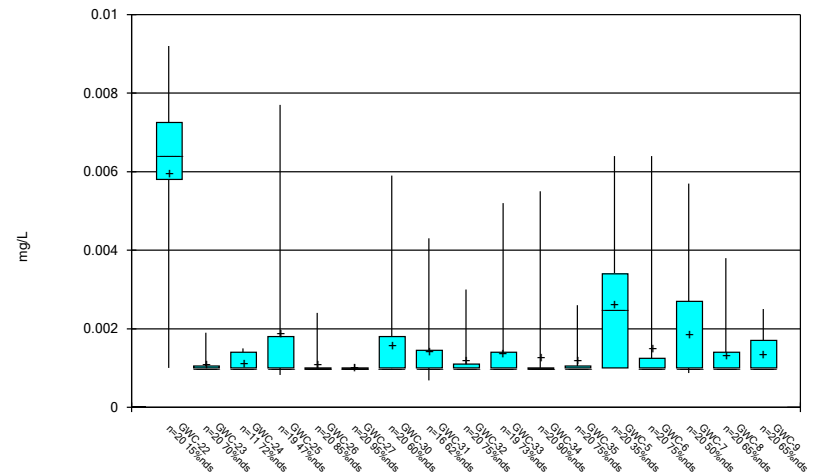
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



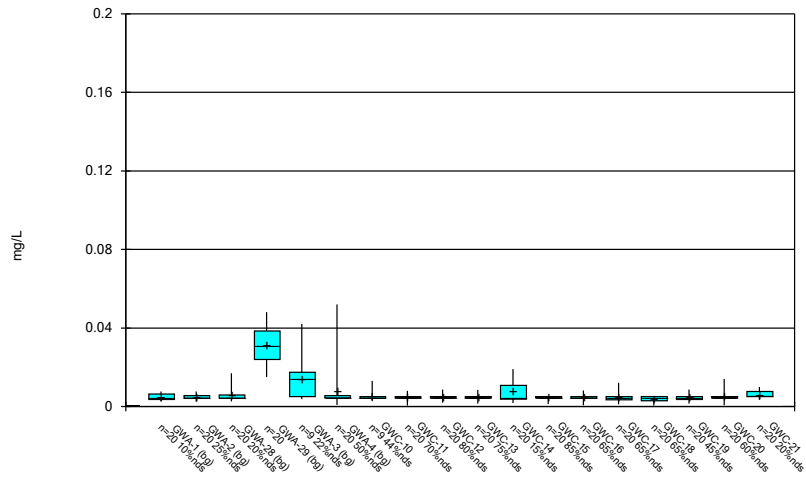
Constituent: Vanadium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



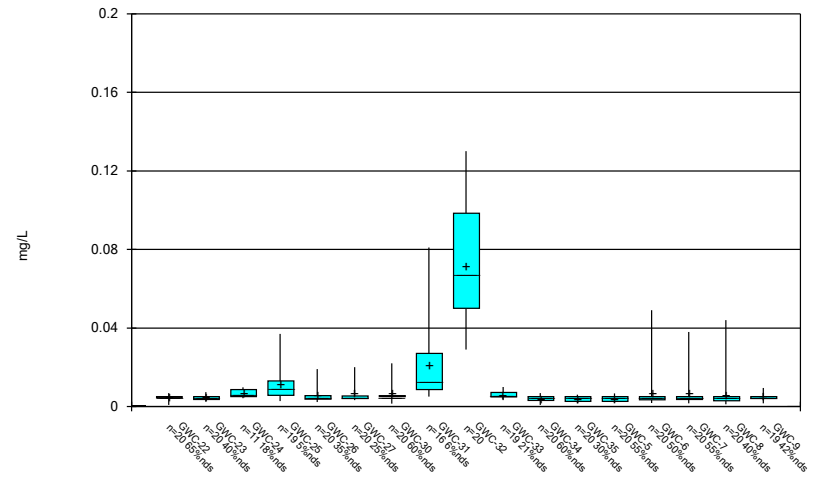
Constituent: Vanadium Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/20/2020 1:30 PM
 Plant Wansley Client: Southern Company Data: Wansley Landfill

FIGURE C.

FIGURE D.

State Parameters - Intrawell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-14	0.117	n/a	3/17/2020	0.23	Yes	19	n/a	n/a	5.263	n/a	n/a	n/a	0.0006785	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-18	0.0383	n/a	3/17/2020	0.039	Yes	23	0.03275	0.002744	0	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-19	0.1138	n/a	3/18/2020	0.13	Yes	23	0.06187	0.02567	4.348	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-21	0.0348	n/a	3/18/2020	0.056	Yes	23	0.0203	0.007161	0	None	No	No	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.0025	Yes	5	n/a	n/a	80	n/a	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.002	Yes	9	n/a	n/a	100	n/a	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-4	0.014	n/a	3/10/2020	0.052	Yes	16	n/a	n/a	56.25	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-14	0.01302	n/a	3/17/2020	0.014	Yes	16	0.0662	0.02159	18.75	Kaplan-Meiersqrt(x)			0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-30	0.009	n/a	3/11/2020	0.022	Yes	16	n/a	n/a	62.5	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-31	0.03796	n/a	3/17/2020	0.044	Yes	12	0.01699	0.008457	8.333	None	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-32	0.1273	n/a	3/18/2020	0.13	Yes	16	0.06675	0.02729	0	None	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-7	0.01	n/a	3/12/2020	0.038	Yes	16	n/a	n/a	56.25	n/a	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8	0.007153	n/a	3/12/2020	0.044	Yes	16	0.002775	0.001974	43.75	Kaplan-Meier	No	No	0.0001135	Param Intra 1 of 3
Zinc (mg/L)	GWC-9	0.008549	n/a	3/16/2020	0.0094	Yes	15	0.003756	0.002099	46.67	Kaplan-Meier	No	No	0.0001135	Param Intra 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.0021	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-28	0.0021	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-29	0.002	n/a	3/10/2020	0.002ND	No	21	n/a	n/a	n/a	85.71	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.002ND	No	9	n/a	n/a	n/a	77.78	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-10	0.002	n/a	3/17/2020	0.002ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.0023	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-18	0.0022	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-22	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-23	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-24	0.002	n/a	3/12/2020	0.002ND	No	14	n/a	n/a	n/a	64.29	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-25	0.002	n/a	3/12/2020	0.002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-26	0.002	n/a	3/13/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-27	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-30	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-31	0.0027	n/a	3/17/2020	0.002ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-32	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-33	0.002	n/a	3/12/2020	0.002ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.0024	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-1	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-2	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-28	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-29	0.001	n/a	3/10/2020	0.001ND	No	21	n/a	n/a	n/a	90.48	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.001ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-4	0.0011	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/16/2020	0.0009	No	23	n/a	n/a	n/a	52.17	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.00061	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-13	0.0012	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14	0.001	n/a	3/17/2020	0.00031	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-16	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-19	0.0013	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00058	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-24	0.001	n/a	3/12/2020	0.001ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.001ND	No	22	n/a	n/a	n/a	90.91	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-31	0.0012	n/a	3/17/2020	0.001ND	No	18	n/a	n/a	n/a	83.33	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-32	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-33	0.0013	n/a	3/12/2020	0.001ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-34	0.0012	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-35	0.001	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.0014	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.001	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7	0.0012	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-8	0.0013	n/a	3/12/2020	0.00049	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0013	n/a	3/16/2020	0.00065	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-1	0.01292	n/a	3/10/2020	0.01	No	23	0.01025	0.001319	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-2	0.02156	n/a	3/10/2020	0.01	No	23	0.01435	0.003559	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-28	0.005	n/a	3/10/2020	0.0018	No	23	n/a	n/a	n/a	39.13	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWA-29	0.004768	n/a	3/10/2020	0.005ND	No	21	-6.46	0.5402	9.524	None	None	ln(x)	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWA-3	0.1	n/a	3/10/2020	0.079	No	9	n/a	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWA-4	0.1824	n/a	3/10/2020	0.14	No	23	0.1186	0.03152	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-10	0.0357	n/a	3/17/2020	0.025	No	12	0.01973	0.006441	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-11	0.4492	n/a	3/16/2020	0.066	No	23	0.286	0.08062	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-12	0.02403	n/a	3/18/2020	0.023	No	23	0.01566	0.004138	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-13	0.004459	n/a	3/12/2020	0.0026	No	23	0.003342	0.0005516	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-14	0.117	n/a	3/17/2020	0.23	Yes	19	n/a	n/a	5.263	n/a	n/a	n/a	0.0006785	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-15	0.01334	n/a	3/16/2020	0.012	No	23	0.009012	0.002137	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-16	0.019	n/a	3/17/2020	0.019	No	23	n/a	n/a	0	n/a	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-17	0.01934	n/a	3/17/2020	0.017	No	23	0.01612	0.001592	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-18	0.0383	n/a	3/17/2020	0.039	Yes	23	0.03275	0.002744	0	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-19	0.1138	n/a	3/18/2020	0.13	Yes	23	0.06187	0.02567	4.348	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-20	0.03851	n/a	3/18/2020	0.031	No	23	0.03396	0.002249	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-21	0.0348	n/a	3/18/2020	0.056	Yes	23	0.0203	0.007161	0	None	No	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-22	0.02915	n/a	3/18/2020	0.025	No	23	0.02545	0.001829	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-23	0.01113	n/a	3/18/2020	0.0055	No	23	0.006647	0.002215	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-24	0.03462	n/a	3/12/2020	0.0082	No	14	0.01771	0.0072	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-25	0.05225	n/a	3/12/2020	0.03	No	22	0.03101	0.0104	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-26	0.04031	n/a	3/13/2020	0.035	No	23	0.001086	0.0002664	0	None	x^2	0.0001135	Param Intra 1 of 3	
Barium (mg/L)	GWC-27	0.01993	n/a	3/12/2020	0.008	No	23	0.01185	0.003989	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-30	0.009529	n/a	3/11/2020	0.0081	No	23	0.08407	0.006692	0	None	sqrt(x)	0.0001135	Param Intra 1 of 3	
Barium (mg/L)	GWC-31	0.008406	n/a	3/17/2020	0.002	No	18	0.003913	0.002089	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-32	0.005408	n/a	3/18/2020	0.005ND	No	23	0.002652	0.001361	13.04	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-33	0.01448	n/a	3/12/2020	0.0067	No	22	0.008309	0.003018	4.545	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-34	0.01295	n/a	3/11/2020	0.012	No	22	0.01108	0.000916	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-35	0.02169	n/a	3/11/2020	0.02	No	23	0.01981	0.0009285	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-5	0.0325	n/a	3/16/2020	0.023	No	23	0.02373	0.004334	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.06792	n/a	3/16/2020	0.045	No	23	0.05446	0.006649	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-7	0.1475	n/a	3/12/2020	0.072	No	23	0.09785	0.02452	0	None	None	No	0.0001135	Param Intra 1 of 3
Barium (mg/L)	GWC-8	0.1142	n/a	3/12/2020	0.031	No	23	0.2509	0.04301	0	None	sqrt(x)	0.0001135	Param Intra 1 of 3	
Barium (mg/L)	GWC-9	0.2145	n/a	3/16/2020	0.079	No	23	0.1338	0.03988	0	None	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.00019	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-2	0.0025	n/a	3/10/2020	0.0025ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-28	0.0025	n/a	3/10/2020	0.00051	No	23	n/a	n/a	43.48	n/a	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWA-29	0.002857	n/a	3/10/2020	0.002	No	21	0.002025	0.0004034	9.524	None	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWA-3	0.0025	n/a	3/10/2020	0.0025ND	No	9	n/a	n/a	100	n/a	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.00039	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.00029	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14	0.0025	n/a	3/17/2020	0.00059	No	23	n/a	n/a	65.22	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-16	0.0025	n/a	3/17/2020	0.0025ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-17	0.0025	n/a	3/17/2020	0.0025ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-18	0.0025	n/a	3/17/2020	0.0025ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-19	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-21	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00038	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-23	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-24	0.001	n/a	3/12/2020	0.0002	No	14	n/a	n/a	78.57	n/a	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-25	0.0025	n/a	3/12/2020	0.0025ND	No	22	n/a	n/a	100	n/a	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.00019	No	23	n/a	n/a	100	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-27	0.007589	n/a	3/12/2020	0.00038	No	23	0.003666	0.001938	13.04	None	None	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-30	0.0025	n/a	3/11/2020	0.0025ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-31	0.003	n/a	3/17/2020	0.0004	No	18	n/a	n/a	33.33	n/a	n/a	n/a	0.0007943	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-32	0.001638	n/a	3/18/2020	0.0014	No	23	0.00091120	0.0003589	30.43	Kaplan-Meier	No	No	0.0001135	Param Intra 1 of 3
Beryllium (mg/L)	GWC-33	0.0025	n/a	3/12/2020	0.00049	No	22	n/a	n/a	40.91	n/a	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-34	0.0025	n/a	3/11/2020	0.0025ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-35	0.0025	n/a	3/11/2020	0.0025ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-6	0.0025	n/a	3/16/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00061	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.001	n/a	3/16/2020	0.00041	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-29	0.0025	n/a	3/10/2020	0.0025ND	No	21	n/a	n/a	n/a	95.24	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-3	0.0025	n/a	3/10/2020	0.0025ND	No	9	n/a	n/a	n/a	66.67	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-11	0.0022	n/a	3/16/2020	0.00033	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14	0.0025	n/a	3/17/2020	0.00036	No	23	n/a	n/a	n/a	73.91	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-21	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-22	0.0025	n/a	3/18/2020	0.00062	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-24	0.0025	n/a	3/12/2020	0.0025ND	No	14	n/a	n/a	n/a	85.71	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-25	0.0025	n/a	3/12/2020	0.0025ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00032	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-1	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-2	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-28	0.0044	n/a	3/10/2020	0.002ND	No	22	n/a	n/a	n/a	90.91	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-29	0.002	n/a	3/10/2020	0.002ND	No	20	n/a	n/a	n/a	90	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.002ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-4	0.002	n/a	3/10/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.0029	n/a	3/17/2020	0.002ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-11	0.01	n/a	3/16/2020	0.0019	No	23	n/a	n/a	n/a	17.39	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-14	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-15	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-16	0.005	n/a	3/17/2020	0.0024	No	23	n/a	n/a	n/a	8.696	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-17	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-18	0.002	n/a	3/17/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-19	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-20	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-21	0.002	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-22	0.0027	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	60.87	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-23	0.00226	n/a	3/18/2020	0.002ND	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-24	0.002	n/a	3/12/2020	0.002ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-25	0.0043	n/a	3/12/2020	0.002ND	No	20	n/a	n/a	n/a	75	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-26	0.002	n/a	3/13/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-27	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-30	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-31	0.008183	n/a	3/17/2020	0.002ND	No	18	-5.938	0.5266	16.67	Kaplan-Meier	ln(x)	0.0001135	Param Intra 1 of 3	
Chromium (mg/L)	GWC-32	0.002	n/a	3/18/2020	0.002ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-33	0.0034	n/a	3/12/2020	0.0018	No	22	n/a	n/a	n/a	77.27	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-34	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-35	0.002	n/a	3/11/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-5	0.0025	n/a	3/16/2020	0.0017	No	22	n/a	n/a	n/a	86.36	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.002	n/a	3/16/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-7	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8	0.002	n/a	3/12/2020	0.002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-9	0.0029	n/a	3/16/2020	0.0015	No	23	n/a	n/a	n/a	47.83	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.00017	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-2	0.0025	n/a	3/10/2020	0.00017	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-29	0.0025	n/a	3/10/2020	0.0025ND	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3	0.0028	n/a	3/10/2020	0.00081	No	9	n/a	n/a	n/a	66.67	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-4	0.01261	n/a	3/10/2020	0.0035	No	23	0.07262	0.01959	8.696	None	sqrt(x)	0.0001135	Param Intra 1 of 3	
Cobalt (mg/L)	GWC-10	0.0143	n/a	3/17/2020	0.0038	No	12	0.006177	0.003274	0	None	No	0.0001135	Param Intra 1 of 3	
Cobalt (mg/L)	GWC-11	0.01525	n/a	3/16/2020	0.0014	No	23	0.008102	0.00353	0	None	No	0.0001135	Param Intra 1 of 3	

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-12	0.0025	n/a	3/18/2020	0.0012	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-15	0.0025	n/a	3/16/2020	0.0025ND	No	23	n/a	n/a	n/a	65.22	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-16	0.0025	n/a	3/17/2020	0.0025ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-19	0.003104	n/a	3/18/2020	0.0016	No	22	0.001198	0.000933	40.91	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-20	0.0025	n/a	3/18/2020	0.0025ND	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-21	0.004852	n/a	3/18/2020	0.0006	No	23	0.001925	0.001446	30.43	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-22	0.0005	n/a	3/18/2020	0.00027	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-23	0.0027	n/a	3/18/2020	0.00022	No	21	n/a	n/a	n/a	66.67	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-24	0.01526	n/a	3/12/2020	0.002	No	14	-6.342	0.9191	14.29	None	ln(x)	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-25	0.04937	n/a	3/12/2020	0.0066	No	22	0.1123	0.05377	9.091	None	sqrt(x)	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-26	0.0025	n/a	3/13/2020	0.00015	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-27	0.0046	n/a	3/12/2020	0.0009	No	23	n/a	n/a	n/a	17.39	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-31	0.0015	n/a	3/17/2020	0.00017	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-32	0.0025	n/a	3/18/2020	0.001	No	23	n/a	n/a	n/a	69.57	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-33	0.01175	n/a	3/12/2020	0.0013	No	22	0.05328	0.02697	18.18	Kaplan-Meier	sqrt(x)	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-34	0.0025	n/a	3/11/2020	0.0025ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-35	0.0025	n/a	3/11/2020	0.00022	No	23	n/a	n/a	n/a	60.87	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-5	0.04515	n/a	3/16/2020	0.0049	No	23	0.1233	0.04404	0	None	sqrt(x)	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-6	0.037	n/a	3/16/2020	0.012	No	23	n/a	n/a	n/a	0	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-7	0.02666	n/a	3/12/2020	0.00066	No	23	0.1738	0.0617	17.39	Kaplan-Meier	x^(1/3)	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-8	0.07133	n/a	3/12/2020	0.0047	No	21	0.03588	0.01719	0	None	No	n/a	0.0001135	Param Intra 1 of 3
Cobalt (mg/L)	GWC-9	0.1558	n/a	3/16/2020	0.026	No	22	0.2353	0.07802	4.545	None	sqrt(x)	n/a	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-2	0.002	n/a	3/10/2020	0.002ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-28	0.002	n/a	3/10/2020	0.002ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-29	0.01582	n/a	3/10/2020	0.004	No	16	0.007974	0.003538	18.75	Kaplan-Meier	No	n/a	0.0001135	Param Intra 1 of 3
Copper (mg/L)	GWA-3	0.002	n/a	3/10/2020	0.0025	Yes	5	n/a	n/a	80	n/a	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-10	0.002	n/a	3/17/2020	0.002ND	No	5	n/a	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-11	0.002	n/a	3/16/2020	0.002ND	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-12	0.002	n/a	3/18/2020	0.002ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-13	0.0021	n/a	3/12/2020	0.002ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14	0.002	n/a	3/17/2020	0.002ND	No	15	n/a	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15	0.002	n/a	3/16/2020	0.002ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-16	0.002	n/a	3/17/2020	0.002ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-17	0.002	n/a	3/17/2020	0.002ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-20	0.0025	n/a	3/18/2020	0.002ND	No	15	n/a	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-22	0.002	n/a	3/18/2020	0.002ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-23	0.002	n/a	3/18/2020	0.002ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-24	0.0028	n/a	3/12/2020	0.0012	No	7	n/a	n/a	n/a	71.43	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-25	0.0034	n/a	3/12/2020	0.0022	No	15	n/a	n/a	n/a	73.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-26	0.0027	n/a	3/13/2020	0.00078	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-27	0.002	n/a	3/12/2020	0.002ND	No	15	n/a	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-31	0.0048	n/a	3/17/2020	0.0014	No	12	n/a	n/a	n/a	58.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-33	0.002	n/a	3/12/2020	0.002ND	No	15	n/a	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-34	0.002	n/a	3/11/2020	0.002ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-35	0.002	n/a	3/11/2020	0.00072	No	16	n/a	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-5	0.002	n/a	3/16/2020	0.002ND	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-6	0.0031	n/a	3/16/2020	0.002ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8	0.0035	n/a	3/12/2020	0.0014	No	16	n/a	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.0026	n/a	3/16/2020	0.00077	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-2	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-29	0.001	n/a	3/10/2020	0.001ND	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.002	Yes	9	n/a	n/a	100	n/a	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-10	0.0013	n/a	3/17/2020	0.00015	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.00037	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.0002	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-15	0.001	n/a	3/16/2020	0.00014	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-19	0.0013	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00067	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.00022	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-24	0.0013	n/a	3/12/2020	0.00013	No	14	n/a	n/a	n/a	100	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.00018	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.00013	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-31	0.0013	n/a	3/17/2020	0.00051	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-33	0.001	n/a	3/12/2020	0.00015	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-34	0.001	n/a	3/11/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-5	0.001	n/a	3/16/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00028	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-9	0.001	n/a	3/16/2020	0.00025	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-1	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-2	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-28	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-29	0.0002	n/a	3/10/2020	0.0002ND	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-3	0.0002	n/a	3/10/2020	0.0002ND	No	9	n/a	n/a	n/a	88.89	n/a	n/a	0.004675	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-4	0.0002	n/a	3/10/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-10	0.0002	n/a	3/17/2020	0.0002ND	No	12	n/a	n/a	n/a	83.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-11	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-12	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-13	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-14	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	78.26	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-16	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-17	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-18	0.0002	n/a	3/17/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-19	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-20	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-21	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-22	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-23	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-24	0.0002	n/a	3/12/2020	0.0002ND	No	14	n/a	n/a	n/a	92.86	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-25	0.0002	n/a	3/12/2020	0.0002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-26	0.0002	n/a	3/13/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-27	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-30	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-31	0.0002	n/a	3/17/2020	0.0002ND	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-32	0.0002	n/a	3/18/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-33	0.0002	n/a	3/12/2020	0.0002ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-34	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-35	0.0002	n/a	3/11/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-5	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-6	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-7	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-8	0.0002	n/a	3/12/2020	0.0002ND	No	23	n/a	n/a	n/a	86.96	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-9	0.0002	n/a	3/16/2020	0.0002ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-1	0.0025	n/a	3/10/2020	0.00067	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-2	0.0028	n/a	3/10/2020	0.0012	No	16	n/a	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWA-28	0.0025	n/a	3/10/2020	0.00069	No	16	n/a	n/a		93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-29	0.005537	n/a	3/10/2020	0.0012	No	16	0.003044	0.001124		18.75	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWA-3	0.0056	n/a	3/10/2020	0.0019	No	5	n/a	n/a		60	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-4	0.007	n/a	3/10/2020	0.0019	No	15	n/a	n/a		80	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-10	0.01272	n/a	3/17/2020	0.0013	No	5	0.00348	0.001413		0	None	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.0004	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-13	0.001	n/a	3/12/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15	0.001	n/a	3/16/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-16	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-18	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-19	0.0025	n/a	3/18/2020	0.0011	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-20	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-21	0.0025	n/a	3/18/2020	0.0004	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00042	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.00079	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-24	0.004597	n/a	3/12/2020	0.0025	No	7	0.0025	0.0005657		14.29	None	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-25	0.01984	n/a	3/12/2020	0.0054	No	15	0.07554	0.0286		33.33	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-26	0.0025	n/a	3/13/2020	0.00097	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	16	n/a	n/a		100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-31	0.01227	n/a	3/17/2020	0.0029	No	12	-5.856	0.5866		25	Kaplan-Meier	ln(x)	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-32	0.0025	n/a	3/18/2020	0.0011	No	16	n/a	n/a		87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-33	0.0025	n/a	3/12/2020	0.0012	No	15	n/a	n/a		93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-34	0.0025	n/a	3/11/2020	0.0005	No	15	n/a	n/a		93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-35	0.004883	n/a	3/11/2020	0.001	No	16	0.002608	0.001025		25	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-5	0.009764	n/a	3/16/2020	0.0049	No	16	0.00003998	0.000249525			Kaplan-Meier	x^2	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.00721	n/a	3/16/2020	0.0043	No	16	0.004412	0.001261		6.25	None	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-7	0.02327	n/a	3/12/2020	0.0074	No	16	0.009385	0.006258		25	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Nickel (mg/L)	GWC-8	0.011	n/a	3/12/2020	0.0019	No	16	n/a	n/a		37.5	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-9	0.01884	n/a	3/16/2020	0.0091	No	14	0.01016	0.003691		7.143	None	No	0.0001135	Param Intra 1 of 3
Selenium (mg/L)	GWA-1	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-28	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a		91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-29	0.005	n/a	3/10/2020	0.005ND	No	21	n/a	n/a		85.71	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWA-4	0.005	n/a	3/10/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-11	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a		82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-12	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-13	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-14	0.0071	n/a	3/17/2020	0.0023	No	24	n/a	n/a		75	n/a	n/a	0.0003562	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-15	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-16	0.005	n/a	3/17/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-18	0.005	n/a	3/17/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-21	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-22	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-25	0.005	n/a	3/12/2020	0.005ND	No	22	n/a	n/a		95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-26	0.005	n/a	3/13/2020	0.005ND	No	23	n/a	n/a		91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-27	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-30	0.005	n/a	3/11/2020	0.005ND	No	23	n/a	n/a		91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-31	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a		72.22	n/a	n/a	0.0007943	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-32	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-33	0.005	n/a	3/12/2020	0.005ND	No	22	n/a	n/a		81.82	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-35	0.005	n/a	3/11/2020	0.005ND	No	23	n/a	n/a		95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a		91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-6	0.005	n/a	3/16/2020	0.005ND	No	23	n/a	n/a		91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8	0.005	n/a	3/12/2020	0.005ND	No	23	n/a	n/a		82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-9	0.005	n/a	3/16/2020	0.005ND	No	22	n/a	n/a	n/a	81.82	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-29	0.002329	n/a	3/10/2020	0.00099	No	16	0.03226	0.007215	n/a	37.5	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra 1 of 3
Silver (mg/L)	GWC-10	0.001	n/a	3/17/2020	0.001ND	No	5	n/a	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-14	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-16	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-17	0.001	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-24	0.001	n/a	3/12/2020	0.001ND	No	7	n/a	n/a	n/a	100	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.001ND	No	15	n/a	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	15	n/a	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-31	0.001	n/a	3/17/2020	0.00018	No	11	n/a	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-32	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-33	0.001	n/a	3/12/2020	0.001ND	No	15	n/a	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-5	0.001	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-6	0.001	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-1	0.0005	n/a	3/10/2020	0.00029	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-2	0.001	n/a	3/10/2020	0.00018	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-4	0.001	n/a	3/10/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-11	0.001	n/a	3/16/2020	0.00067	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.00037	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-14	0.0009163	n/a	3/17/2020	0.00055	No	22	0.00041180	0.0002469	n/a	31.82	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Thallium (mg/L)	GWC-15	0.001	n/a	3/16/2020	0.00025	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-19	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-21	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-22	0.001	n/a	3/18/2020	0.00066	No	23	n/a	n/a	n/a	100	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-23	0.001	n/a	3/18/2020	0.00024	No	21	n/a	n/a	n/a	100	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-24	0.001	n/a	3/12/2020	0.001ND	No	13	n/a	n/a	n/a	100	n/a	n/a	0.001886	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-25	0.001	n/a	3/12/2020	0.001ND	No	20	n/a	n/a	n/a	100	n/a	n/a	0.0005627	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-27	0.0005	n/a	3/12/2020	0.0002	No	21	n/a	n/a	n/a	47.62	n/a	n/a	0.000511	NP Intra (normality) 1 of 3
Thallium (mg/L)	GWC-31	0.001	n/a	3/17/2020	0.00017	No	17	n/a	n/a	n/a	100	n/a	n/a	0.0009102	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-33	0.001	n/a	3/12/2020	0.00035	No	20	n/a	n/a	n/a	45	n/a	n/a	0.0005627	NP Intra (normality) 1 of 3
Thallium (mg/L)	GWC-34	0.001	n/a	3/11/2020	0.001ND	No	22	n/a	n/a	n/a	100	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-35	0.001	n/a	3/11/2020	0.001ND	No	22	n/a	n/a	n/a	95.45	n/a	n/a	0.0004594	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	3/16/2020	0.00015	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.0004078	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-7	0.001	n/a	3/12/2020	0.001ND	No	21	n/a	n/a	n/a	95.24	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8	0.001	n/a	3/12/2020	0.00064	No	21	n/a	n/a	n/a	80.95	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-9	0.001	n/a	3/16/2020	0.00044	No	21	n/a	n/a	n/a	85.71	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-1	0.001	n/a	3/10/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-2	0.0024	n/a	3/10/2020	0.001ND	No	16	n/a	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-28	0.001	n/a	3/10/2020	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-29	0.0014	n/a	3/10/2020	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-3	0.001	n/a	3/10/2020	0.001ND	No	5	n/a	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-4	0.002	n/a	3/10/2020	0.001ND	No	16	n/a	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-10	0.008189	n/a	3/17/2020	0.001ND	No	5	0.002	0.0009466	n/a	40	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3
Vanadium (mg/L)	GWC-11	0.0064	n/a	3/16/2020	0.0027	No	16	n/a	n/a	n/a	31.25	n/a	n/a	0.001026	NP Intra (normality) 1 of 3
Vanadium (mg/L)	GWC-12	0.001	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-13	0.0015	n/a	3/12/2020	0.001ND	No	16	n/a	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14	0.002	n/a	3/17/2020	0.001ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-15	0.003	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-16	0.006174	n/a	3/17/2020	0.0044	No	16	0.003868	0.001039	n/a	37.5	Kaplan-Meier	No	0.0001135	Param Intra 1 of 3

State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWC-17	0.004392	n/a	3/17/2020	0.0024	No	16	0.04443	0.009845	50	Kaplan-Meier	sqrt(x)	0.0001135	Param Intra	1 of 3
Vanadium (mg/L)	GWC-18	0.0036	n/a	3/17/2020	0.0015	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-19	0.0021	n/a	3/18/2020	0.0011	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-20	0.005	n/a	3/18/2020	0.0016	No	16	n/a	n/a	43.75	n/a	n/a	0.001026	NP Intra (normality)	1 of 3
Vanadium (mg/L)	GWC-21	0.0028	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-22	0.008541	n/a	3/18/2020	0.0069	No	16	0.006429	0.0009517	18.75	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Vanadium (mg/L)	GWC-23	0.0016	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-24	0.0015	n/a	3/12/2020	0.001ND	No	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-25	0.0077	n/a	3/12/2020	0.0011	No	15	n/a	n/a	60	n/a	n/a	0.001313	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-26	0.001	n/a	3/13/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-27	0.001	n/a	3/12/2020	0.001ND	No	16	n/a	n/a	100	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-30	0.0059	n/a	3/11/2020	0.00099	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-31	0.0043	n/a	3/17/2020	0.001ND	No	12	n/a	n/a	75	n/a	n/a	0.002173	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-32	0.003	n/a	3/18/2020	0.001ND	No	16	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-33	0.0052	n/a	3/12/2020	0.001ND	No	15	n/a	n/a	86.67	n/a	n/a	0.001313	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-34	0.0055	n/a	3/11/2020	0.001ND	No	16	n/a	n/a	93.75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-35	0.0026	n/a	3/11/2020	0.001ND	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-5	0.006406	n/a	3/16/2020	0.0028	No	16	0.003438	0.001338	43.75	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Vanadium (mg/L)	GWC-6	0.0064	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-7	0.0057	n/a	3/12/2020	0.0019	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-8	0.0038	n/a	3/12/2020	0.001ND	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Vanadium (mg/L)	GWC-9	0.0025	n/a	3/16/2020	0.001ND	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWA-1	0.02139	n/a	3/10/2020	0.0036	No	16	-5.193	0.6076	12.5	None	ln(x)	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWA-2	0.007539	n/a	3/10/2020	0.005ND	No	16	0.004549	0.001348	25	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWA-28	0.02	n/a	3/10/2020	0.017	No	16	n/a	n/a	25	n/a	n/a	0.001026	NP Intra (normality)	1 of 3
Zinc (mg/L)	GWA-29	0.05409	n/a	3/10/2020	0.034	No	16	0.03144	0.01021	0	None	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWA-3	0.1074	n/a	3/10/2020	0.015	No	5	0.01588	0.014	40	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWA-4	0.014	n/a	3/10/2020	0.052	Yes 16	n/a	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-10	0.02	n/a	3/17/2020	0.0044	No	5	n/a	n/a	80	n/a	n/a	0.01896	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-11	0.008	n/a	3/16/2020	0.005ND	No	16	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-12	0.0087	n/a	3/18/2020	0.005ND	No	16	n/a	n/a	81.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-13	0.005	n/a	3/12/2020	0.005ND	No	16	n/a	n/a	75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-14	0.01302	n/a	3/17/2020	0.014	Yes 16	0.0662	0.02159	0.02159	18.75	Kaplan-Meiers	sqrt(x)	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-15	0.005	n/a	3/16/2020	0.005ND	No	16	n/a	n/a	87.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-16	0.0081	n/a	3/17/2020	0.005ND	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-17	0.005	n/a	3/17/2020	0.005ND	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-18	0.005	n/a	3/17/2020	0.005ND	No	16	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-19	0.02	n/a	3/18/2020	0.0078	No	16	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-20	0.013	n/a	3/18/2020	0.005ND	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-21	0.01217	n/a	3/18/2020	0.0052	No	16	0.1885	0.01871	25	Kaplan-Meier	x^(1/3)	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-22	0.0068	n/a	3/18/2020	0.005ND	No	16	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-23	0.007288	n/a	3/18/2020	0.005ND	No	16	0.00404	0.001464	31.25	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-24	0.01585	n/a	3/12/2020	0.008	No	7	0.00746	0.002264	28.57	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-25	0.02893	n/a	3/12/2020	0.0089	No	15	0.01086	0.007912	6.667	None	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-26	0.019	n/a	3/13/2020	0.0087	No	16	n/a	n/a	37.5	n/a	n/a	0.001026	NP Intra (normality)	1 of 3
Zinc (mg/L)	GWC-27	0.02	n/a	3/12/2020	0.0051	No	16	n/a	n/a	25	n/a	n/a	0.001026	NP Intra (normality)	1 of 3
Zinc (mg/L)	GWC-30	0.009	n/a	3/11/2020	0.022	Yes 16	n/a	n/a	n/a	62.5	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-31	0.03796	n/a	3/17/2020	0.044	Yes 12	0.01699	0.008457	0.008457	8.333	None	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-32	0.1273	n/a	3/18/2020	0.13	Yes 16	0.06675	0.02729	0	0	None	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-33	0.01087	n/a	3/12/2020	0.0061	No	15	-5.239	0.3143	26.67	Kaplan-Meier	ln(x)	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-34	0.005	n/a	3/11/2020	0.0032	No	16	n/a	n/a	68.75	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-35	0.006162	n/a	3/11/2020	0.0034	No	16	0.003142	0.001361	25	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-5	0.005	n/a	3/16/2020	0.0033	No	16	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-6	0.005	n/a	3/16/2020	0.0032	No	16	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3
Zinc (mg/L)	GWC-7	0.01	n/a	3/12/2020	0.038	Yes 16	n/a	n/a	n/a	56.25	n/a	n/a	0.001026	NP Intra (NDs)	1 of 3

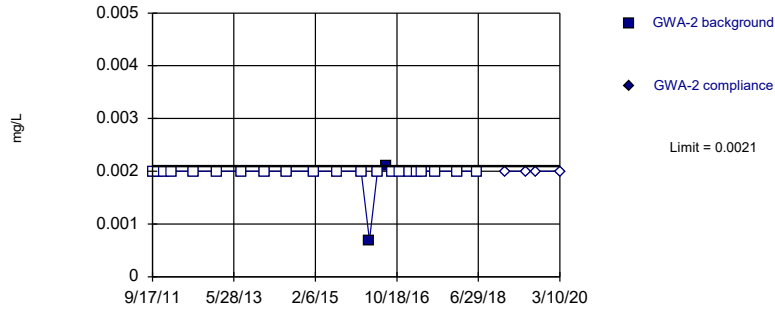
State Parameters - Intrawell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWC-8	0.007153	n/a	3/12/2020	0.044	Yes	16	0.002775	0.001974	43.75	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3
Zinc (mg/L)	GWC-9	0.008549	n/a	3/16/2020	0.0094	Yes	15	0.003756	0.002099	46.67	Kaplan-Meier	No	0.0001135	Param Intra	1 of 3

Within Limit

Prediction Limit
Intrawell Non-parametric

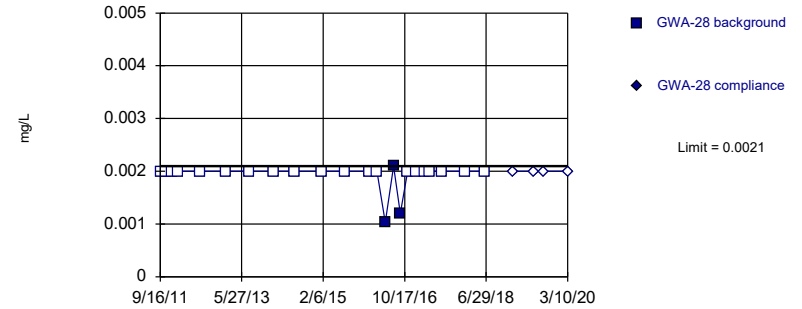


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

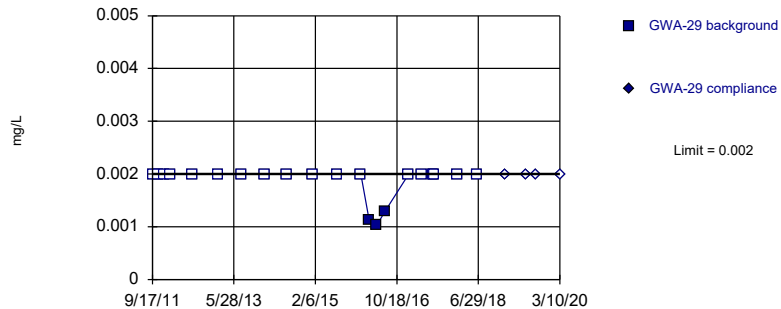


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

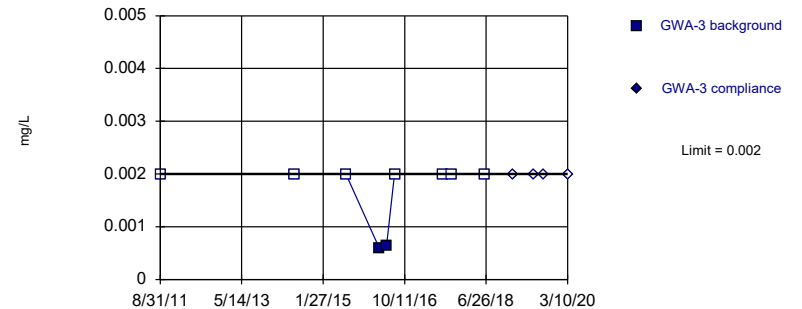


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 9 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.002	
10/27/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/23/2012	<0.002	
1/23/2013	<0.002	
7/24/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	<0.002	
1/22/2015	<0.002	
7/22/2015	<0.002	
1/20/2016	<0.002	
3/23/2016	0.00069 (J)	
5/24/2016	<0.002	
7/26/2016	0.0021 (J)	
9/16/2016	<0.002	
11/10/2016	<0.002	
1/19/2017	<0.002	
3/17/2017	<0.002	
4/28/2017	<0.002	
8/2/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/17/2019		<0.002
6/24/2019		<0.002
9/10/2019		<0.002
3/10/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.002	
10/28/2011	<0.002	
12/12/2011	<0.002	
1/25/2012	<0.002	
7/16/2012	<0.002	
1/24/2013	<0.002	
7/23/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/21/2015	<0.002	
1/22/2016	<0.002	
3/22/2016	<0.002	
5/23/2016	0.00103 (J)	
7/25/2016	0.0021 (J)	
9/15/2016	0.0012 (J)	
11/9/2016	<0.002	
1/17/2017	<0.002	
3/16/2017	<0.002	
4/27/2017	<0.002	
8/1/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/21/2019		<0.002
6/25/2019		<0.002
9/10/2019		<0.002
3/10/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.002	
10/28/2011	<0.002	
12/12/2011	<0.002	
1/31/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/22/2014	<0.002	
7/8/2014	<0.002 (D)	
1/21/2015	<0.002	
7/22/2015	<0.002	
1/19/2016	<0.002 (D)	
3/22/2016	0.00113 (J)	
5/19/2016	0.00103 (J)	
7/21/2016	0.0013 (J)	
1/17/2017	<0.002	
4/27/2017	<0.002	
7/18/2017	<0.002	
8/1/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/18/2019		<0.002
6/25/2019		<0.002
9/10/2019		<0.002
3/10/2020		<0.002

Prediction Limit

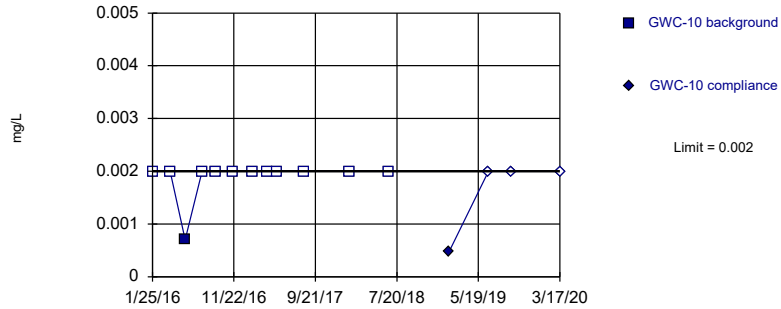
Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.002	
6/25/2014	<0.002	
7/21/2015	<0.002	
3/31/2016	0.000602 (J)	
5/25/2016	0.000642 (J)	
7/27/2016	<0.002	
8/1/2017	<0.002	
10/3/2017	<0.002	
6/20/2018	<0.002	
1/18/2019		<0.002
6/25/2019		<0.002
9/11/2019		<0.002
3/10/2020		<0.002

Within Limit

Prediction Limit Intrawell Non-parametric

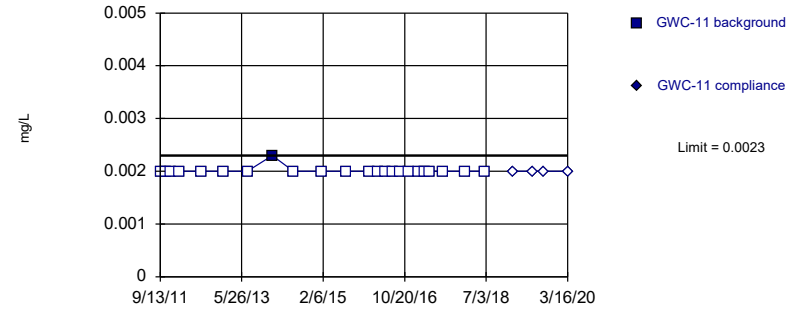


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

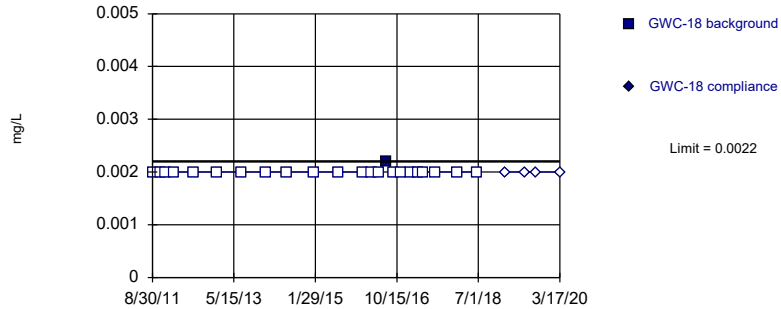


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

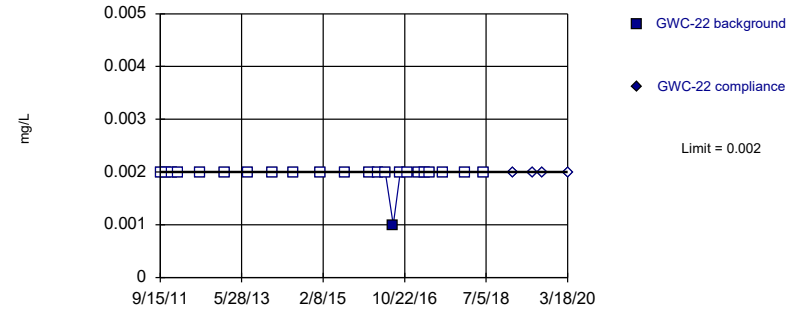


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	0.000703 (J)	
7/27/2016	<0.002	
9/16/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/31/2019		0.00048 (J)
6/26/2019		<0.002
9/17/2019		<0.002
3/17/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.002	
10/28/2011	<0.002	
12/4/2011	<0.002	
2/9/2012	<0.002	
7/18/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/15/2014	0.0023 (J)	
6/25/2014	<0.002	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/26/2016	<0.002	
3/29/2016	<0.002	
5/25/2016	<0.002	
7/25/2016	<0.002	
9/19/2016	<0.002	
11/16/2016	<0.002	
1/31/2017	<0.002	
3/23/2017	<0.002	
5/2/2017	<0.002	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/20/2018	<0.002	
1/24/2019		<0.002
6/26/2019		<0.002
9/16/2019		<0.002
3/16/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.002	
10/26/2011	<0.002	
12/3/2011	<0.002	
2/9/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/14/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/26/2016	<0.002	
7/25/2016	0.0022 (J)	
9/19/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/28/2019		<0.002
6/27/2019		<0.002
9/11/2019		<0.002
3/17/2020		<0.002

Prediction Limit

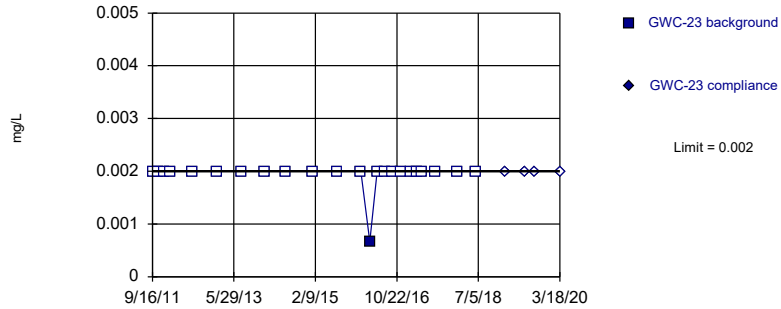
Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.002	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	<0.002	
1/22/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/23/2015	<0.002	
1/26/2016	<0.002	
3/31/2016	<0.002	
5/26/2016	<0.002	
7/26/2016	0.001 (J)	
9/20/2016	<0.002	
11/17/2016	<0.002	
2/3/2017	<0.002	
3/28/2017	<0.002	
5/3/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/24/2019		<0.002
6/25/2019		<0.002
9/10/2019		<0.002
3/18/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

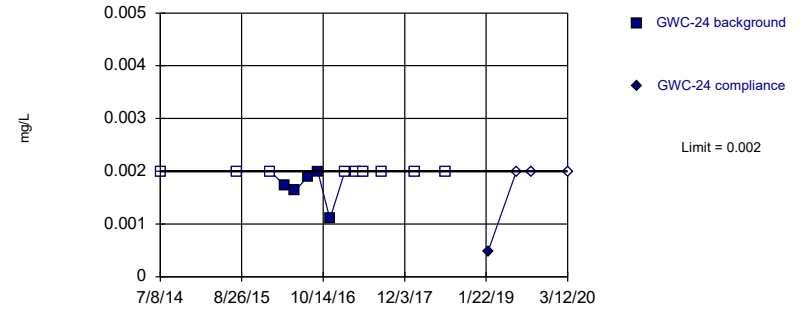


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

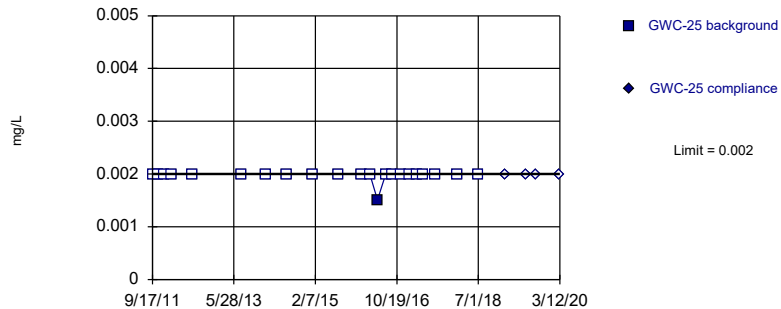


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

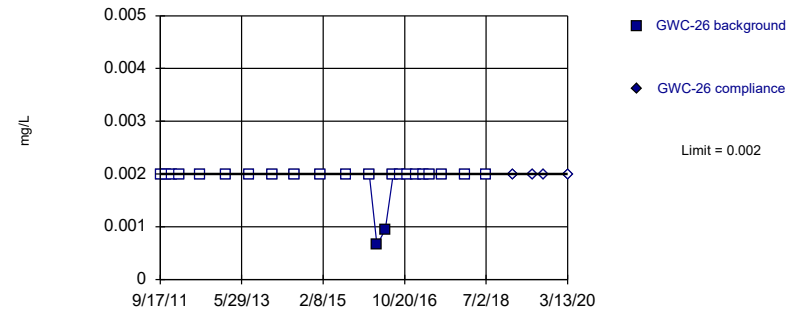


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.002	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/31/2012	<0.002	
7/18/2012	<0.002	
1/22/2013	<0.002	
7/23/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	<0.002	
1/22/2015	<0.002	
7/29/2015	<0.002	
1/21/2016	<0.002	
3/29/2016	0.000665 (J)	
5/25/2016	<0.002	
7/27/2016	<0.002	
9/20/2016	<0.002	
11/18/2016	<0.002	
2/3/2017	<0.002	
3/28/2017	<0.002	
5/4/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/25/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/18/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.002	
7/31/2015	<0.002	
1/20/2016	<0.002	
3/30/2016	0.00174 (J)	
5/25/2016	0.00163 (J)	
7/27/2016	0.0019 (J)	
9/16/2016	0.002 (J)	
11/18/2016	0.0011 (J)	
2/3/2017	<0.002	
3/29/2017	<0.002	
5/4/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/27/2018	<0.002	
1/31/2019		0.00048 (J)
6/26/2019		<0.002
9/11/2019		<0.002
3/12/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.002	
10/31/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/17/2012	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/30/2015	<0.002	
1/21/2016	<0.002	
3/28/2016	<0.002	
5/25/2016	0.00151 (J)	
7/27/2016	<0.002	
9/19/2016	<0.002	
11/15/2016	<0.002	
1/24/2017	<0.002	
3/23/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/25/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		<0.002
6/25/2019		<0.002
9/11/2019		<0.002
3/12/2020		<0.002

Prediction Limit

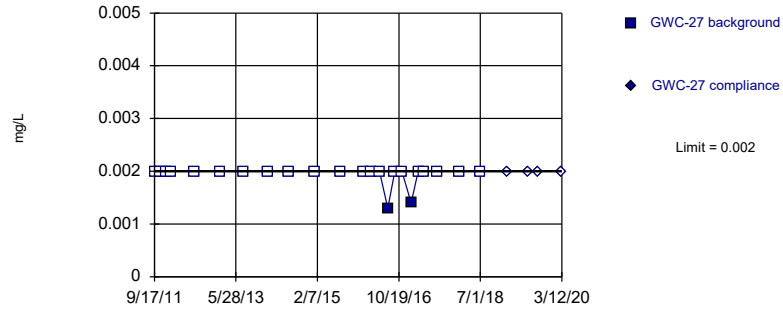
Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.002	
10/29/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/31/2015	<0.002	
1/25/2016	<0.002	
3/24/2016	0.000653 (J)	
5/25/2016	0.000943 (J)	
7/26/2016	<0.002	
9/19/2016	<0.002	
11/14/2016	<0.002	
1/19/2017	<0.002	
3/16/2017	<0.002	
5/1/2017	<0.002	
8/3/2017	<0.002	
1/22/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		<0.002
6/25/2019		<0.002
9/12/2019		<0.002
3/13/2020		<0.002

Within Limit

Prediction Limit Intrawell Non-parametric

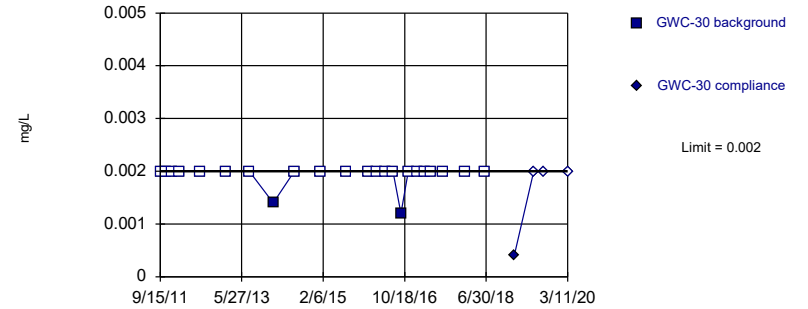


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

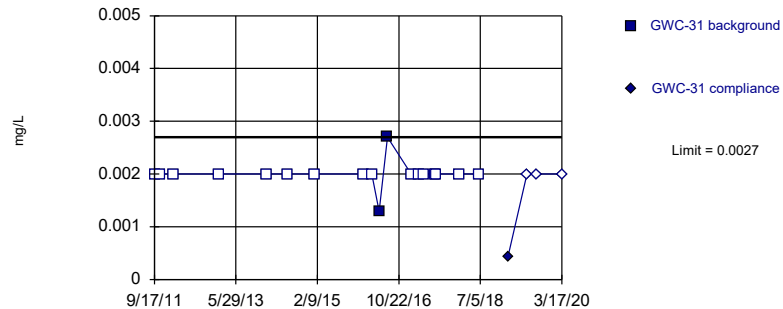


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

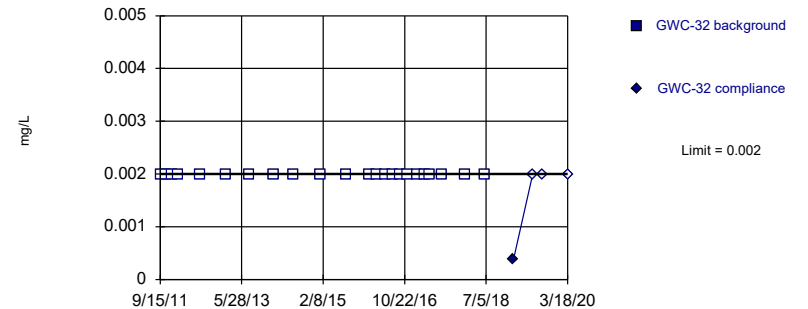


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.002	
10/29/2011	<0.002	
12/14/2011	<0.002	
1/25/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/30/2015	<0.002	
1/22/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/26/2016	0.0013 (J)	
9/19/2016	<0.002	
11/11/2016	<0.002	
1/20/2017	0.0014 (J)	
3/16/2017	<0.002	
4/28/2017	<0.002	
8/3/2017	<0.002	
1/19/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/12/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.002	
10/28/2011	<0.002	
12/13/2011	<0.002	
2/8/2012	<0.002	
7/18/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	0.0014 (J)	
7/1/2014	<0.002	
1/20/2015	<0.002	
7/30/2015	<0.002	
1/19/2016	<0.002	
3/23/2016	<0.002	
5/20/2016	<0.002	
7/21/2016	<0.002	
9/20/2016	0.0012 (J)	
11/14/2016	<0.002	
1/24/2017	<0.002	
3/17/2017	<0.002	
5/1/2017	<0.002	
8/4/2017	<0.002	
1/24/2018	<0.002	
6/21/2018	<0.002	
1/30/2019		0.0004 (J)
6/27/2019		<0.002
9/10/2019		<0.002
3/11/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.002	
10/31/2011	<0.002	
2/7/2012	<0.002	
1/23/2013	<0.002	
1/23/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
1/25/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	0.00129 (J)	
7/27/2016	0.0027	
1/25/2017	<0.002	
3/23/2017	<0.002	
5/2/2017	<0.002	
7/19/2017	<0.002	
8/4/2017	<0.002	
1/23/2018	<0.002	
6/27/2018	<0.002	
1/31/2019		0.00042 (J)
6/26/2019		<0.002
9/11/2019		<0.002
3/17/2020		<0.002

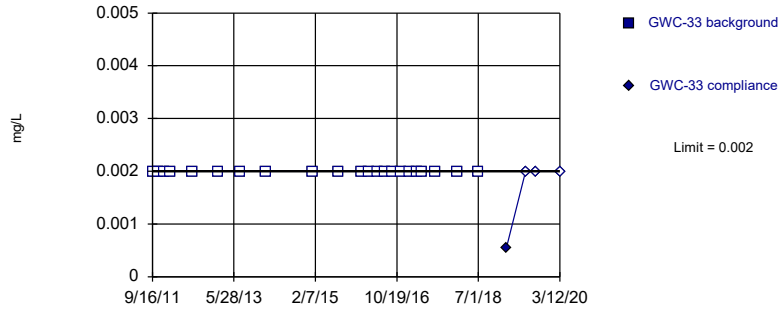
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.002	
10/31/2011	<0.002	
12/13/2011	<0.002	
2/1/2012	<0.002	
7/17/2012	<0.002	
1/23/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/1/2014	<0.002	
1/20/2015	<0.002	
7/30/2015	<0.002	
1/25/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/22/2016	<0.002	
9/16/2016	<0.002	
11/15/2016	<0.002	
1/26/2017	<0.002	
3/24/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/26/2018	<0.002	
1/30/2019		0.00039 (J)
6/27/2019		<0.002
9/12/2019		<0.002
3/18/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

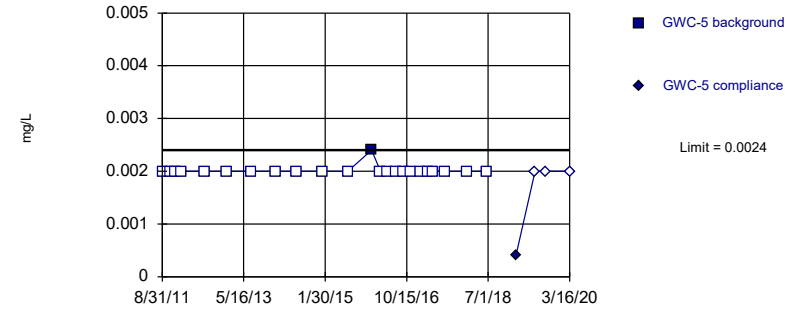


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

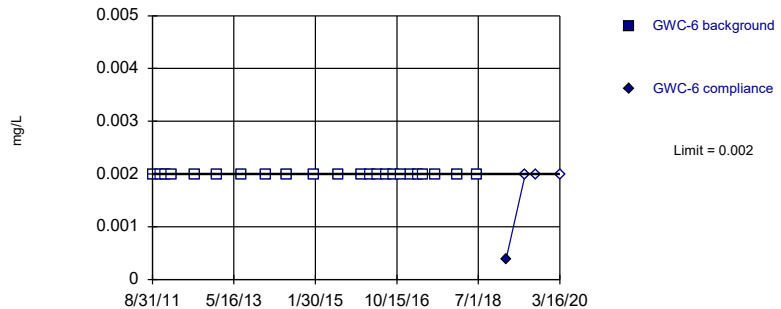


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

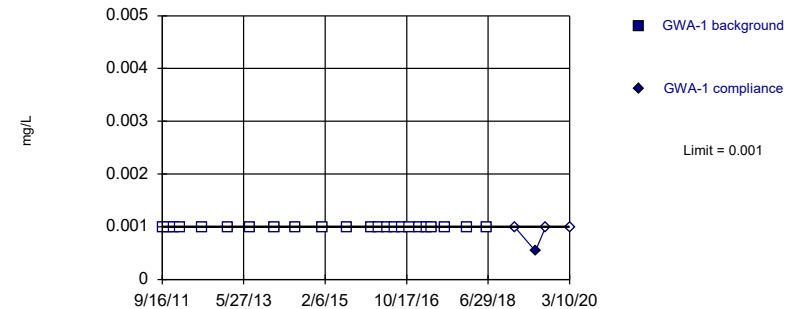


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Antimony Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.002	
10/30/2011	<0.002	
12/13/2011	<0.002	
2/1/2012	<0.002	
7/17/2012	<0.002	
1/23/2013	<0.002	
7/17/2013	<0.002	
1/23/2014	<0.002	
1/20/2015	<0.002	
7/29/2015	<0.002	
1/25/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/22/2016	<0.002	
9/16/2016	<0.002	
11/17/2016	<0.002	
1/25/2017	<0.002	
3/23/2017	<0.002	
5/1/2017	<0.002	
8/4/2017	<0.002	
1/23/2018	<0.002	
6/26/2018	<0.002	
1/30/2019		0.00055 (J)
6/26/2019		<0.002
9/12/2019		<0.002
3/12/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.002	
10/27/2011	<0.002	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	<0.002	
1/9/2013	<0.002	
7/17/2013	<0.002	
1/15/2014	<0.002	
6/25/2014	<0.002	
1/13/2015	<0.002	
7/24/2015	<0.002	
1/20/2016	0.0024 (J)	
3/28/2016	<0.002	
5/23/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/15/2016	<0.002	
1/26/2017	<0.002	
3/22/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/30/2019		0.0004 (J)
6/26/2019		<0.002
9/12/2019		<0.002
3/16/2020		<0.002

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.002	
10/30/2011	<0.002	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/24/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/15/2014	<0.002	
6/25/2014	<0.002	
1/20/2015	<0.002	
7/24/2015	<0.002	
1/20/2016	<0.002	
3/28/2016	<0.002	
5/24/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/16/2016	<0.002	
1/26/2017	<0.002	
3/22/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/30/2019		0.00039 (J)
6/26/2019		<0.002
9/12/2019		<0.002
3/16/2020		<0.002

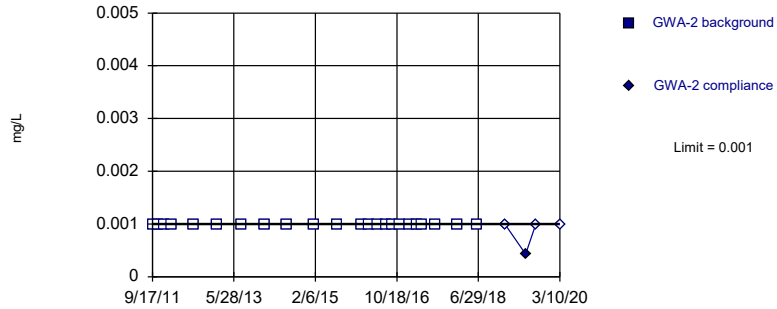
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.001	
10/27/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/24/2013	<0.001	
7/17/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/21/2015	<0.001	
1/21/2016	<0.001	
3/23/2016	<0.001	
5/20/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/11/2016	<0.001	
1/19/2017	<0.001	
3/16/2017	<0.001	
4/28/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		<0.001
6/24/2019		0.00054 (J)
9/9/2019		<0.001
3/10/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

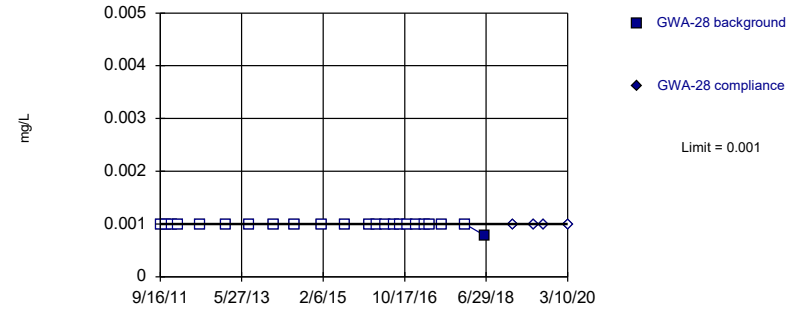


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

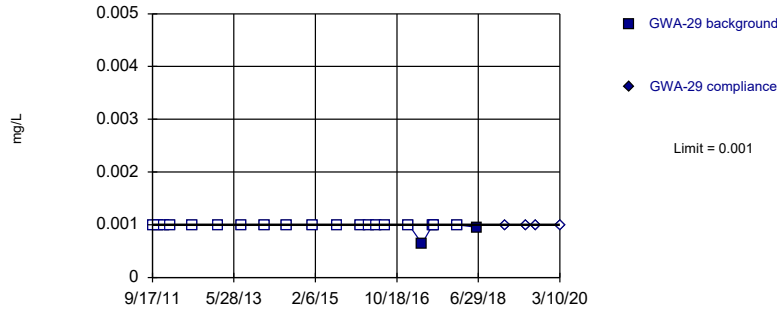


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

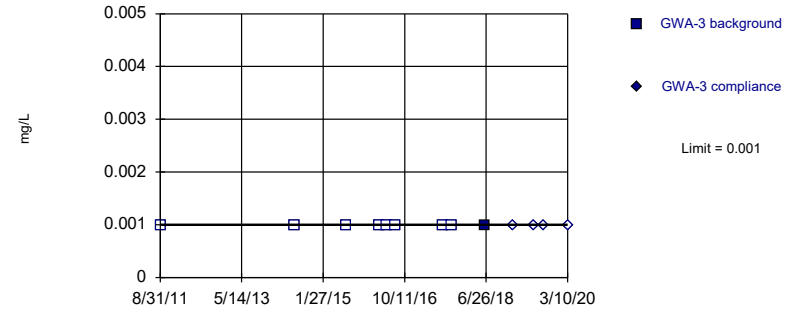


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 90.48% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/22/2015	<0.001	
1/20/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/16/2016	<0.001	
11/10/2016	<0.001	
1/19/2017	<0.001	
3/17/2017	<0.001	
4/28/2017	<0.001	
8/2/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		<0.001
6/24/2019		0.00043 (J)
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.001	
10/28/2011	<0.001	
12/12/2011	<0.001	
1/25/2012	<0.001	
7/16/2012	<0.001	
1/24/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/21/2015	<0.001	
1/22/2016	<0.001	
3/22/2016	<0.001	
5/23/2016	<0.001	
7/25/2016	<0.001	
9/15/2016	<0.001	
11/9/2016	<0.001	
1/17/2017	<0.001	
3/16/2017	<0.001	
4/27/2017	<0.001	
8/1/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	0.00078 (J)	
1/21/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.001	
10/28/2011	<0.001	
12/12/2011	<0.001	
1/31/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/8/2014	<0.001 (D)	
1/21/2015	<0.001	
7/22/2015	<0.001	
1/19/2016	<0.001 (D)	
3/22/2016	<0.001	
5/19/2016	<0.001	
7/21/2016	<0.001	
1/17/2017	<0.001	
4/27/2017	0.00064 (J)	
7/18/2017	<0.001	
8/1/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	0.00095 (J)	
1/18/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

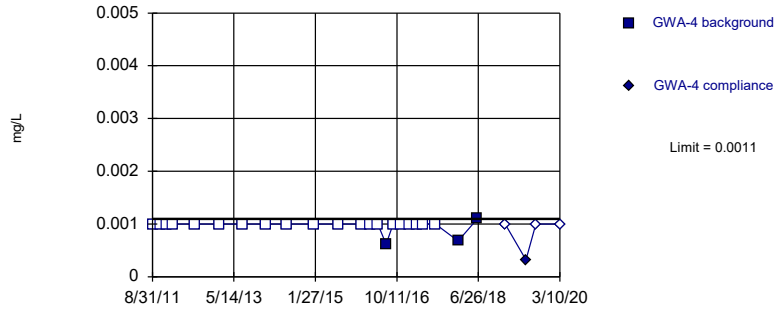
Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.001	
6/25/2014	<0.001	
7/21/2015	<0.001	
3/31/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
8/1/2017	<0.001	
10/3/2017	<0.001	
6/20/2018	0.001 (J)	
1/18/2019		<0.001
6/25/2019		<0.001
9/11/2019		<0.001
3/10/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

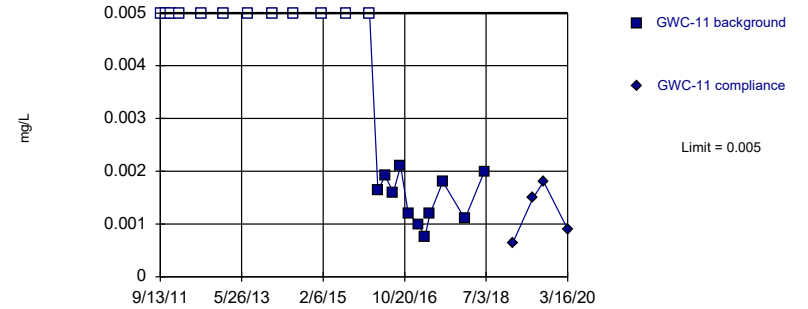


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

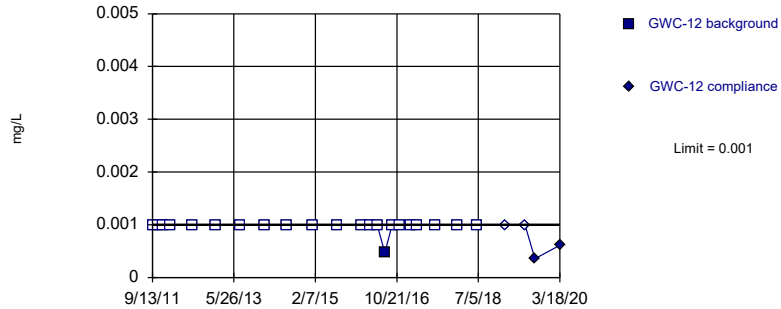


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 52.17% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

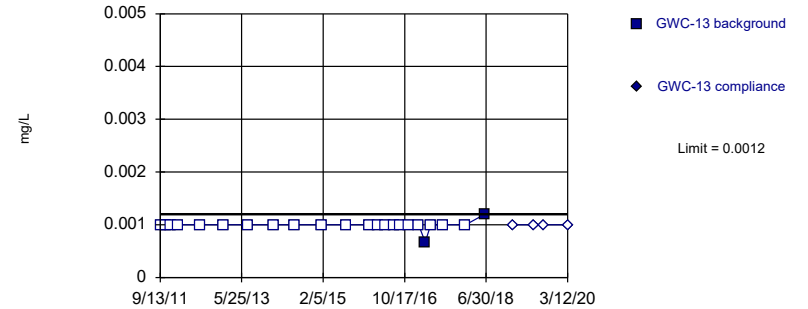


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/1/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/21/2015	<0.001	
1/20/2016	<0.001	
3/23/2016	<0.001	
5/19/2016	<0.001	
7/21/2016	0.00062 (J)	
9/14/2016	<0.001	
11/10/2016	<0.001	
1/17/2017	<0.001	
3/16/2017	<0.001	
4/27/2017	<0.001	
8/2/2017	<0.001	
1/22/2018	0.00068 (J)	
6/19/2018	0.0011 (J)	
1/17/2019		<0.001
6/24/2019		0.00032 (J)
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	<0.005	
2/9/2012	<0.005	
7/18/2012	<0.005	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/15/2014	<0.005	
6/25/2014	<0.005	
1/21/2015	<0.005	
7/28/2015	<0.005	
1/26/2016	<0.005	
3/29/2016	0.00165 (J)	
5/25/2016	0.00191 (J)	
7/25/2016	0.0016	
9/19/2016	0.0021	
11/16/2016	0.0012 (J)	
1/31/2017	0.001 (J)	
3/23/2017	0.00076 (J)	
5/2/2017	0.0012 (J)	
8/7/2017	0.0018	
1/24/2018	0.0011 (J)	
6/20/2018	0.002	
1/24/2019		0.00065 (J)
6/26/2019		0.0015
9/16/2019		0.0018
3/16/2020		0.0009 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/22/2016	0.00047 (J)	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	0.0024 (O)	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/11/2019		0.00036 (J)
3/18/2020		0.00061 (J)

Prediction Limit

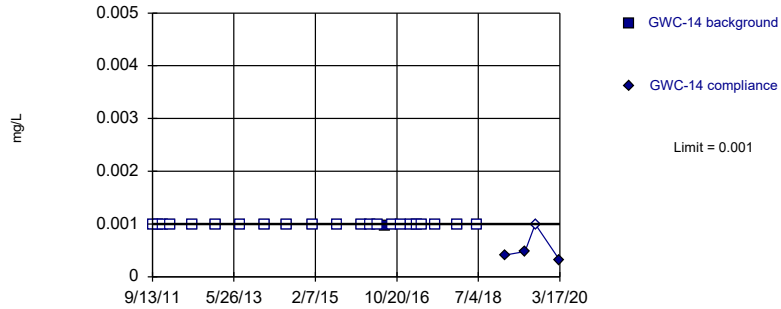
Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/15/2016	<0.001	
11/17/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	0.00067 (J)	
5/3/2017	<0.001	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	0.0012 (J)	
1/22/2019		<0.001
6/25/2019		<0.001
9/12/2019		<0.001
3/12/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

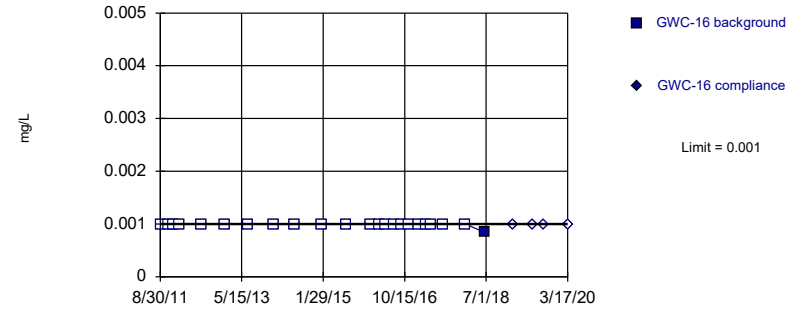


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

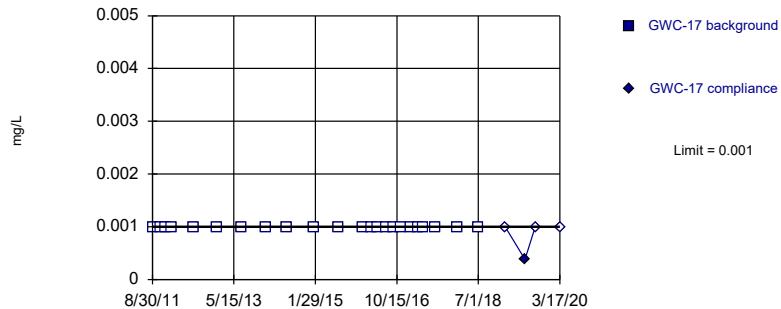


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

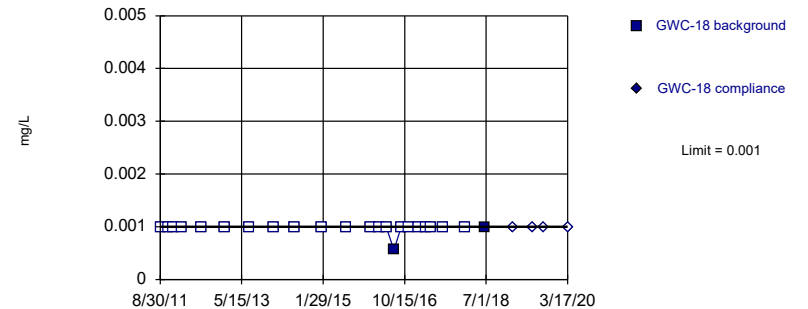


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	0.00096 (J)	
9/15/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		0.00041 (J)
6/25/2019		0.00048 (J)
9/12/2019		<0.001
3/17/2020		0.00031 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/16/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	0.00084 (J)	
1/25/2019		<0.001
6/25/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/26/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.00038 (J)
9/11/2019		<0.001
3/17/2020		<0.001

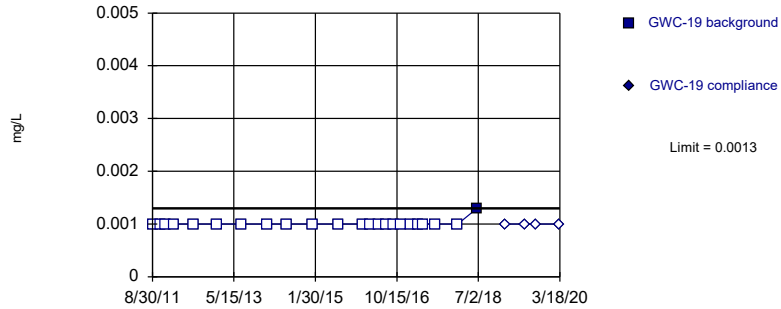
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/9/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	0.00056 (J)	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	0.001 (J)	
1/28/2019		<0.001
6/27/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

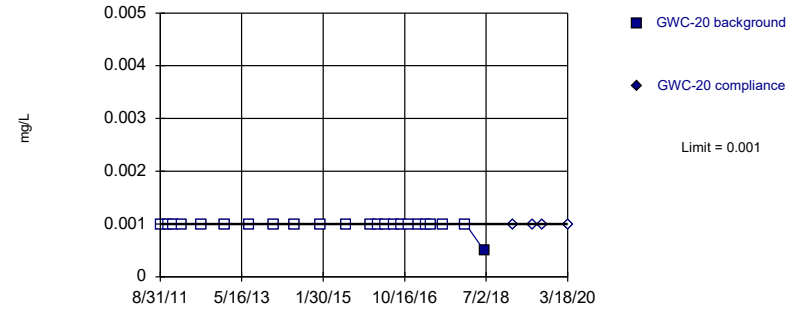


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

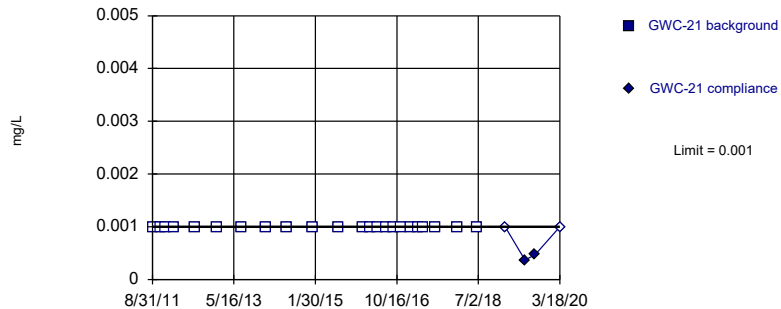


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

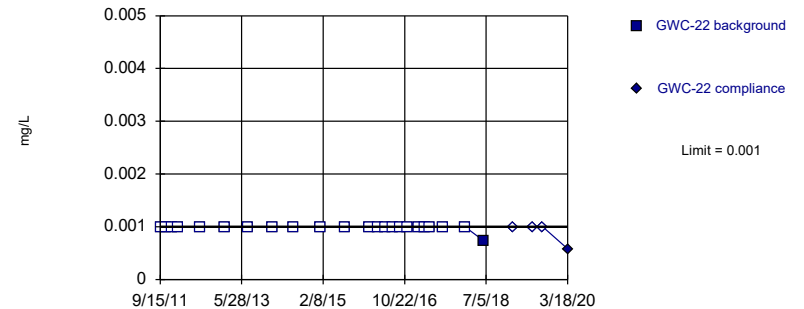


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	0.0013	
1/28/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/21/2018	0.00049 (J)	
1/28/2019		<0.001
6/25/2019		<0.001
9/11/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/17/2012	<0.001	
1/9/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.00037 (J)
9/11/2019		0.00047 (J)
3/18/2020		<0.001

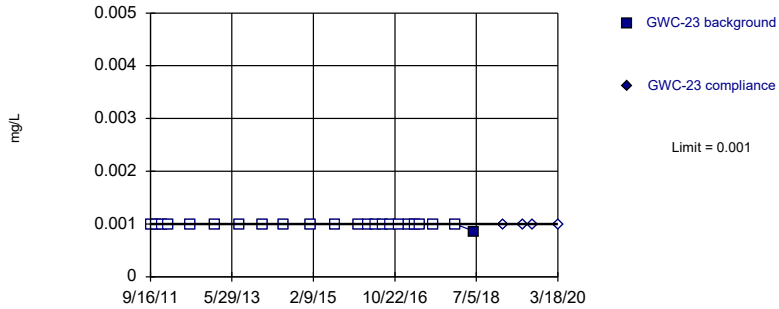
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	0.00073 (J)	
1/24/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/18/2020		0.00058 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

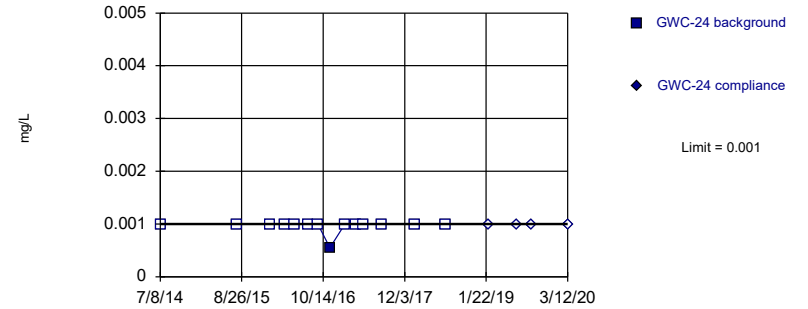


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

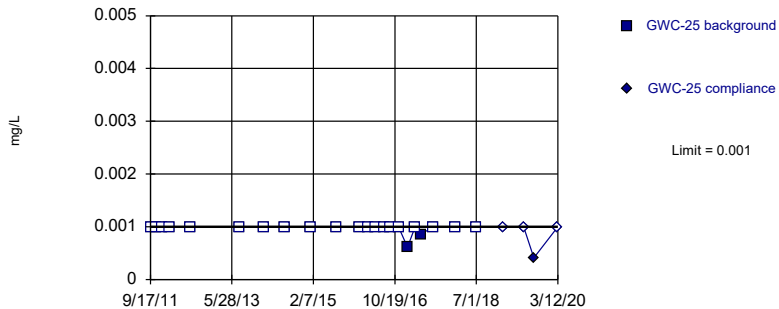


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

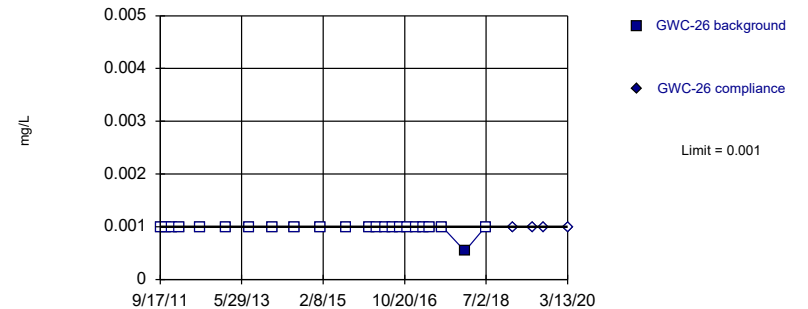


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/20/2016	<0.001	
11/18/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	0.00086 (J)	
1/25/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.001	
7/31/2015	<0.001	
1/20/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/16/2016	<0.001	
11/18/2016	0.00055 (J)	
2/3/2017	<0.001	
3/29/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		<0.001
6/26/2019		<0.001
9/11/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.001	
10/31/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/21/2016	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/19/2016	<0.001	
11/15/2016	<0.001	
1/24/2017	0.00061 (J)	
3/23/2017	<0.001	
5/2/2017	0.00085 (J)	
8/3/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/11/2019		0.00041 (J)
3/12/2020		<0.001

Prediction Limit

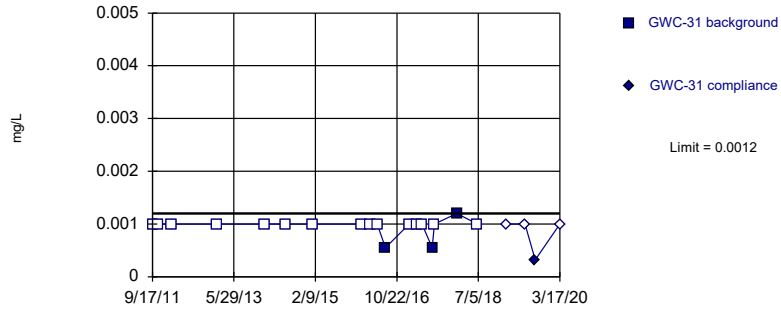
Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/31/2015	<0.001	
1/25/2016	<0.001	
3/24/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/14/2016	<0.001	
1/19/2017	<0.001	
3/16/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/22/2018	0.00054 (J)	
6/27/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/12/2019		<0.001
3/13/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

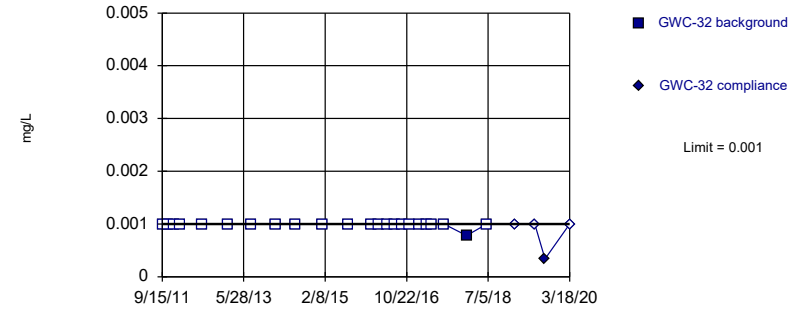


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

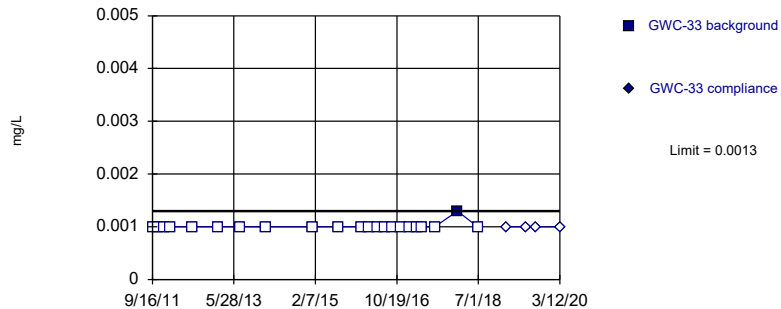


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

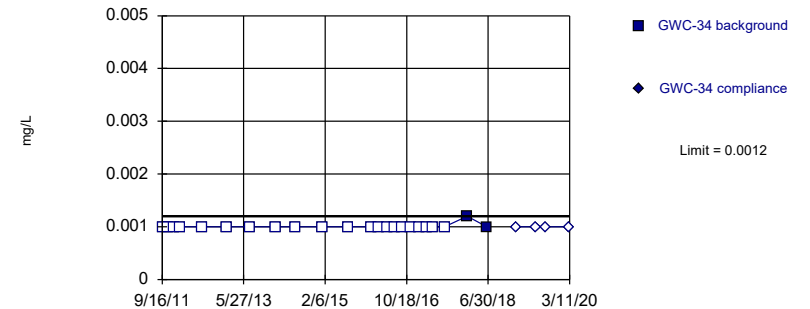


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.001	
10/31/2011	<0.001	
2/7/2012	<0.001	
1/23/2013	<0.001	
1/23/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
1/25/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	0.00055 (J)	
1/25/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
7/19/2017	0.00055 (J)	
8/4/2017	<0.001	
1/23/2018	0.0012 (J)	
6/27/2018	<0.001	
1/31/2019		<0.001
6/26/2019		<0.001
9/11/2019		0.00032 (J)
3/17/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.001	
10/31/2011	<0.001	
12/13/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/1/2014	<0.001	
1/20/2015	<0.001	
7/30/2015	<0.001	
1/25/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/22/2016	<0.001	
9/16/2016	<0.001	
11/15/2016	<0.001	
1/26/2017	<0.001	
3/24/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	0.00078 (J)	
6/26/2018	<0.001	
1/30/2019		<0.001
6/27/2019		<0.001
9/12/2019		0.00034 (J)
3/18/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.001	
10/30/2011	<0.001	
12/13/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
1/20/2015	<0.001	
7/29/2015	<0.001	
1/25/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/22/2016	<0.001	
9/16/2016	<0.001	
11/17/2016	<0.001	
1/25/2017	<0.001	
3/23/2017	<0.001	
5/1/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	0.0013	
6/26/2018	<0.001	
1/30/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/12/2020		<0.001

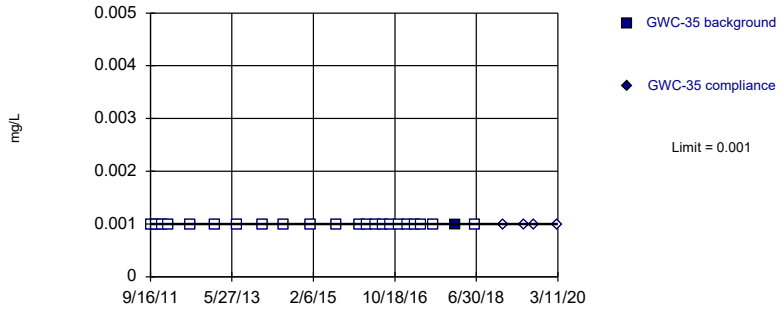
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
3/24/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/25/2017	<0.001	
3/22/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	0.0012 (J)	
6/20/2018	0.001 (J)	
1/28/2019		<0.001
6/26/2019		<0.001
9/11/2019		<0.001
3/11/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

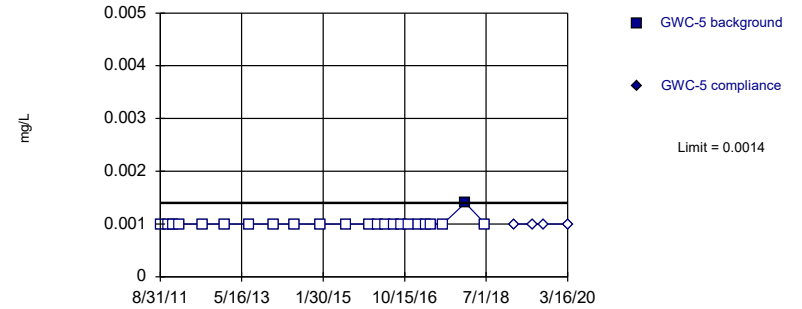


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

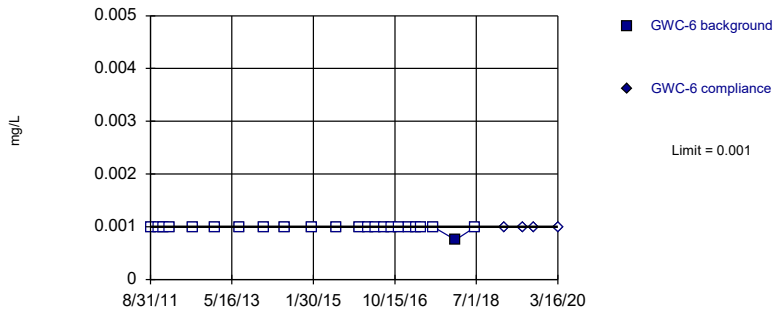


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

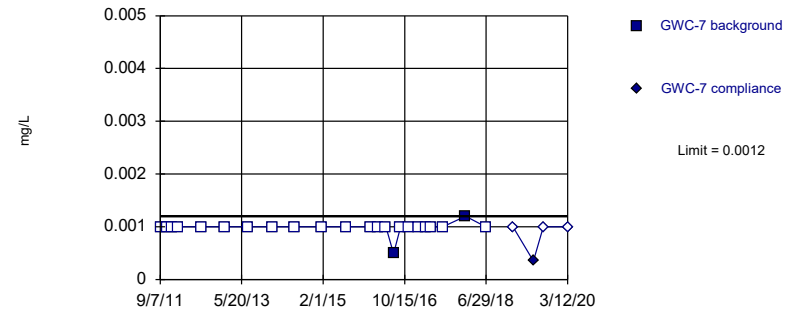


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/21/2016	<0.001	
3/24/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	0.001 (J)	
6/19/2018	<0.001	
1/21/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/11/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.001	
10/27/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/9/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	<0.001	
3/28/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	0.0014	
6/25/2018	<0.001	
1/30/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/16/2020		<0.001

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/24/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/20/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	<0.001	
3/28/2016	<0.001	
5/24/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	0.00075 (J)	
6/25/2018	<0.001	
1/30/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/16/2020		<0.001

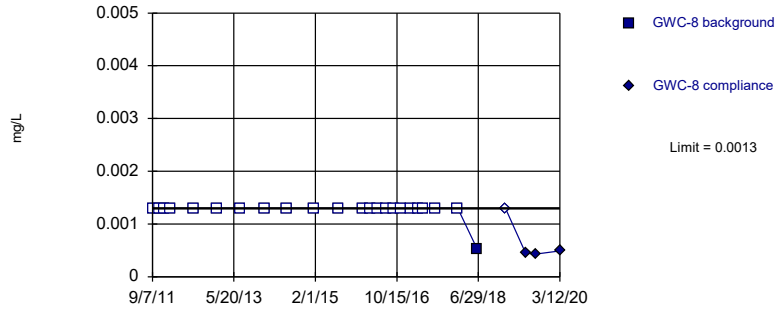
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/20/2015	<0.001	
7/27/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/22/2016	0.00049 (J)	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	0.0012 (J)	
6/25/2018	<0.001	
1/21/2019		<0.001
6/25/2019		0.00035 (J)
9/10/2019		<0.001
3/12/2020		<0.001

Within Limit

Prediction Limit
 Intrawell Non-parametric

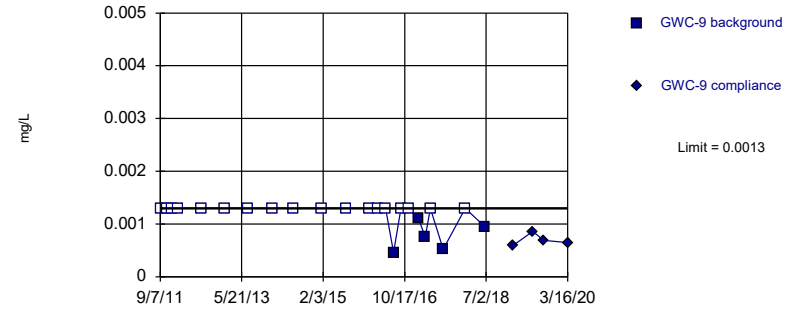


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

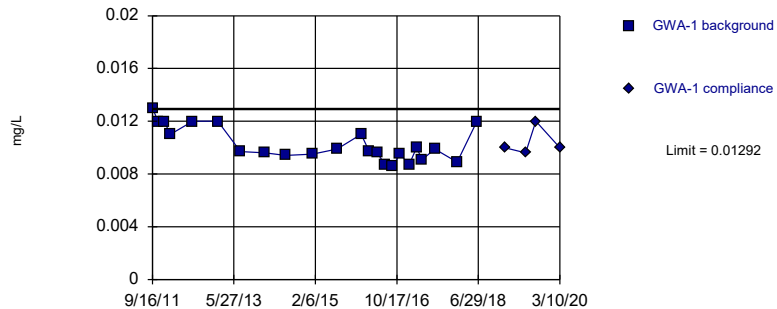


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Arsenic Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Parametric

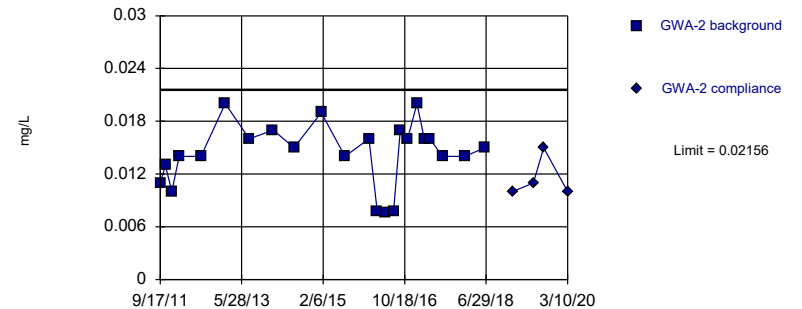


Background Data Summary: Mean=0.01025, Std. Dev.=0.001319, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8813, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.01435, Std. Dev.=0.003559, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.0013	
10/30/2011	<0.0013	
12/5/2011	<0.0013	
1/19/2012	<0.0013	
7/18/2012	<0.0013	
1/7/2013	<0.0013	
7/9/2013	<0.0013	
1/14/2014	<0.0013	
6/24/2014	<0.0013	
1/20/2015	<0.0013	
7/27/2015	<0.0013	
1/26/2016	<0.0013	
3/29/2016	<0.0013	
5/24/2016	<0.0013	
7/26/2016	<0.0013	
9/19/2016	<0.0013	
11/16/2016	<0.0013	
1/26/2017	<0.0013	
3/23/2017	<0.0013	
5/3/2017	<0.0013	
8/7/2017	<0.0013	
1/24/2018	<0.0013	
6/21/2018	0.00052 (J)	
1/22/2019		<0.0013
6/25/2019		0.00045 (J)
9/10/2019		0.00043 (J)
3/12/2020		0.00049 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.0013	
10/30/2011	<0.0013	
12/4/2011	<0.0013	
1/19/2012	<0.0013	
7/18/2012	<0.0013	
1/8/2013	<0.0013	
7/9/2013	<0.0013	
1/14/2014	<0.0013	
6/24/2014	<0.0013	
1/20/2015	<0.0013	
7/27/2015	<0.0013	
1/26/2016	<0.0013	
3/29/2016	<0.0013	
5/24/2016	<0.0013	
7/25/2016	0.00046 (J)	
9/19/2016	<0.0013	
11/16/2016	<0.0013	
1/31/2017	0.0011 (J)	
3/23/2017	0.00076 (J)	
5/2/2017	<0.0013	
8/7/2017	0.00052 (J)	
1/24/2018	<0.0013	
6/21/2018	0.00095 (J)	
1/22/2019		0.00059 (J)
6/25/2019		0.00086 (J)
9/16/2019		0.00069 (J)
3/16/2020		0.00065 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	0.013	
10/27/2011	0.012	
12/13/2011	0.012	
1/31/2012	0.011	
7/18/2012	0.012	
1/24/2013	0.012	
7/17/2013	0.0097	
1/21/2014	0.0096	
6/25/2014	0.0094	
1/14/2015	0.0095	
7/21/2015	0.0099	
1/21/2016	0.011	
3/23/2016	0.00968 (J)	
5/20/2016	0.0096 (J)	
7/21/2016	0.0087	
9/15/2016	0.0086	
11/11/2016	0.0095	
1/19/2017	0.0087	
3/16/2017	0.01	
4/28/2017	0.0091	
8/3/2017	0.0099	
1/19/2018	0.0089	
6/19/2018	0.012	
1/17/2019		0.01
6/24/2019		0.0096 (J)
9/9/2019		0.012
3/10/2020		0.01

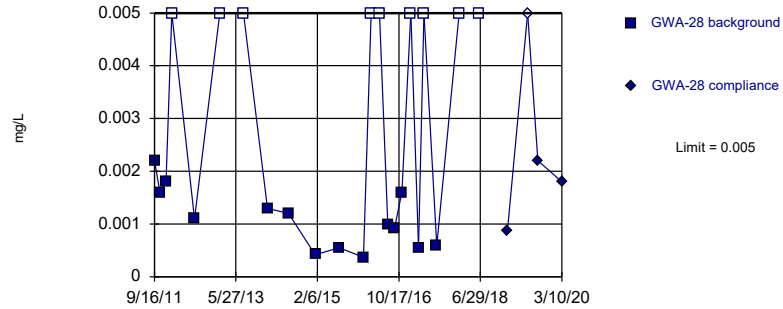
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	0.011	
10/27/2011	0.013	
12/14/2011	0.01	
2/7/2012	0.014	
7/23/2012	0.014	
1/23/2013	0.02	
7/24/2013	0.016	
1/22/2014	0.017	
7/1/2014	0.015	
1/22/2015	0.019	
7/22/2015	0.014	
1/20/2016	0.016	
3/23/2016	0.00773 (J)	
5/24/2016	0.00761 (J)	
7/26/2016	0.0078	
9/16/2016	0.017	
11/10/2016	0.016	
1/19/2017	0.02	
3/17/2017	0.016	
4/28/2017	0.016	
8/2/2017	0.014	
1/19/2018	0.014	
6/19/2018	0.015	
1/17/2019		0.01
6/24/2019		0.011
9/10/2019		0.015
3/10/2020		0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

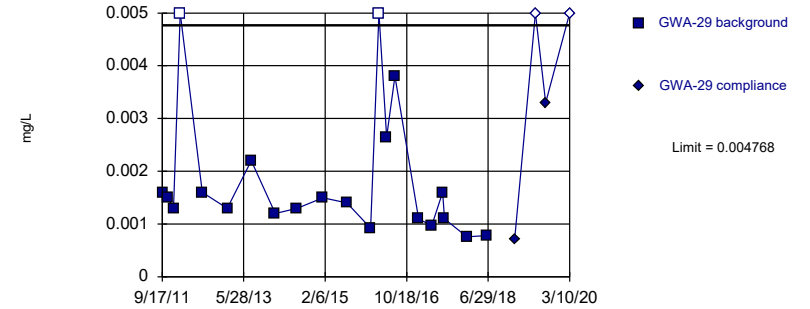


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 39.13% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

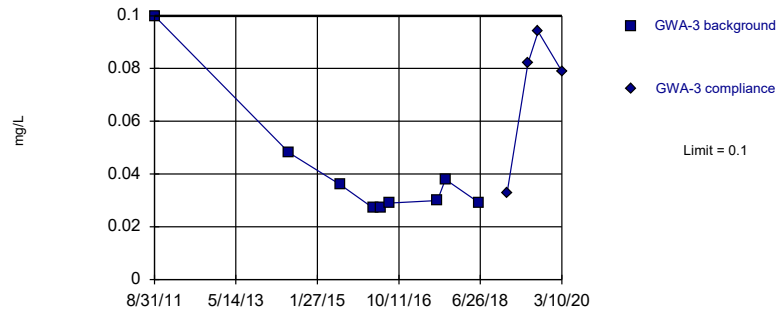


Background Data Summary (based on natural log transformation): Mean=-6.46, Std. Dev.=0.5402, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

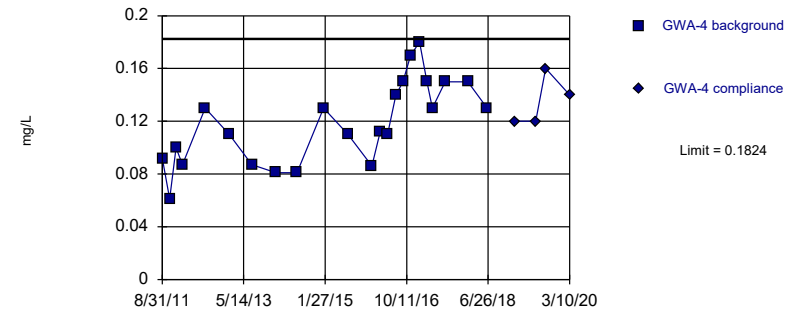


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.1186, Std. Dev.=0.03152, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9643, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	0.0022	
10/28/2011	0.0016	
12/12/2011	0.0018	
1/25/2012	<0.01	
7/16/2012	0.0011	
1/24/2013	<0.01	
7/23/2013	<0.01	
1/22/2014	0.0013	
7/1/2014	0.0012 (J)	
1/21/2015	0.00042 (J)	
7/21/2015	0.00055 (J)	
1/22/2016	0.00037 (J)	
3/22/2016	<0.01	
5/23/2016	<0.01	
7/25/2016	0.001 (J)	
9/15/2016	0.00092 (J)	
11/9/2016	0.0016 (J)	
1/17/2017	<0.01	
3/16/2017	0.00055 (J)	
4/27/2017	<0.01	
8/1/2017	0.00059 (J)	
1/19/2018	<0.01	
6/19/2018	<0.01	
1/21/2019		0.00088
6/25/2019		<0.01
9/10/2019		0.0022 (J)
3/10/2020		0.0018 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	0.0016	
10/28/2011	0.0015	
12/12/2011	0.0013	
1/31/2012	<0.01	
7/17/2012	0.0016	
1/24/2013	0.0013	
7/24/2013	0.0022	
1/22/2014	0.0012 (J)	
7/8/2014	0.0013 (D)	
1/21/2015	0.0015	
7/22/2015	0.0014	
1/19/2016	0.00092 (JD)	
3/22/2016	<0.01	
5/19/2016	0.00265 (J)	
7/21/2016	0.0038	
1/17/2017	0.0011 (J)	
4/27/2017	0.00097 (J)	
7/18/2017	0.0016 (J)	
8/1/2017	0.0011 (J)	
1/19/2018	0.00076 (J)	
6/19/2018	0.00078 (J)	
1/18/2019		0.0007 (J)
6/25/2019		<0.01
9/10/2019		0.0033 (J)
3/10/2020		<0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	0.1	
6/25/2014	0.048	
7/21/2015	0.036	
3/31/2016	0.027	
5/25/2016	0.027	
7/27/2016	0.029	
8/1/2017	0.03	
10/3/2017	0.038	
6/20/2018	0.029	
1/18/2019		0.033
6/25/2019		0.082
9/11/2019		0.094
3/10/2020		0.079

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	0.092	
10/27/2011	0.061	
12/14/2011	0.1	
2/1/2012	0.087	
7/23/2012	0.13	
1/23/2013	0.11	
7/17/2013	0.087	
1/15/2014	0.081	
6/25/2014	0.081	
1/14/2015	0.13	
7/21/2015	0.11	
1/20/2016	0.086	
3/23/2016	0.112	
5/19/2016	0.11	
7/21/2016	0.14	
9/14/2016	0.15	
11/10/2016	0.17	
1/17/2017	0.18	
3/16/2017	0.15	
4/27/2017	0.13	
8/2/2017	0.15	
1/22/2018	0.15	
6/19/2018	0.13	
1/17/2019		0.12
6/24/2019		0.12
9/10/2019		0.16
3/10/2020		0.14

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	0.014	
3/30/2016	0.0127	
5/25/2016	0.014	
7/27/2016	0.03	
9/16/2016	0.017	
11/17/2016	0.028	
2/1/2017	0.023	
3/24/2017	0.012	
5/3/2017	0.024	
8/8/2017	0.014	
1/25/2018	0.025	
6/21/2018	0.023	
1/31/2019		0.025
6/26/2019		0.02
9/17/2019		0.026
3/17/2020		0.025

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	0.2	
10/28/2011	0.27	
12/4/2011	0.22	
2/9/2012	0.19	
7/18/2012	0.36	
1/8/2013	0.2	
7/9/2013	0.26	
1/15/2014	0.21	
6/25/2014	0.44	
1/21/2015	0.31	
7/28/2015	0.38	
1/26/2016	0.15	
3/29/2016	0.372	
5/25/2016	0.396	
7/25/2016	0.25	
9/19/2016	0.33	
11/16/2016	0.29	
1/31/2017	0.19	
3/23/2017	0.24	
5/2/2017	0.34	
8/7/2017	0.4	
1/24/2018	0.27	
6/20/2018	0.31	
1/24/2019		0.09
6/26/2019		0.26
9/16/2019		0.35
3/16/2020		0.066

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	0.013	
10/28/2011	0.0092	
12/4/2011	0.0089	
1/24/2012	0.0099	
7/11/2012	0.0099	
1/8/2013	0.012	
7/10/2013	0.014	
1/21/2014	0.014	
7/1/2014	0.014	
1/21/2015	0.016	
7/28/2015	0.013	
1/26/2016	0.014	
3/29/2016	0.0179	
5/25/2016	0.0173	
7/22/2016	0.017	
9/15/2016	0.017	
11/16/2016	0.018	
1/31/2017	0.022	
3/23/2017	0.019	
5/3/2017	0.02	
8/7/2017	0.021	
1/24/2018	0.022	
6/26/2018	0.021	
1/25/2019		0.024
6/26/2019		0.02
9/11/2019		0.022
3/18/2020		0.023

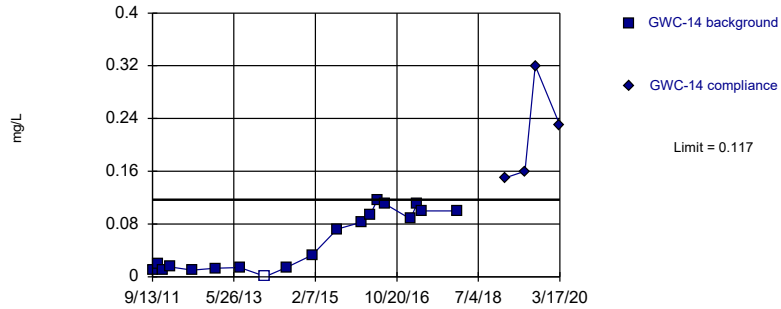
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	0.0043	
10/28/2011	0.0041	
12/4/2011	0.0037	
1/24/2012	0.0042	
7/11/2012	0.0038	
1/8/2013	0.0034	
7/10/2013	0.0035	
1/21/2014	0.0037	
7/1/2014	0.0035	
1/21/2015	0.0031	
7/28/2015	0.0039	
1/27/2016	0.0026	
3/29/2016	0.00337 (J)	
5/25/2016	0.0028 (J)	
7/26/2016	0.0023 (J)	
9/15/2016	0.0026	
11/17/2016	0.0027	
1/31/2017	0.0029	
3/23/2017	0.0032	
5/3/2017	0.0028	
8/4/2017	0.0032	
1/25/2018	0.0037	
6/20/2018	0.0035	
1/22/2019		0.0029
6/25/2019		0.0069 (J)
9/12/2019		0.0054 (J)
3/12/2020		0.0026 (J)

Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

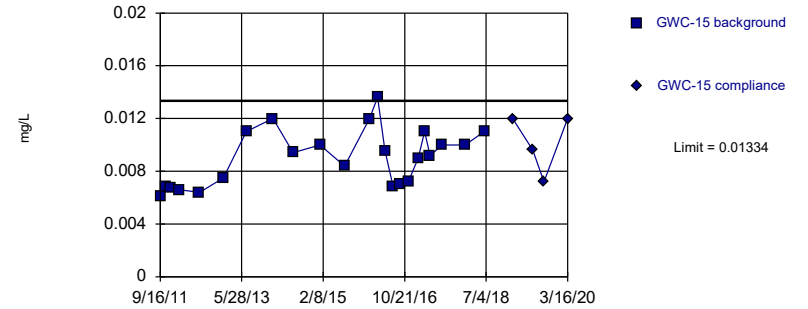


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 19 background values. 5.263% NDs. Well-constituent pair annual alpha = 0.001357. Individual comparison alpha = 0.0006785 (1 of 3).

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Parametric

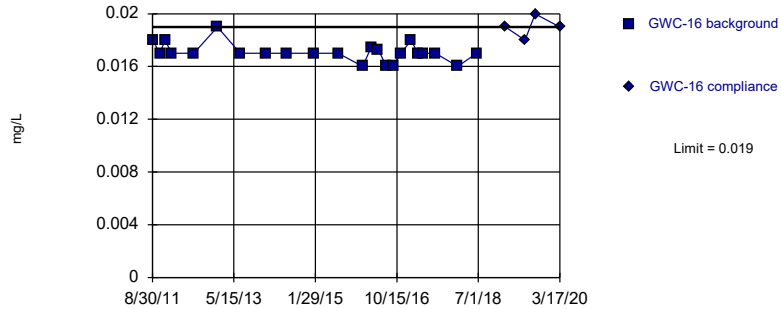


Background Data Summary: Mean=0.009012, Std. Dev.=0.002137, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

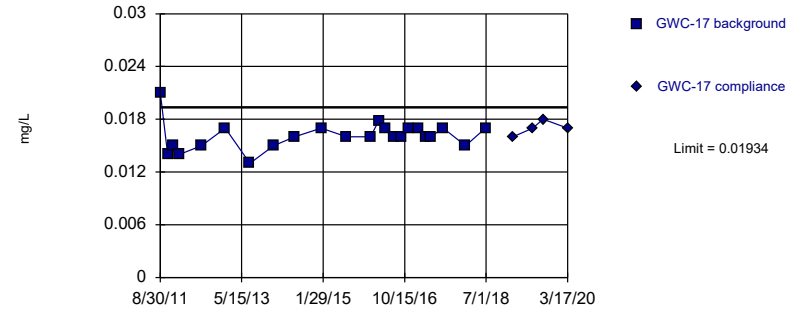


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.01612, Std. Dev.=0.001592, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	0.01	
10/27/2011	0.019	
12/3/2011	0.011	
1/24/2012	0.015	
7/11/2012	0.01	
1/8/2013	0.013	
7/10/2013	0.014	
1/21/2014	<0.0013	
7/1/2014	0.014	
1/14/2015	0.033	
7/22/2015	0.072	
1/27/2016	0.083	
3/30/2016	0.0943	
5/25/2016	0.117	
7/26/2016	0.11	
9/15/2016	0.16 (O)	
11/17/2016	0.27 (O)	
2/1/2017	0.088	
3/23/2017	0.11	
5/3/2017	0.1	
8/7/2017	0.23 (O)	
1/25/2018	0.1	
6/20/2018	0.25 (O)	
1/22/2019		0.15
6/25/2019		0.16
9/12/2019		0.32
3/17/2020		0.23

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	0.0061	
10/27/2011	0.0068	
12/3/2011	0.0067	
2/9/2012	0.0066	
7/11/2012	0.0064	
1/8/2013	0.0075	
7/2/2013	0.011	
1/21/2014	0.012	
6/24/2014	0.0094	
1/14/2015	0.01	
7/22/2015	0.0084	
1/27/2016	0.012	
3/30/2016	0.0136	
5/25/2016	0.00957 (J)	
7/26/2016	0.0068	
9/20/2016	0.007	
11/17/2016	0.0072	
2/1/2017	0.009	
3/23/2017	0.011	
5/3/2017	0.0092	
8/4/2017	0.01	
1/25/2018	0.01	
6/20/2018	0.011	
1/22/2019		0.012
6/25/2019		0.0096 (J)
9/17/2019		0.0072 (J)
3/16/2020		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	0.018	
10/26/2011	0.017	
12/3/2011	0.018	
1/25/2012	0.017	
7/11/2012	0.017	
1/8/2013	0.019	
7/2/2013	0.017	
1/14/2014	0.017	
6/25/2014	0.017	
1/13/2015	0.017	
7/22/2015	0.017	
1/27/2016	0.016	
3/30/2016	0.0174	
5/25/2016	0.0173	
7/27/2016	0.016	
9/16/2016	0.016	
11/17/2016	0.017	
2/1/2017	0.018	
3/24/2017	0.017	
5/3/2017	0.017	
8/7/2017	0.017	
1/25/2018	0.016	
6/20/2018	0.017	
1/25/2019		0.019
6/25/2019		0.018
9/11/2019		0.02
3/17/2020		0.019

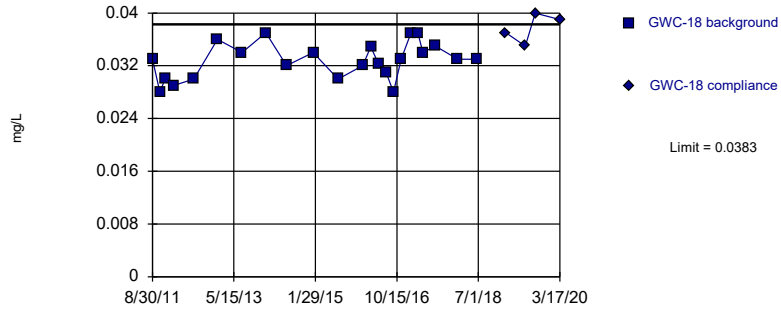
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	0.021	
10/26/2011	0.014	
12/3/2011	0.015	
1/25/2012	0.014	
7/11/2012	0.015	
1/8/2013	0.017	
7/16/2013	0.013	
1/14/2014	0.015	
6/25/2014	0.016	
1/14/2015	0.017	
7/28/2015	0.016	
1/27/2016	0.016	
3/30/2016	0.0178	
5/25/2016	0.0169	
7/27/2016	0.016	
9/19/2016	0.016	
11/17/2016	0.017	
2/1/2017	0.017	
3/24/2017	0.016	
5/3/2017	0.016	
8/7/2017	0.017	
1/25/2018	0.015	
6/26/2018	0.017	
1/24/2019		0.016
6/25/2019		0.017
9/11/2019		0.018
3/17/2020		0.017

Exceeds Limit

Prediction Limit
Intrawell Parametric

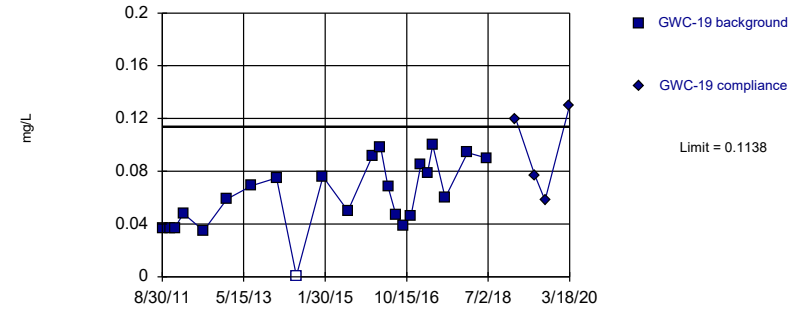


Background Data Summary: Mean=0.03275, Std. Dev.=0.002744, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

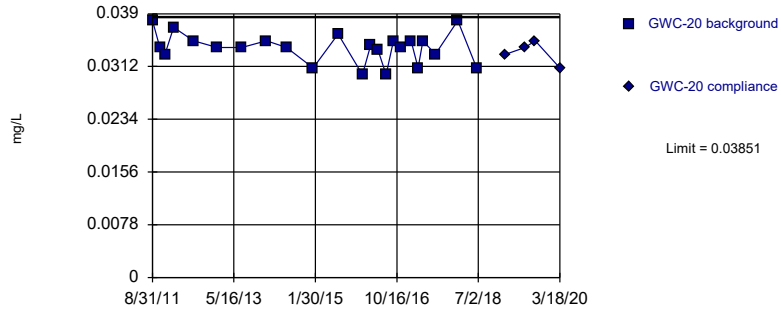


Background Data Summary: Mean=0.06187, Std. Dev.=0.02567, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

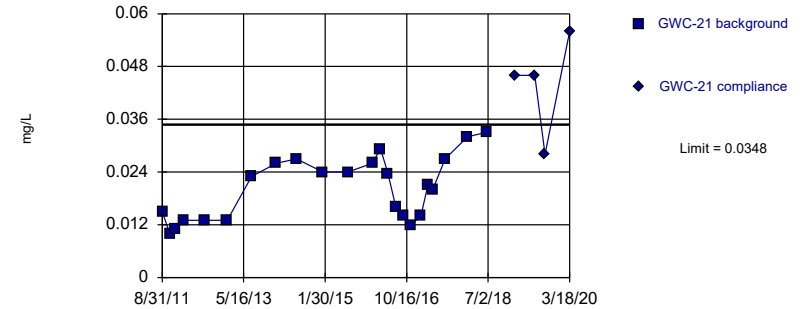


Background Data Summary: Mean=0.03396, Std. Dev.=0.002249, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9372, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0203, Std. Dev.=0.007161, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	0.033	
10/26/2011	0.028	
12/3/2011	0.03	
2/9/2012	0.029	
7/11/2012	0.03	
1/8/2013	0.036	
7/16/2013	0.034	
1/14/2014	0.037	
6/24/2014	0.032	
1/13/2015	0.034	
7/23/2015	0.03	
1/27/2016	0.032	
3/30/2016	0.0349	
5/26/2016	0.0323	
7/25/2016	0.031	
9/19/2016	0.028	
11/17/2016	0.033	
2/1/2017	0.037	
3/24/2017	0.037	
5/3/2017	0.034	
8/7/2017	0.035	
1/25/2018	0.033	
6/21/2018	0.033	
1/28/2019		0.037
6/27/2019		0.035
9/11/2019		0.04
3/17/2020		0.039

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	0.037	
10/26/2011	0.037	
12/3/2011	0.037	
2/8/2012	0.048	
7/11/2012	0.035	
1/8/2013	0.059	
7/16/2013	0.069	
1/21/2014	0.075	
6/24/2014	<0.0013	
1/13/2015	0.076	
7/23/2015	0.05	
1/27/2016	0.092	
3/30/2016	0.0986	
5/26/2016	0.0687	
7/25/2016	0.047	
9/19/2016	0.039	
11/17/2016	0.046	
2/2/2017	0.085	
3/24/2017	0.079	
5/3/2017	0.1	
8/7/2017	0.06	
1/25/2018	0.094	
6/21/2018	0.09	
1/28/2019		0.12
6/26/2019		0.077
9/12/2019		0.058
3/18/2020		0.13

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

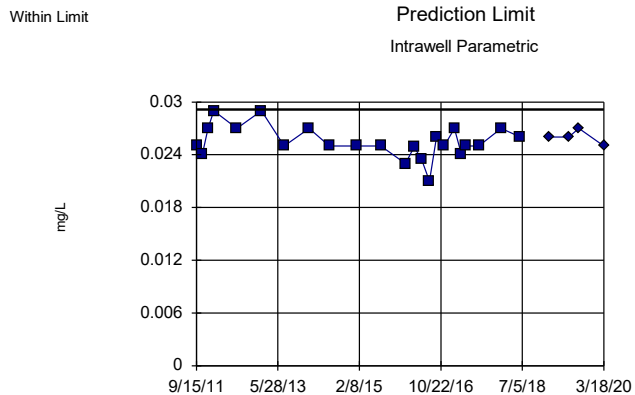
	GWC-20	GWC-20
8/31/2011	0.038	
10/27/2011	0.034	
12/4/2011	0.033	
2/8/2012	0.037	
7/11/2012	0.035	
1/8/2013	0.034	
7/16/2013	0.034	
1/21/2014	0.035	
6/24/2014	0.034	
1/13/2015	0.031	
7/23/2015	0.036	
1/27/2016	0.03	
3/30/2016	0.0344	
5/26/2016	0.0336	
7/25/2016	0.03	
9/20/2016	0.035	
11/17/2016	0.034	
2/2/2017	0.035	
3/28/2017	0.031	
5/4/2017	0.035	
8/7/2017	0.033	
1/26/2018	0.038	
6/21/2018	0.031	
1/28/2019		0.033
6/25/2019		0.034
9/11/2019		0.035
3/18/2020		0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

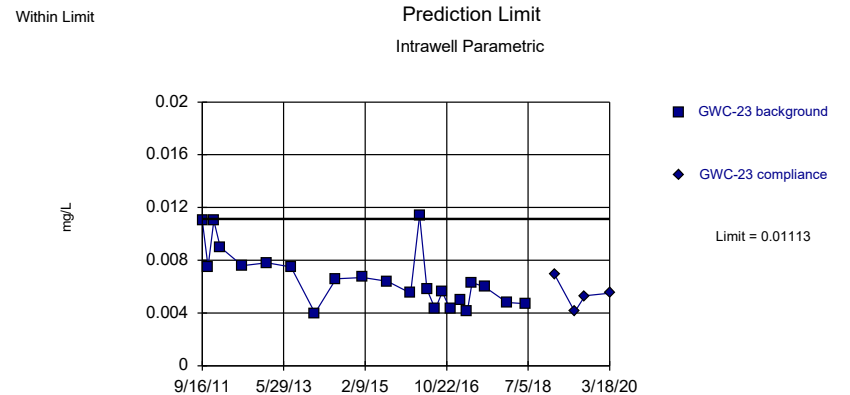
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	0.015	
10/27/2011	0.01	
12/4/2011	0.011	
2/8/2012	0.013	
7/17/2012	0.013	
1/9/2013	0.013	
7/16/2013	0.023	
1/21/2014	0.026	
6/24/2014	0.027	
1/13/2015	0.024	
7/23/2015	0.024	
1/26/2016	0.026	
3/30/2016	0.0293	
5/26/2016	0.0237	
7/26/2016	0.016	
9/20/2016	0.014	
11/17/2016	0.012	
2/2/2017	0.014	
3/28/2017	0.021	
5/4/2017	0.02	
8/7/2017	0.027	
1/26/2018	0.032	
6/20/2018	0.033	
1/24/2019		0.046
6/25/2019		0.046
9/11/2019		0.028
3/18/2020		0.056



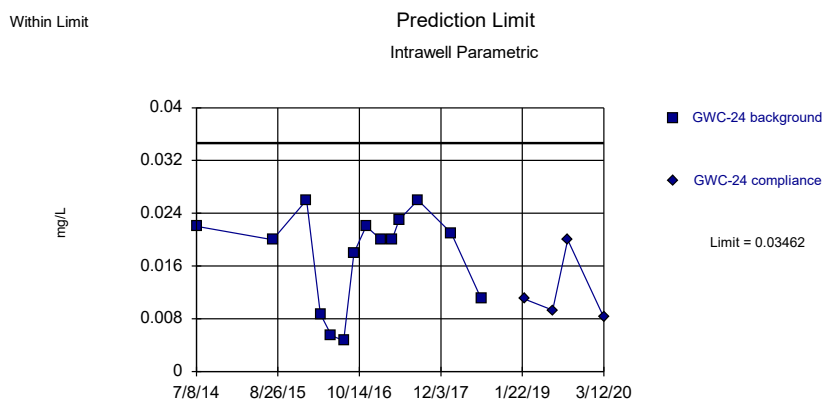
Background Data Summary: Mean=0.02545, Std. Dev.=0.001829, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill



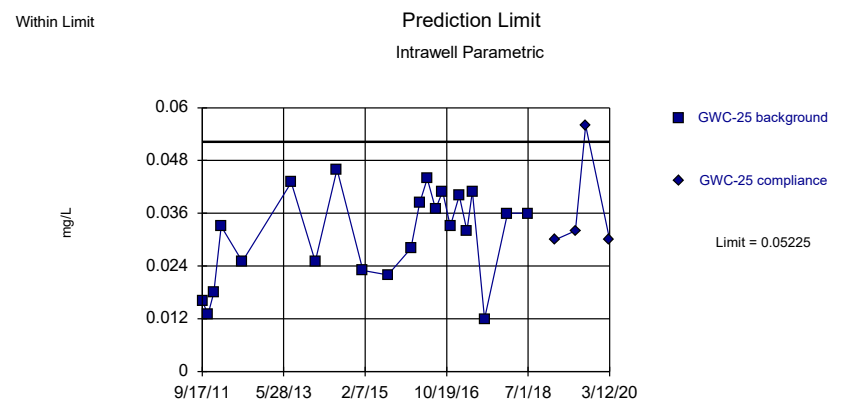
Background Data Summary: Mean=0.006647, Std. Dev.=0.002215, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill



Background Data Summary: Mean=0.01771, Std. Dev.=0.0072, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8591, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill



Background Data Summary: Mean=0.03101, Std. Dev.=0.0104, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:33 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	0.025	
10/29/2011	0.024	
12/13/2011	0.027	
1/25/2012	0.029	
7/18/2012	0.027	
1/22/2013	0.029	
7/16/2013	0.025	
1/21/2014	0.027	
6/25/2014	0.025	
1/14/2015	0.025	
7/23/2015	0.025	
1/26/2016	0.023	
3/31/2016	0.0249	
5/26/2016	0.0235	
7/26/2016	0.021	
9/20/2016	0.026	
11/17/2016	0.025	
2/3/2017	0.027	
3/28/2017	0.024	
5/3/2017	0.025	
8/8/2017	0.025	
1/25/2018	0.027	
6/20/2018	0.026	
1/24/2019		0.026
6/25/2019		0.026
9/10/2019		0.027
3/18/2020		0.025

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	0.011	
10/29/2011	0.0075	
12/13/2011	0.011	
1/31/2012	0.009	
7/18/2012	0.0076	
1/22/2013	0.0078	
7/23/2013	0.0075	
1/22/2014	0.004	
7/1/2014	0.0066	
1/22/2015	0.0067	
7/29/2015	0.0064	
1/21/2016	0.0055	
3/29/2016	0.0114	
5/25/2016	0.00579 (J)	
7/27/2016	0.0043	
9/20/2016	0.0056	
11/18/2016	0.0043	
2/3/2017	0.005	
3/28/2017	0.0041	
5/4/2017	0.0063	
8/8/2017	0.006	
1/25/2018	0.0048	
6/20/2018	0.0047	
1/25/2019		0.0069
6/26/2019		0.0041 (J)
9/12/2019		0.0053 (J)
3/18/2020		0.0055 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	0.022	
7/31/2015	0.02	
1/20/2016	0.026	
3/30/2016	0.00874 (J)	
5/25/2016	0.00545 (J)	
7/27/2016	0.0047	
9/16/2016	0.018	
11/18/2016	0.022	
2/3/2017	0.02	
3/29/2017	0.02	
5/4/2017	0.023	
8/8/2017	0.026	
1/25/2018	0.021	
6/27/2018	0.011	
1/31/2019		0.011
6/26/2019		0.0093 (J)
9/11/2019		0.02
3/12/2020		0.0082 (J)

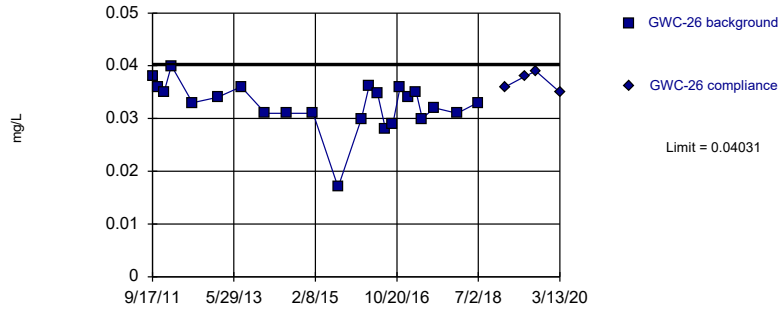
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	0.016	
10/31/2011	0.013	
12/14/2011	0.018	
2/7/2012	0.033	
7/17/2012	0.025	
7/24/2013	0.043	
1/23/2014	0.025	
7/8/2014	0.046	
1/21/2015	0.023	
7/30/2015	0.022	
1/21/2016	0.028	
3/28/2016	0.0383	
5/25/2016	0.0439	
7/27/2016	0.037	
9/19/2016	0.041	
11/15/2016	0.033	
1/24/2017	0.04	
3/23/2017	0.032	
5/2/2017	0.041	
8/3/2017	0.012	
1/25/2018	0.036	
6/27/2018	0.036	
1/24/2019		0.03
6/25/2019		0.032
9/11/2019		0.056
3/12/2020		0.03

Within Limit

Prediction Limit Intrawell Parametric

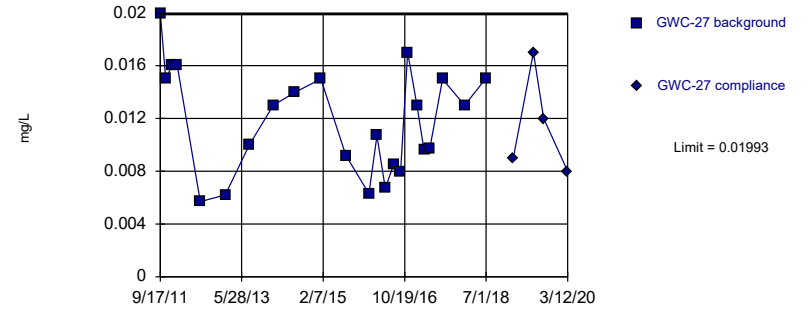


Background Data Summary (based on square transformation): Mean=0.001086, Std. Dev.=0.0002664, n=23.
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9358, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Parametric

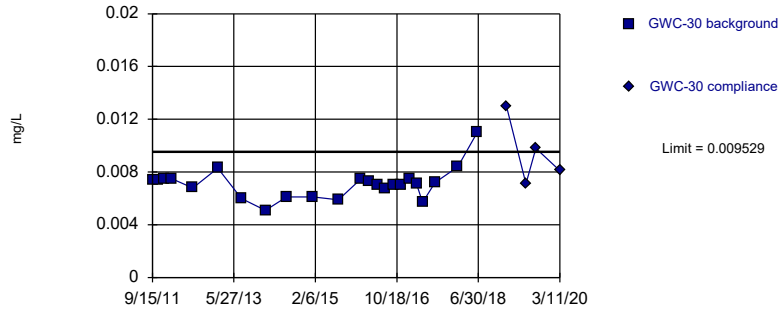


Background Data Summary: Mean=0.01185, Std. Dev.=0.003989, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Parametric



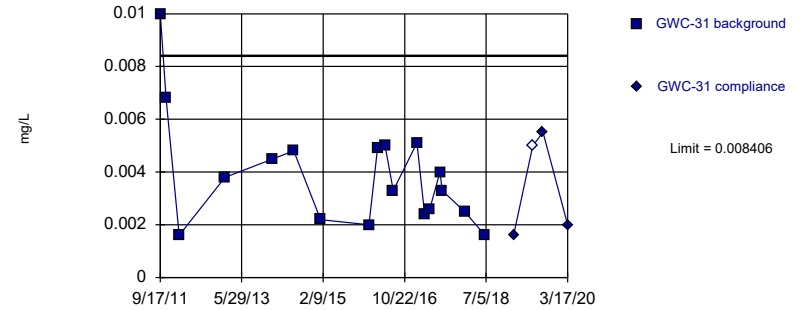
Background Data Summary (based on square root transformation): Mean=0.08407, Std. Dev.=0.006692, n=23.
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=0.003913, Std. Dev.=0.002089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	0.038	
10/29/2011	0.036	
12/14/2011	0.035	
2/7/2012	0.04	
7/17/2012	0.033	
1/24/2013	0.034	
7/24/2013	0.036	
1/23/2014	0.031	
7/8/2014	0.031	
1/21/2015	0.031	
7/31/2015	0.017	
1/25/2016	0.03	
3/24/2016	0.0362	
5/25/2016	0.0348	
7/26/2016	0.028	
9/19/2016	0.029	
11/14/2016	0.036	
1/19/2017	0.034	
3/16/2017	0.035	
5/1/2017	0.03	
8/3/2017	0.032	
1/22/2018	0.031	
6/27/2018	0.033	
1/24/2019		0.036
6/25/2019		0.038
9/12/2019		0.039
3/13/2020		0.035

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	0.02	
10/29/2011	0.015	
12/14/2011	0.016	
1/25/2012	0.016	
7/17/2012	0.0057	
1/24/2013	0.0062	
7/24/2013	0.01	
1/23/2014	0.013	
7/8/2014	0.014	
1/21/2015	0.015	
7/30/2015	0.0092	
1/22/2016	0.0063	
3/23/2016	0.0107	
5/24/2016	0.00672 (J)	
7/26/2016	0.0085	
9/19/2016	0.008	
11/11/2016	0.017	
1/20/2017	0.013	
3/16/2017	0.0096	
4/28/2017	0.0097	
8/3/2017	0.015	
1/19/2018	0.013	
6/27/2018	0.015	
1/24/2019		0.009
6/26/2019		0.017
9/12/2019		0.012
3/12/2020		0.008 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	0.0074	
10/28/2011	0.0074	
12/13/2011	0.0075	
2/8/2012	0.0075	
7/18/2012	0.0068	
1/24/2013	0.0083	
7/24/2013	0.006	
1/23/2014	0.0051	
7/1/2014	0.0061	
1/20/2015	0.0061	
7/30/2015	0.0059	
1/19/2016	0.0075	
3/23/2016	0.00731 (J)	
5/20/2016	0.00703 (J)	
7/21/2016	0.0067	
9/20/2016	0.007	
11/14/2016	0.007	
1/24/2017	0.0075	
3/17/2017	0.0071	
5/1/2017	0.0057	
8/4/2017	0.0072	
1/24/2018	0.0084	
6/21/2018	0.011	
1/30/2019		0.013
6/27/2019		0.0071 (J)
9/10/2019		0.0098 (J)
3/11/2020		0.0081 (J)

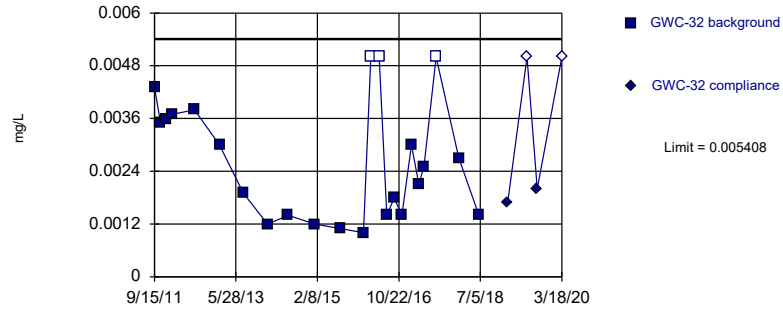
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	0.01	
10/31/2011	0.0068	
2/7/2012	0.0016	
1/23/2013	0.0038	
1/23/2014	0.0045	
7/1/2014	0.0048	
1/21/2015	0.0022	
1/25/2016	0.002	
3/30/2016	0.00491 (J)	
5/25/2016	0.00502 (J)	
7/27/2016	0.0033	
1/25/2017	0.0051	
3/23/2017	0.0024 (J)	
5/2/2017	0.0026	
7/19/2017	0.004	
8/4/2017	0.0033	
1/23/2018	0.0025	
6/27/2018	0.0016 (J)	
1/31/2019		0.0016 (J)
6/26/2019		<0.01
9/11/2019		0.0055 (J)
3/17/2020		0.002 (J)

Within Limit

Prediction Limit
Intrawell Parametric

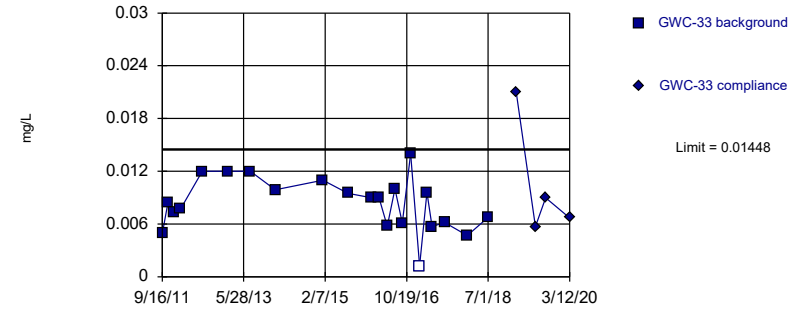


Background Data Summary: Mean=0.002652, Std. Dev.=0.001361, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8981, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

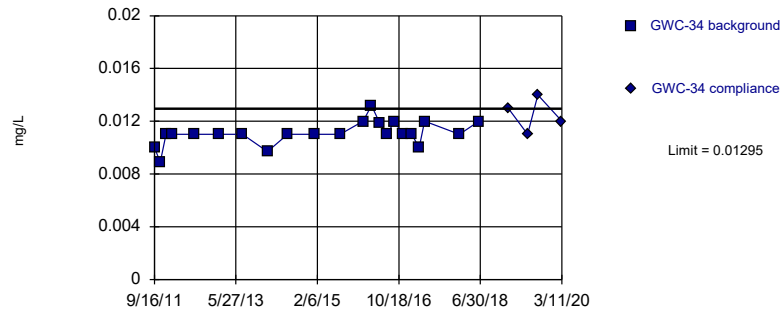


Background Data Summary: Mean=0.008309, Std. Dev.=0.003018, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9796, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

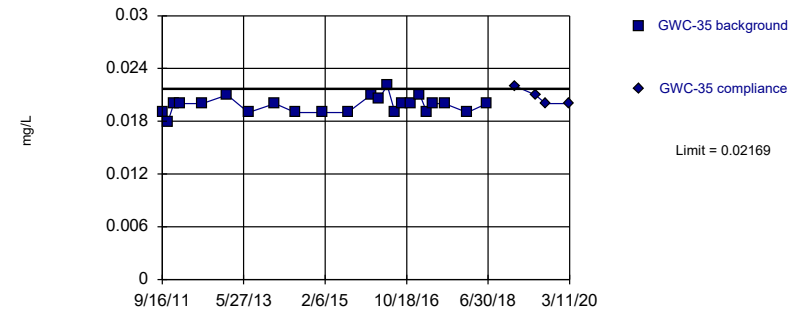


Background Data Summary: Mean=0.01108, Std. Dev.=0.000916, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8839, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01981, Std. Dev.=0.0009285, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9061, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	0.0043	
10/31/2011	0.0035	
12/13/2011	0.0036	
2/1/2012	0.0037	
7/17/2012	0.0038	
1/23/2013	0.003	
7/24/2013	0.0019	
1/23/2014	0.0012 (J)	
7/1/2014	0.0014	
1/20/2015	0.0012 (J)	
7/30/2015	0.0011 (J)	
1/25/2016	0.001 (J)	
3/23/2016	<0.01	
5/24/2016	<0.01	
7/22/2016	0.0014 (J)	
9/16/2016	0.0018 (J)	
11/15/2016	0.0014 (J)	
1/26/2017	0.003	
3/24/2017	0.0021 (J)	
5/2/2017	0.0025	
8/3/2017	<0.01 (*)	
1/23/2018	0.0027	
6/26/2018	0.0014 (J)	
1/30/2019		0.0017 (J)
6/27/2019		<0.01
9/12/2019		0.002 (J)
3/18/2020		<0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	0.0049	
10/30/2011	0.0085	
12/13/2011	0.0073	
2/1/2012	0.0077	
7/17/2012	0.012	
1/23/2013	0.012	
7/17/2013	0.012	
1/23/2014	0.0099	
1/20/2015	0.011	
7/29/2015	0.0095	
1/25/2016	0.009	
3/23/2016	0.00902 (J)	
5/24/2016	0.00573 (J)	
7/22/2016	0.01	
9/16/2016	0.0061	
11/17/2016	0.014	
1/25/2017	<0.0025	
3/23/2017	0.0096	
5/1/2017	0.0057	
8/4/2017	0.0062	
1/23/2018	0.0047	
6/26/2018	0.0067	
1/30/2019		0.021
6/26/2019		0.0057 (J)
9/12/2019		0.009 (J)
3/12/2020		0.0067 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	0.01	
10/31/2011	0.0089	
12/12/2011	0.011	
2/1/2012	0.011	
7/16/2012	0.011	
1/22/2013	0.011	
7/17/2013	0.011	
1/23/2014	0.0097	
6/25/2014	0.011	
1/14/2015	0.011	
7/29/2015	0.011	
1/21/2016	0.012	
3/24/2016	0.0132	
5/23/2016	0.0119	
7/21/2016	0.011	
9/15/2016	0.012	
11/15/2016	0.011	
1/25/2017	0.011	
3/22/2017	0.01	
5/1/2017	0.012	
8/3/2017	0.031 (O)	
1/23/2018	0.011	
6/20/2018	0.012	
1/28/2019		0.013
6/26/2019		0.011
9/11/2019		0.014
3/11/2020		0.012

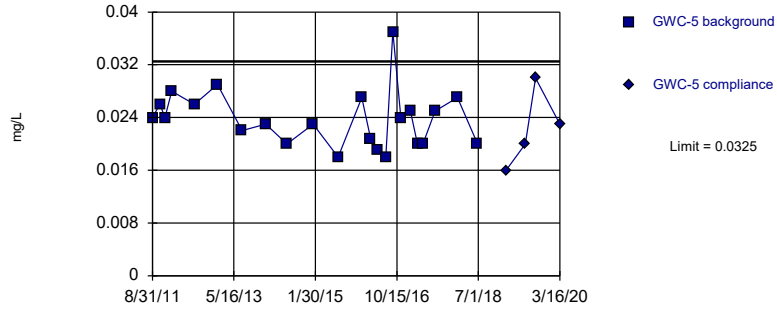
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	0.019	
10/31/2011	0.018	
12/12/2011	0.02	
2/1/2012	0.02	
7/16/2012	0.02	
1/22/2013	0.021	
7/2/2013	0.019	
1/21/2014	0.02	
6/25/2014	0.019	
1/14/2015	0.019	
7/28/2015	0.019	
1/21/2016	0.021	
3/24/2016	0.0206	
5/23/2016	0.0221	
7/21/2016	0.019	
9/15/2016	0.02	
11/15/2016	0.02	
1/26/2017	0.021	
3/22/2017	0.019	
5/2/2017	0.02	
8/3/2017	0.02	
1/23/2018	0.019	
6/19/2018	0.02	
1/21/2019		0.022
6/26/2019		0.021
9/12/2019		0.02
3/11/2020		0.02

Within Limit

Prediction Limit
Intrawell Parametric

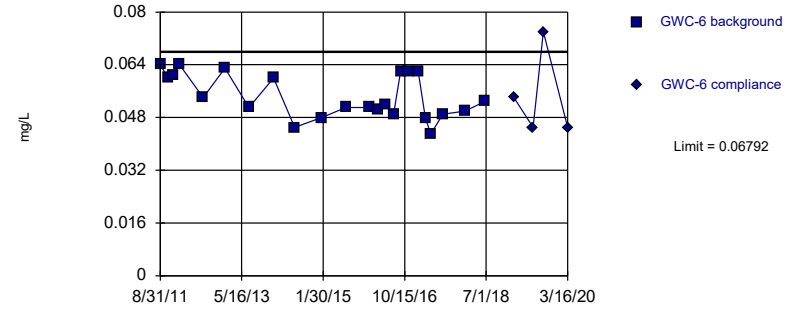


Background Data Summary: Mean=0.02373, Std. Dev.=0.004334, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

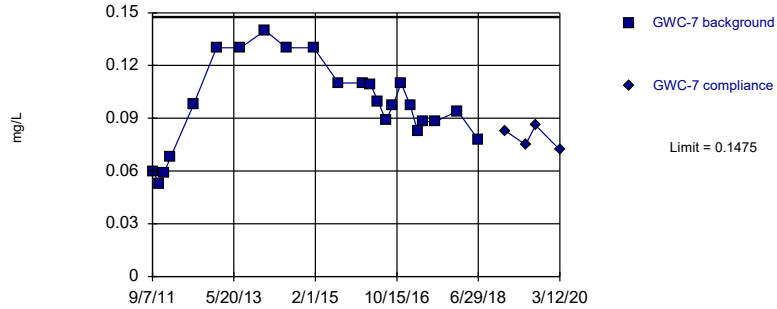


Background Data Summary: Mean=0.05446, Std. Dev.=0.006649, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8995, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

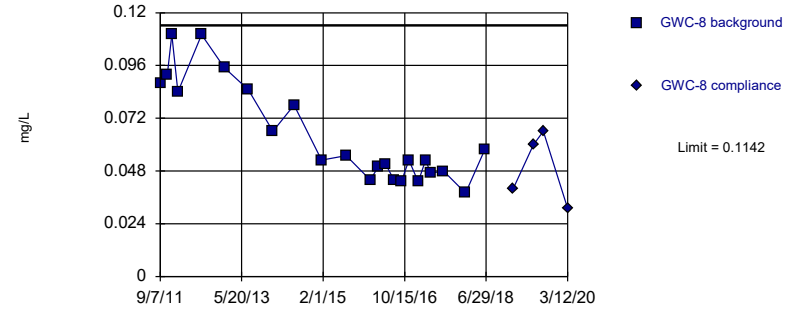


Background Data Summary: Mean=0.09785, Std. Dev.=0.02452, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2509, Std. Dev.=0.04301, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8862, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	0.024	
10/27/2011	0.026	
12/5/2011	0.024	
1/25/2012	0.028	
7/18/2012	0.026	
1/9/2013	0.029	
7/17/2013	0.022	
1/15/2014	0.023	
6/25/2014	0.02	
1/13/2015	0.023	
7/24/2015	0.018	
1/20/2016	0.027	
3/28/2016	0.0207	
5/23/2016	0.0191	
7/21/2016	0.018	
9/15/2016	0.037	
11/15/2016	0.024	
1/26/2017	0.025	
3/22/2017	0.02	
5/2/2017	0.02	
8/3/2017	0.025	
1/23/2018	0.027	
6/25/2018	0.02	
1/30/2019		0.016
6/26/2019		0.02
9/12/2019		0.03
3/16/2020		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	0.064	
10/30/2011	0.06	
12/5/2011	0.061	
1/25/2012	0.064	
7/24/2012	0.054	
1/8/2013	0.063	
7/9/2013	0.051	
1/15/2014	0.06	
6/25/2014	0.045	
1/20/2015	0.048	
7/24/2015	0.051	
1/20/2016	0.051	
3/28/2016	0.0506	
5/24/2016	0.052	
7/21/2016	0.049	
9/15/2016	0.062	
11/16/2016	0.062	
1/26/2017	0.062	
3/22/2017	0.048	
5/2/2017	0.043	
8/3/2017	0.049	
1/23/2018	0.05	
6/25/2018	0.053	
1/30/2019		0.054
6/26/2019		0.045
9/12/2019		0.074
3/16/2020		0.045

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	0.06	
10/30/2011	0.053	
12/5/2011	0.059	
1/25/2012	0.068	
7/18/2012	0.098	
1/7/2013	0.13	
7/9/2013	0.13	
1/14/2014	0.14	
6/24/2014	0.13	
1/20/2015	0.13	
7/27/2015	0.11	
1/26/2016	0.11	
3/29/2016	0.109	
5/24/2016	0.0996	
7/22/2016	0.089	
9/15/2016	0.097	
11/16/2016	0.11	
1/26/2017	0.097	
3/22/2017	0.083	
5/2/2017	0.088	
8/4/2017	0.088	
1/23/2018	0.094	
6/25/2018	0.078	
1/21/2019		0.083
6/25/2019		0.075
9/10/2019		0.086
3/12/2020		0.072

Prediction Limit

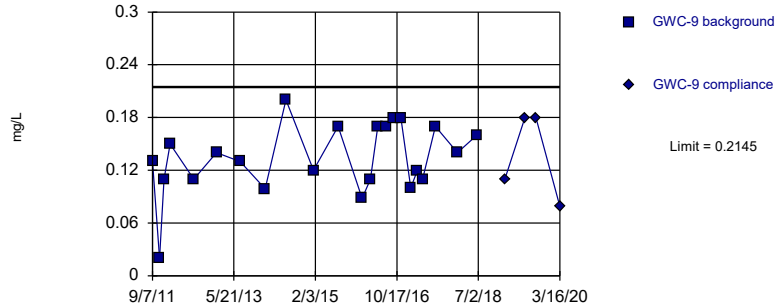
Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	0.088	
10/30/2011	0.092	
12/5/2011	0.11	
1/19/2012	0.084	
7/18/2012	0.11	
1/7/2013	0.095	
7/9/2013	0.085	
1/14/2014	0.066	
6/24/2014	0.078	
1/20/2015	0.053	
7/27/2015	0.055	
1/26/2016	0.044	
3/29/2016	0.05	
5/24/2016	0.051	
7/26/2016	0.044	
9/19/2016	0.043	
11/16/2016	0.053	
1/26/2017	0.043	
3/23/2017	0.053	
5/3/2017	0.047	
8/7/2017	0.048	
1/24/2018	0.038	
6/21/2018	0.058	
1/22/2019		0.04
6/25/2019		0.06
9/10/2019		0.066
3/12/2020		0.031

Within Limit

Prediction Limit
Intrawell Parametric

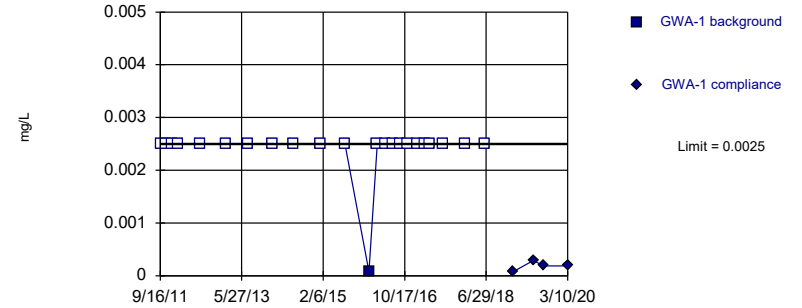


Background Data Summary: Mean=0.1338, Std. Dev.=0.03988, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Barium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

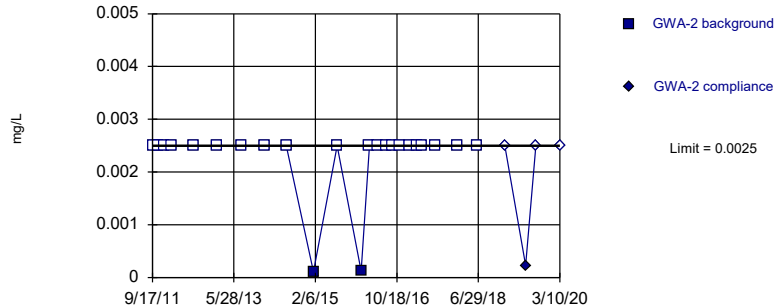


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

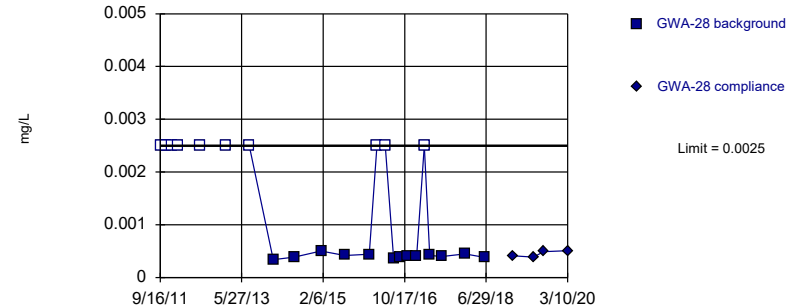


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

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. 43.48% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	0.13	
10/30/2011	0.02	
12/4/2011	0.11	
1/19/2012	0.15	
7/18/2012	0.11	
1/8/2013	0.14	
7/9/2013	0.13	
1/14/2014	0.099	
6/24/2014	0.2	
1/20/2015	0.12	
7/27/2015	0.17	
1/26/2016	0.088	
3/29/2016	0.11	
5/24/2016	0.17	
7/25/2016	0.17	
9/19/2016	0.18	
11/16/2016	0.18	
1/31/2017	0.1	
3/23/2017	0.12	
5/2/2017	0.11	
8/7/2017	0.17	
1/24/2018	0.14	
6/21/2018	0.16	
1/22/2019		0.11
6/25/2019		0.18
9/16/2019		0.18
3/16/2020		0.079

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0025	
10/27/2011	<0.0025	
12/13/2011	<0.0025	
1/31/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/17/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/21/2015	<0.0025	
1/21/2016	7.5E-05 (J)	
3/23/2016	<0.0025	
5/20/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/11/2016	<0.0025	
1/19/2017	<0.0025	
3/16/2017	<0.0025	
4/28/2017	<0.0025	
8/3/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/17/2019		7.4E-05 (J)
6/24/2019		0.00029 (J)
9/9/2019		0.00019 (J)
3/10/2020		0.00019 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.0025	
10/27/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/23/2012	<0.0025	
1/23/2013	<0.0025	
7/24/2013	<0.0025	
1/22/2014	<0.0025	
7/1/2014	<0.0025	
1/22/2015	0.00011 (J)	
7/22/2015	<0.0025	
1/20/2016	0.00012 (J)	
3/23/2016	<0.0025	
5/24/2016	<0.0025	
7/26/2016	<0.0025	
9/16/2016	<0.0025	
11/10/2016	<0.0025	
1/19/2017	<0.0025	
3/17/2017	<0.0025	
4/28/2017	<0.0025	
8/2/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/17/2019		<0.0025
6/24/2019		0.00023 (J)
9/10/2019		<0.0025
3/10/2020		<0.0025

Prediction Limit

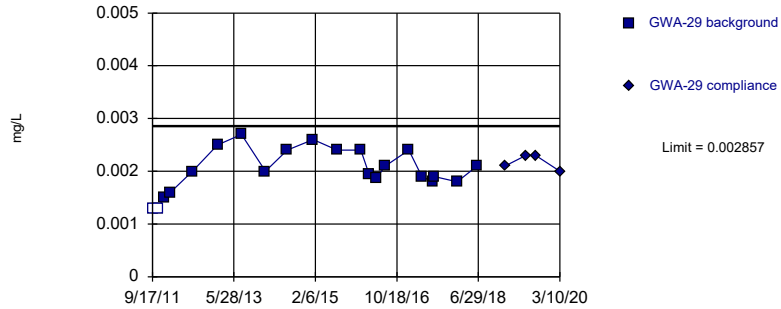
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.0025	
10/28/2011	<0.0025	
12/12/2011	<0.0025	
1/25/2012	<0.0025	
7/16/2012	<0.0025	
1/24/2013	<0.0025	
7/23/2013	<0.0025	
1/22/2014	0.00034 (J)	
7/1/2014	0.00039 (J)	
1/21/2015	0.0005 (J)	
7/21/2015	0.00042 (J)	
1/22/2016	0.00044 (J)	
3/22/2016	<0.0025	
5/23/2016	<0.0025	
7/25/2016	0.00037 (J)	
9/15/2016	0.00039 (J)	
11/9/2016	0.00041 (J)	
1/17/2017	0.0004 (J)	
3/16/2017	<0.0025	
4/27/2017	0.00042 (J)	
8/1/2017	0.0004 (J)	
1/19/2018	0.00045 (J)	
6/19/2018	0.00038 (J)	
1/21/2019		0.00041 (J)
6/25/2019		0.00039 (J)
9/10/2019		0.00049 (J)
3/10/2020		0.00051 (J)

Within Limit

Prediction Limit
Intrawell Parametric

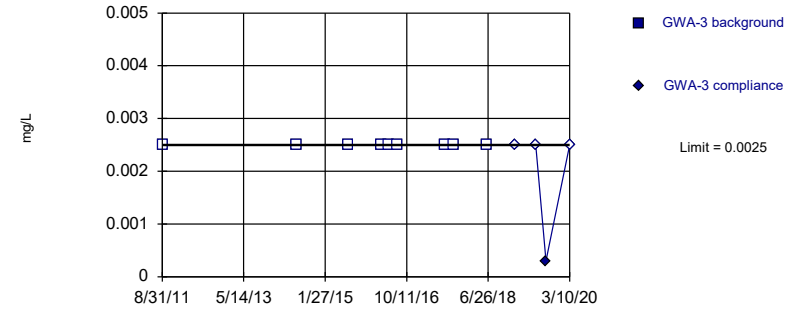


Background Data Summary: Mean=0.002025, Std. Dev.=0.0004034, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

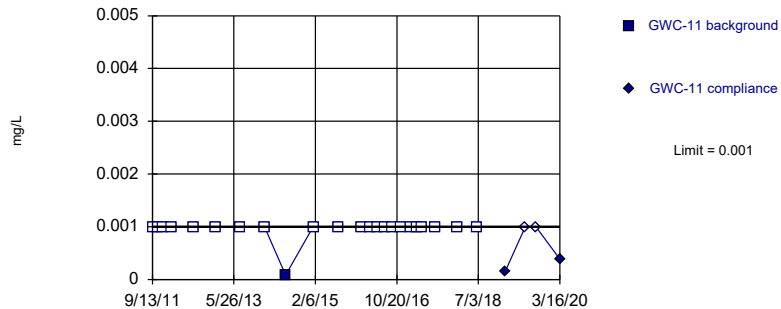


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

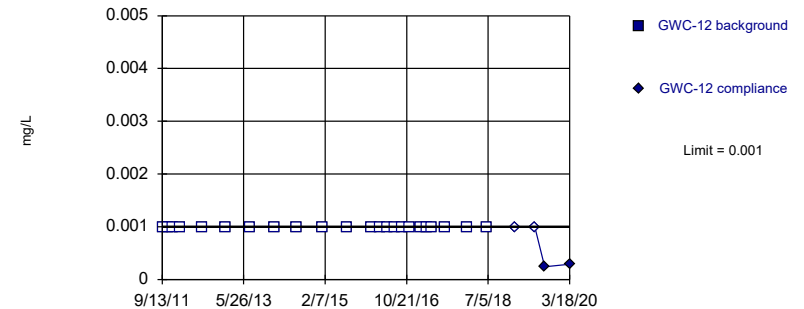


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.0013	
10/28/2011	<0.0013	
12/12/2011	0.0015	
1/31/2012	0.0016	
7/17/2012	0.002	
1/24/2013	0.0025	
7/24/2013	0.0027	
1/22/2014	0.002	
7/8/2014	0.0024 (D)	
1/21/2015	0.0026	
7/22/2015	0.0024	
1/19/2016	0.0024 (D)	
3/22/2016	0.00194 (J)	
5/19/2016	0.00188 (J)	
7/21/2016	0.0021 (J)	
1/17/2017	0.0024 (J)	
4/27/2017	0.0019 (J)	
7/18/2017	0.0018 (J)	
8/1/2017	0.0019 (J)	
1/19/2018	0.0018 (J)	
6/19/2018	0.0021 (J)	
1/18/2019		0.0021 (J)
6/25/2019		0.0023
9/10/2019		0.0023
3/10/2020		0.002 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.0025	
6/25/2014	<0.0025	
7/21/2015	<0.0025	
3/31/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
8/1/2017	<0.0025	
10/3/2017	<0.0025	
6/20/2018	<0.0025	
1/18/2019		<0.0025
6/25/2019		<0.0025
9/11/2019		0.0003 (J)
3/10/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	8.3E-05 (J)	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		0.00015 (J)
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00039 (J)

Prediction Limit

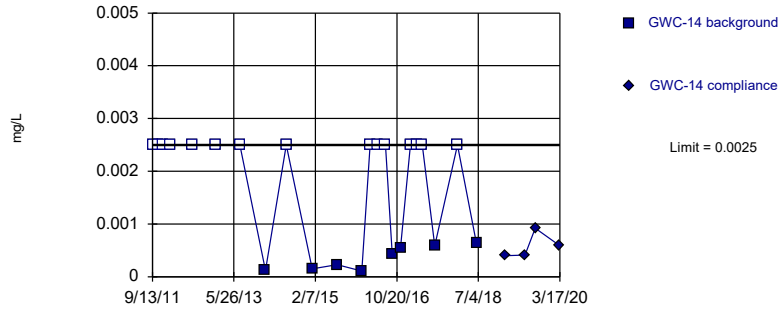
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/22/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/11/2019		0.00024 (J)
3/18/2020		0.00029 (J)

Within Limit

Prediction Limit
 Intrawell Non-parametric

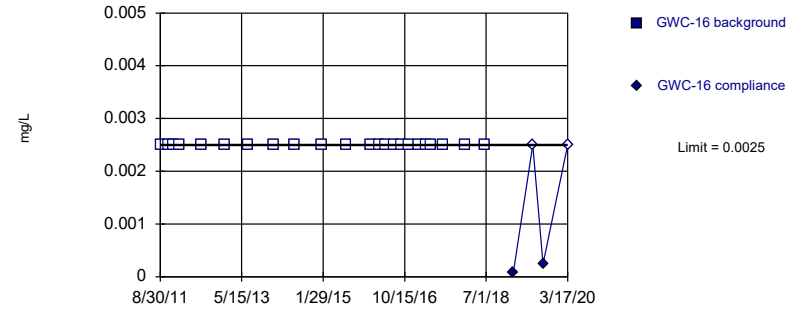


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 65.22% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

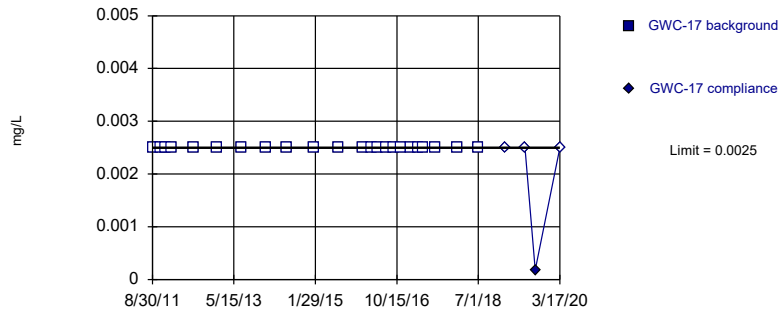


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

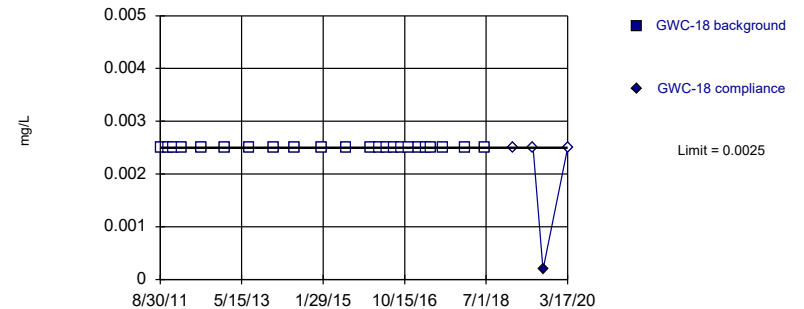


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
 Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.0025	
10/27/2011	<0.0025	
12/3/2011	<0.0025	
1/24/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/10/2013	<0.0025	
1/21/2014	0.00012 (J)	
7/1/2014	<0.0025	
1/14/2015	0.00015 (J)	
7/22/2015	0.00023 (J)	
1/27/2016	0.00011 (J)	
3/30/2016	<0.0025	
5/25/2016	<0.0025	
7/26/2016	<0.0025	
9/15/2016	0.00044 (J)	
11/17/2016	0.00055 (J)	
2/1/2017	<0.0025	
3/23/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	0.00059 (J)	
1/25/2018	<0.0025	
6/20/2018	0.00064 (J)	
1/22/2019		0.0004 (J)
6/25/2019		0.00041 (J)
9/12/2019		0.00092 (J)
3/17/2020		0.00059 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
1/25/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/2/2013	<0.0025	
1/14/2014	<0.0025	
6/25/2014	<0.0025	
1/13/2015	<0.0025	
7/22/2015	<0.0025	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/16/2016	<0.0025	
11/17/2016	<0.0025	
2/1/2017	<0.0025	
3/24/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/20/2018	<0.0025	
1/25/2019		7.2E-05 (J)
6/25/2019		<0.0025
9/11/2019		0.00024 (J)
3/17/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
1/25/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/14/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/28/2015	<0.0025	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/19/2016	<0.0025	
11/17/2016	<0.0025	
2/1/2017	<0.0025	
3/24/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/26/2018	<0.0025	
1/24/2019		<0.0025
6/25/2019		<0.0025
9/11/2019		0.00018 (J)
3/17/2020		<0.0025

Prediction Limit

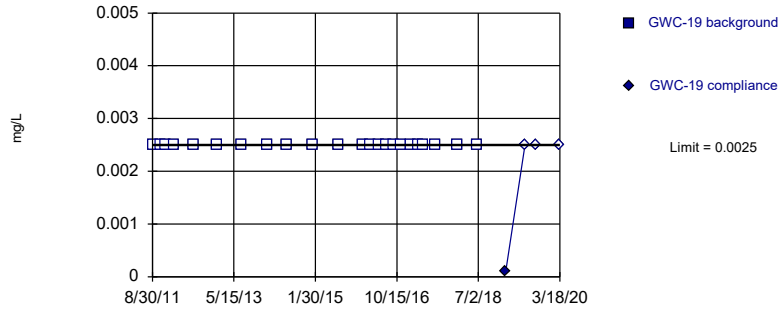
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
2/9/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/14/2014	<0.0025	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/25/2016	<0.0025	
9/19/2016	<0.0025	
11/17/2016	<0.0025	
2/1/2017	<0.0025	
3/24/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/21/2018	<0.0025	
1/28/2019		<0.0025
6/27/2019		<0.0025
9/11/2019		0.00019 (J)
3/17/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

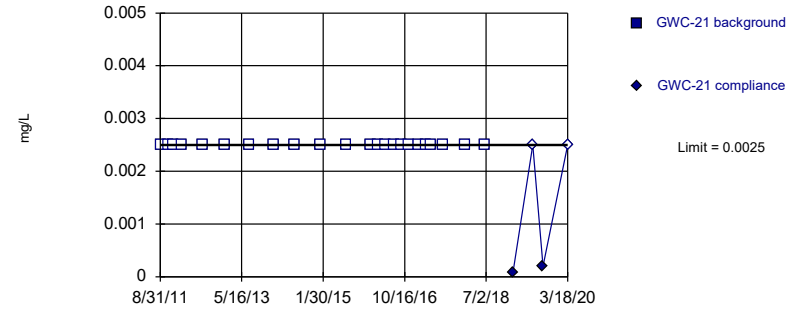


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

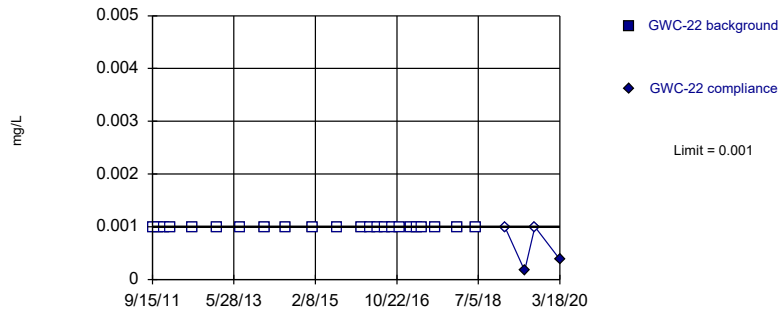


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

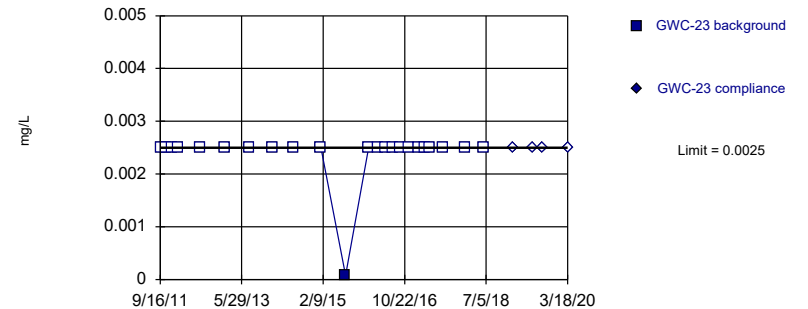


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
2/8/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/25/2016	<0.0025	
9/19/2016	<0.0025	
11/17/2016	<0.0025	
2/2/2017	<0.0025	
3/24/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/21/2018	<0.0025	
1/28/2019		0.00011 (J)
6/26/2019		<0.0025
9/12/2019		<0.0025
3/18/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/4/2011	<0.0025	
2/8/2012	<0.0025	
7/17/2012	<0.0025	
1/9/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/26/2016	<0.0025	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/26/2016	<0.0025	
9/20/2016	<0.0025	
11/17/2016	<0.0025	
2/2/2017	<0.0025	
3/28/2017	<0.0025	
5/4/2017	<0.0025	
8/7/2017	<0.0025	
1/26/2018	<0.0025	
6/20/2018	<0.0025	
1/24/2019		7.9E-05 (J)
6/25/2019		<0.0025
9/11/2019		0.0002 (J)
3/18/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.00017 (J)
9/10/2019		<0.001
3/18/2020		0.00038 (J)

Prediction Limit

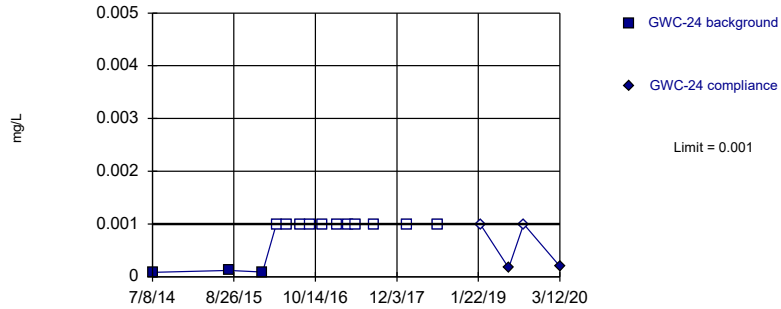
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.0025	
10/29/2011	<0.0025	
12/13/2011	<0.0025	
1/31/2012	<0.0025	
7/18/2012	<0.0025	
1/22/2013	<0.0025	
7/23/2013	<0.0025	
1/22/2014	<0.0025	
7/1/2014	<0.0025	
1/22/2015	<0.0025	
7/29/2015	8E-05 (J)	
1/21/2016	<0.0025	
3/29/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/20/2016	<0.0025	
11/18/2016	<0.0025	
2/3/2017	<0.0025	
3/28/2017	<0.0025	
5/4/2017	<0.0025	
8/8/2017	<0.0025	
1/25/2018	<0.0025	
6/20/2018	<0.0025	
1/25/2019		<0.0025
6/26/2019		<0.0025
9/12/2019		<0.0025
3/18/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

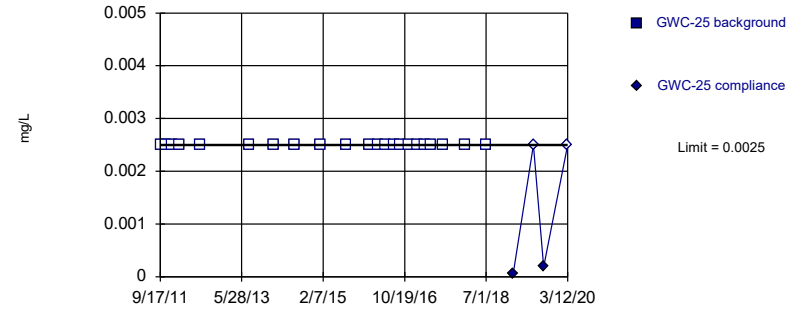


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

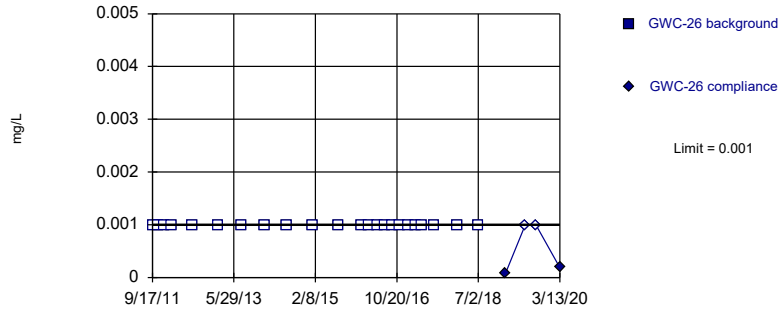


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

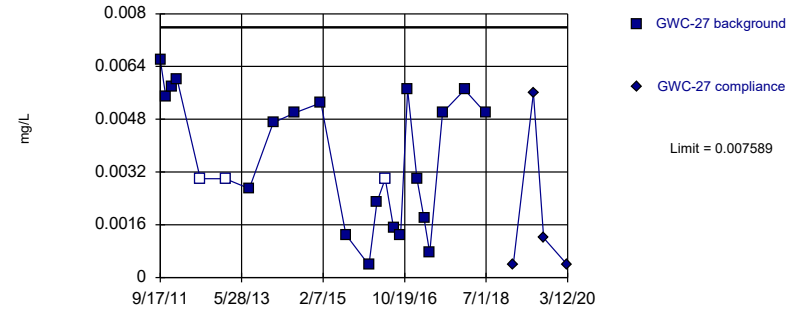


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.003666, Std. Dev.=0.001938, n=23, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9178, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	8.3E-05 (J)	
7/31/2015	0.00012 (J)	
1/20/2016	9.3E-05 (J)	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/16/2016	<0.001	
11/18/2016	<0.001	
2/3/2017	<0.001	
3/29/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		<0.001
6/26/2019		0.00017 (J)
9/11/2019		<0.001
3/12/2020		0.0002 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0025	
10/31/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/30/2015	<0.0025	
1/21/2016	<0.0025	
3/28/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/19/2016	<0.0025	
11/15/2016	<0.0025	
1/24/2017	<0.0025	
3/23/2017	<0.0025	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		6.7E-05 (J)
6/25/2019		<0.0025
9/11/2019		0.00019 (J)
3/12/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/31/2015	<0.001	
1/25/2016	<0.001	
3/24/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/14/2016	<0.001	
1/19/2017	<0.001	
3/16/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/22/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		8.1E-05 (J)
6/25/2019		<0.001
9/12/2019		<0.001
3/13/2020		0.00019 (J)

Prediction Limit

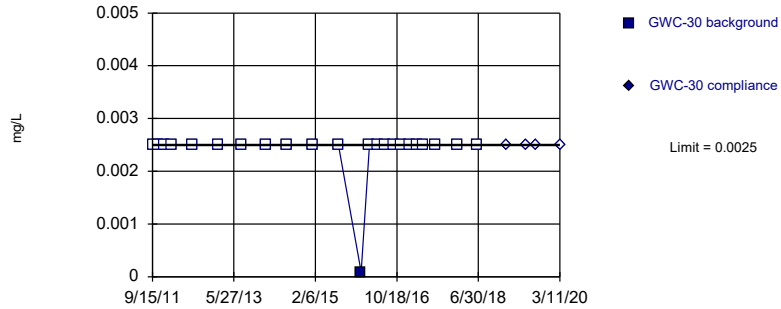
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	0.0066	
10/29/2011	0.0055	
12/14/2011	0.0058	
1/25/2012	0.006	
7/17/2012	<0.003	
1/24/2013	<0.003	
7/24/2013	0.0027	
1/23/2014	0.0047	
7/8/2014	0.005	
1/21/2015	0.0053	
7/30/2015	0.0013	
1/22/2016	0.00038 (J)	
3/23/2016	0.00229 (J)	
5/24/2016	<0.003	
7/26/2016	0.0015 (J)	
9/19/2016	0.0013 (J)	
11/11/2016	0.0057	
1/20/2017	0.003	
3/16/2017	0.0018 (J)	
4/28/2017	0.00075 (J)	
8/3/2017	0.005	
1/19/2018	0.0057	
6/27/2018	0.005	
1/24/2019		0.00039 (J)
6/26/2019		0.0056
9/12/2019		0.0012
3/12/2020		0.00038 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

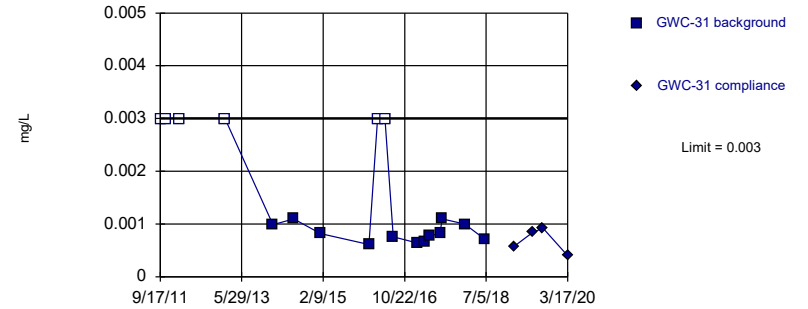


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

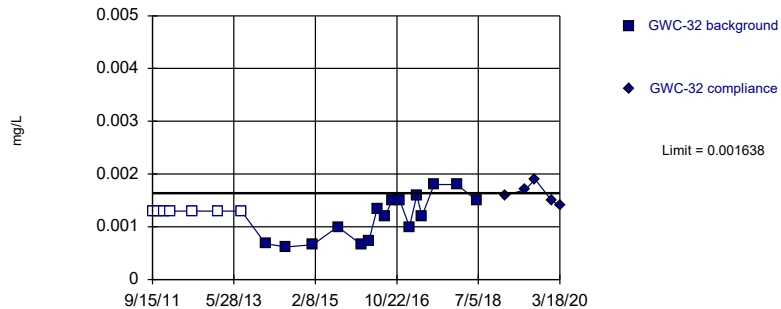


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

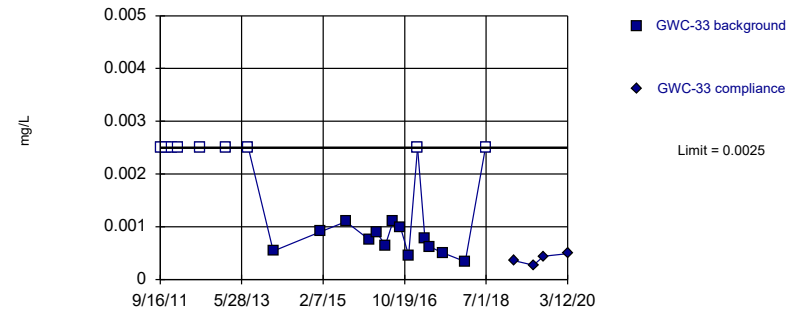


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0009112, Std. Dev.=0.0003589, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9131, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 22 background values. 40.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.0025	
10/28/2011	<0.0025	
12/13/2011	<0.0025	
2/8/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/1/2014	<0.0025	
1/20/2015	<0.0025	
7/30/2015	<0.0025	
1/19/2016	9E-05 (J)	
3/23/2016	<0.0025	
5/20/2016	<0.0025	
7/21/2016	<0.0025	
9/20/2016	<0.0025	
11/14/2016	<0.0025	
1/24/2017	<0.0025	
3/17/2017	<0.0025	
5/1/2017	<0.0025	
8/4/2017	<0.0025	
1/24/2018	<0.0025	
6/21/2018	<0.0025	
1/30/2019		<0.0025
6/27/2019		<0.0025
9/10/2019		<0.0025
3/11/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.003	
10/31/2011	<0.003	
2/7/2012	<0.003	
1/23/2013	<0.003	
1/23/2014	0.00099 (J)	
7/1/2014	0.0011 (J)	
1/21/2015	0.00082 (J)	
1/25/2016	0.00061 (J)	
3/30/2016	<0.003	
5/25/2016	<0.003	
7/27/2016	0.00076 (J)	
1/25/2017	0.00064 (J)	
3/23/2017	0.00067 (J)	
5/2/2017	0.00077 (J)	
7/19/2017	0.00083 (J)	
8/4/2017	0.0011 (J)	
1/23/2018	0.001 (J)	
6/27/2018	0.00071 (J)	
1/31/2019		0.00057 (J)
6/26/2019		0.00084 (J)
9/11/2019		0.00092 (J)
3/17/2020		0.0004 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.0013	
10/31/2011	<0.0013	
12/13/2011	<0.0013	
2/1/2012	<0.0013	
7/17/2012	<0.0013	
1/23/2013	<0.0013	
7/24/2013	<0.0013	
1/23/2014	0.00068 (J)	
7/1/2014	0.00062 (J)	
1/20/2015	0.00066 (J)	
7/30/2015	0.001 (J)	
1/25/2016	0.00066 (J)	
3/23/2016	0.000735 (J)	
5/24/2016	0.00134 (J)	
7/22/2016	0.0012 (J)	
9/16/2016	0.0015 (J)	
11/15/2016	0.0015 (J)	
1/26/2017	0.001 (J)	
3/24/2017	0.0016 (J)	
5/2/2017	0.0012 (J)	
8/3/2017	0.0018 (J)	
1/23/2018	0.0018 (J)	
6/26/2018	0.0015 (J)	
1/30/2019		0.0016 (J)
6/27/2019		0.0017
9/12/2019		0.0019
1/14/2020		0.0015
3/18/2020		0.0014 (J)

Prediction Limit

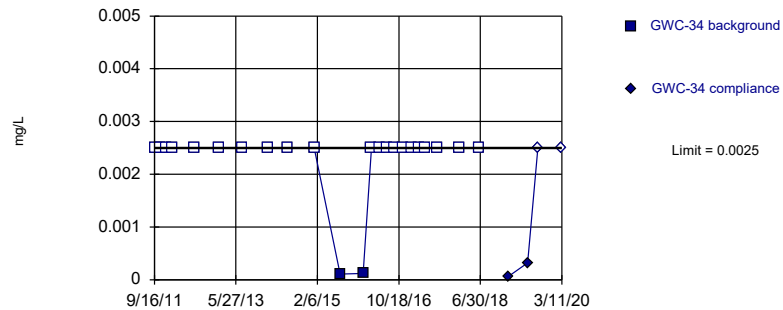
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.0025	
10/30/2011	<0.0025	
12/13/2011	<0.0025	
2/1/2012	<0.0025	
7/17/2012	<0.0025	
1/23/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	0.00054 (J)	
1/20/2015	0.00091 (J)	
7/29/2015	0.0011 (J)	
1/25/2016	0.00075 (J)	
3/23/2016	0.000892 (J)	
5/24/2016	0.00065 (J)	
7/22/2016	0.0011 (J)	
9/16/2016	0.001 (J)	
11/17/2016	0.00046 (J)	
1/25/2017	<0.0025	
3/23/2017	0.00077 (J)	
5/1/2017	0.00062 (J)	
8/4/2017	0.00051 (J)	
1/23/2018	0.00034 (J)	
6/26/2018	<0.0025	
1/30/2019		0.00036 (J)
6/26/2019		0.00027 (J)
9/12/2019		0.00044 (J)
3/12/2020		0.00049 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

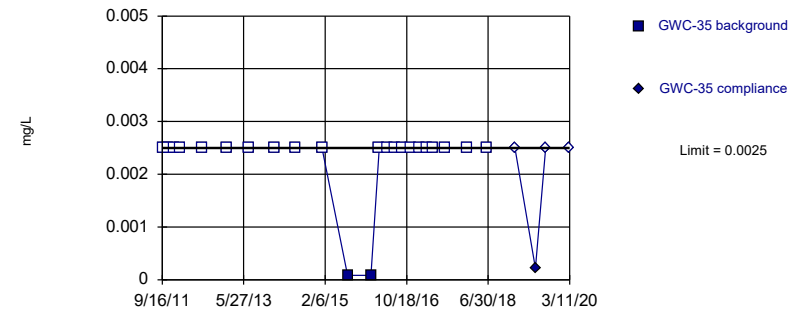


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

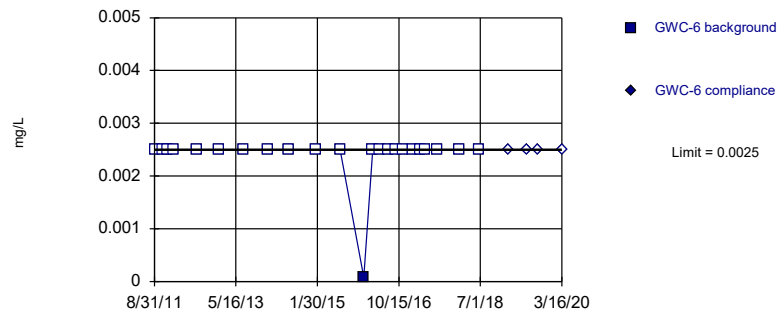


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

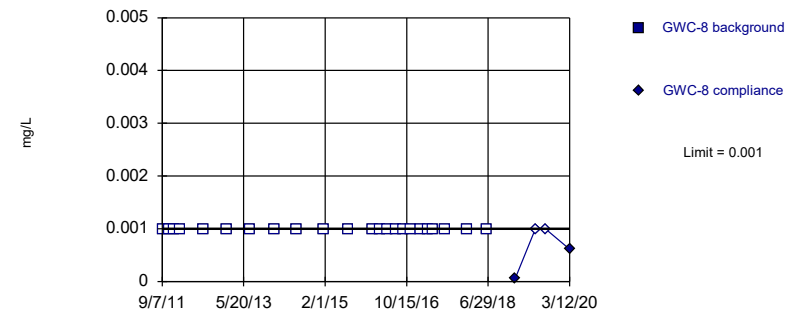


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.0025	
10/31/2011	<0.0025	
12/12/2011	<0.0025	
2/1/2012	<0.0025	
7/16/2012	<0.0025	
1/22/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/29/2015	0.00011 (J)	
1/21/2016	0.00012 (J)	
3/24/2016	<0.0025	
5/23/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/15/2016	<0.0025	
1/25/2017	<0.0025	
3/22/2017	<0.0025	
5/1/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/20/2018	<0.0025	
1/28/2019		6.1E-05 (J)
6/26/2019		0.00032 (J)
9/11/2019		<0.0025
3/11/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.0025	
10/31/2011	<0.0025	
12/12/2011	<0.0025	
2/1/2012	<0.0025	
7/16/2012	<0.0025	
1/22/2013	<0.0025	
7/2/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/28/2015	8.5E-05 (J)	
1/21/2016	8.5E-05 (J)	
3/24/2016	<0.0025	
5/23/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/15/2016	<0.0025	
1/26/2017	<0.0025	
3/22/2017	<0.0025	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/19/2018	<0.0025	
1/21/2019		<0.0025
6/26/2019		0.00022 (J)
9/12/2019		<0.0025
3/11/2020		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/24/2012	<0.0025	
1/8/2013	<0.0025	
7/9/2013	<0.0025	
1/15/2014	<0.0025	
6/25/2014	<0.0025	
1/20/2015	<0.0025	
7/24/2015	<0.0025	
1/20/2016	7.8E-05 (J)	
3/28/2016	<0.0025	
5/24/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/16/2016	<0.0025	
1/26/2017	<0.0025	
3/22/2017	<0.0025	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/25/2018	<0.0025	
1/30/2019		<0.0025
6/26/2019		<0.0025
9/12/2019		<0.0025
3/16/2020		<0.0025

Prediction Limit

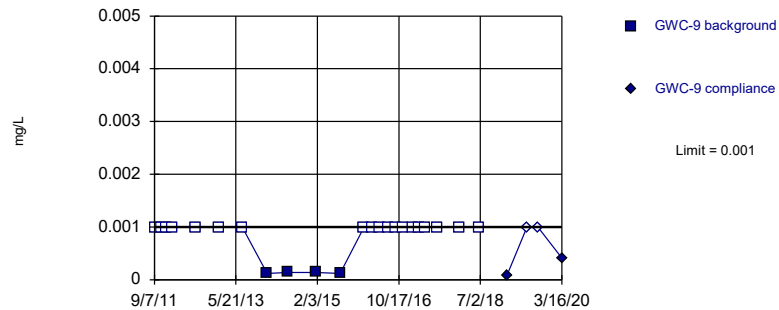
Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/20/2015	<0.001	
7/27/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		5.8E-05 (J)
6/25/2019		<0.001
9/10/2019		<0.001
3/12/2020		0.00061 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

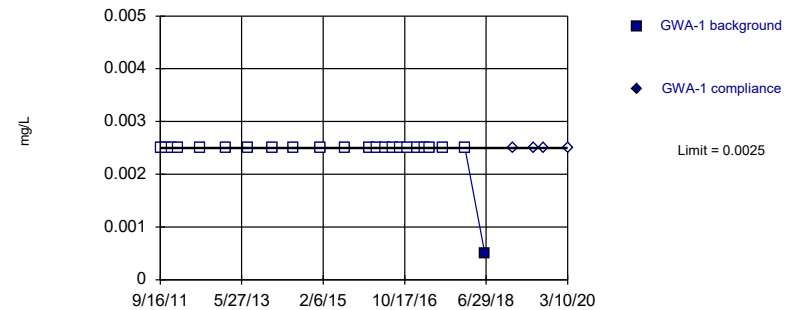


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Beryllium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

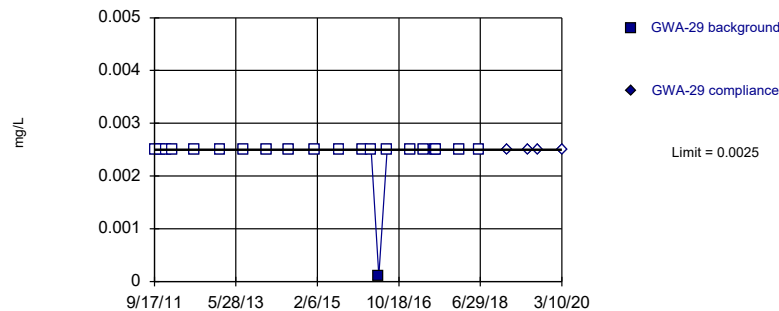


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

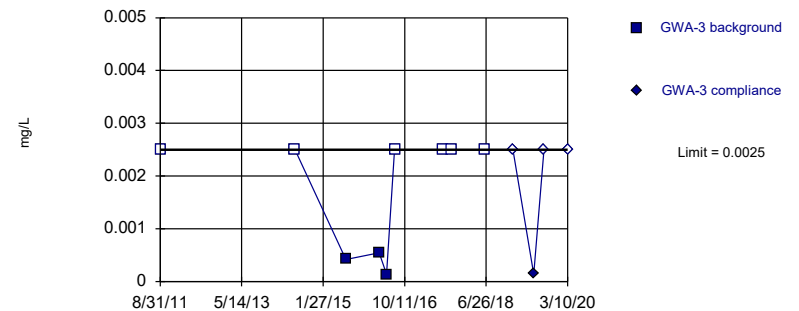


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.001	
10/30/2011	<0.001	
12/4/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	0.00012 (J)	
6/24/2014	0.00014 (J)	
1/20/2015	0.00014 (J)	
7/27/2015	0.00012 (J)	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		7.9E-05 (J)
6/25/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00041 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0025	
10/27/2011	<0.0025	
12/13/2011	<0.0025	
1/31/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/17/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/21/2015	<0.0025	
1/21/2016	<0.0025	
3/23/2016	<0.0025	
5/20/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/11/2016	<0.0025	
1/19/2017	<0.0025	
3/16/2017	<0.0025	
4/28/2017	<0.0025	
8/3/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	0.0005 (J)	
1/17/2019		<0.0025
6/24/2019		<0.0025
9/9/2019		<0.0025
3/10/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.0025	
10/28/2011	<0.0025	
12/12/2011	<0.0025	
1/31/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/22/2014	<0.0025	
7/8/2014	<0.0025 (D)	
1/21/2015	<0.0025	
7/22/2015	<0.0025	
1/19/2016	<0.0025 (D)	
3/22/2016	<0.0025	
5/19/2016	0.000111 (J)	
7/21/2016	<0.0025	
1/17/2017	<0.0025	
4/27/2017	<0.0025	
7/18/2017	<0.0025	
8/1/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/18/2019		<0.0025
6/25/2019		<0.0025
9/10/2019		<0.0025
3/10/2020		<0.0025

Prediction Limit

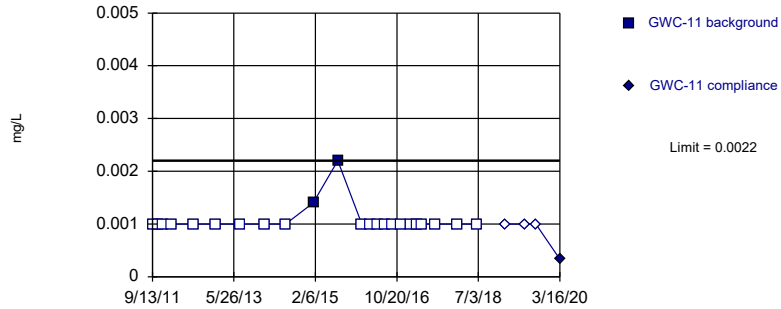
Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.0025	
6/25/2014	<0.0025	
7/21/2015	0.00042 (J)	
3/31/2016	0.000546 (J)	
5/25/2016	0.000137 (J)	
7/27/2016	<0.0025	
8/1/2017	<0.0025	
10/3/2017	<0.0025	
6/20/2018	<0.0025	
1/18/2019		<0.0025
6/25/2019		0.00014 (J)
9/11/2019		<0.0025
3/10/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

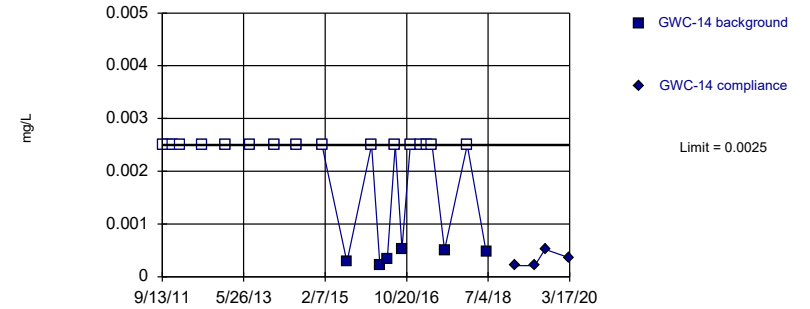


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

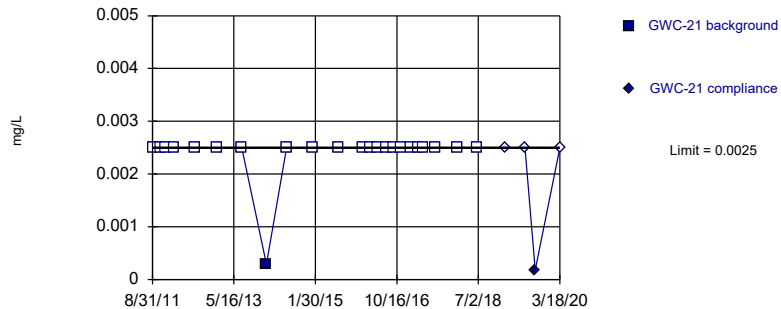


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 73.91% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

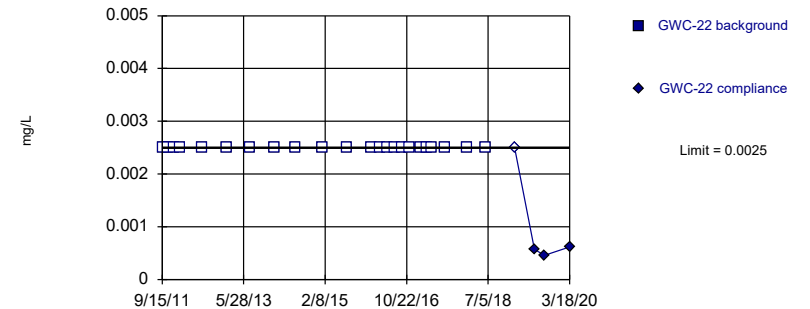


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/21/2015	0.0014	
7/28/2015	0.0022	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00033 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.0025	
10/27/2011	<0.0025	
12/3/2011	<0.0025	
1/24/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/10/2013	<0.0025	
1/21/2014	<0.0025	
7/1/2014	<0.0025	
1/14/2015	<0.0025	
7/22/2015	0.00028 (J)	
1/27/2016	<0.0025	
3/30/2016	0.000222 (J)	
5/25/2016	0.000327 (J)	
7/26/2016	<0.0025	
9/15/2016	0.00053 (J)	
11/17/2016	<0.0025	
2/1/2017	<0.0025	
3/23/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	0.00051 (J)	
1/25/2018	<0.0025	
6/20/2018	0.00047 (J)	
1/22/2019		0.00021 (J)
6/25/2019		0.00021 (J)
9/12/2019		0.00052 (J)
3/17/2020		0.00036 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/4/2011	<0.0025	
2/8/2012	<0.0025	
7/17/2012	<0.0025	
1/9/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	0.00029	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/26/2016	<0.0025	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/26/2016	<0.0025	
9/20/2016	<0.0025	
11/17/2016	<0.0025	
2/2/2017	<0.0025	
3/28/2017	<0.0025	
5/4/2017	<0.0025	
8/7/2017	<0.0025	
1/26/2018	<0.0025	
6/20/2018	<0.0025	
1/24/2019		<0.0025
6/25/2019		<0.0025
9/11/2019		0.00018 (J)
3/18/2020		<0.0025

Prediction Limit

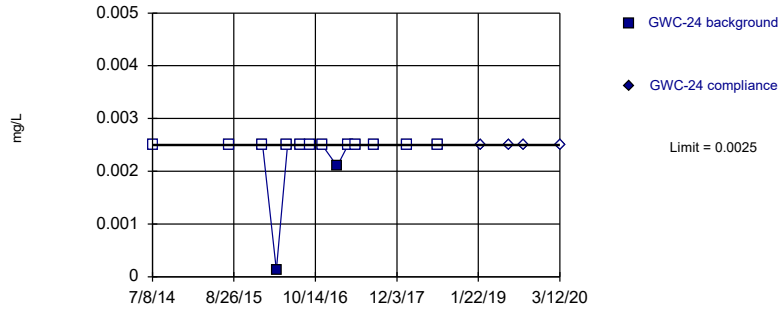
Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.0025	
10/29/2011	<0.0025	
12/13/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	<0.0025	
1/22/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/23/2015	<0.0025	
1/26/2016	<0.0025	
3/31/2016	<0.0025	
5/26/2016	<0.0025	
7/26/2016	<0.0025	
9/20/2016	<0.0025	
11/17/2016	<0.0025	
2/3/2017	<0.0025	
3/28/2017	<0.0025	
5/3/2017	<0.0025	
8/8/2017	<0.0025	
1/25/2018	<0.0025	
6/20/2018	<0.0025	
1/24/2019		<0.0025
6/25/2019		0.00057 (J)
9/10/2019		0.00046 (J)
3/18/2020		0.00062 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

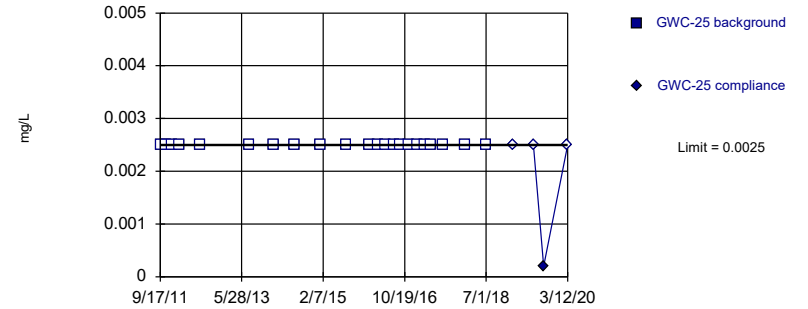


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

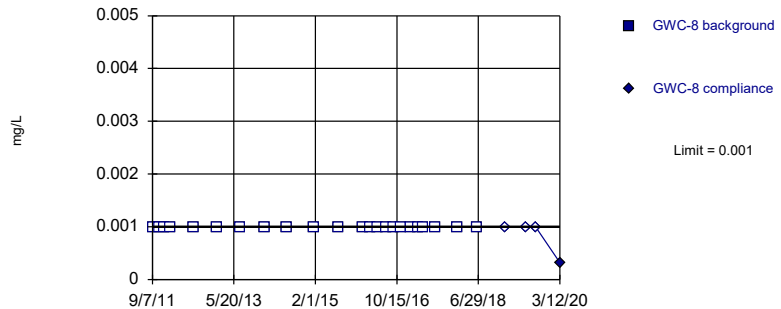


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

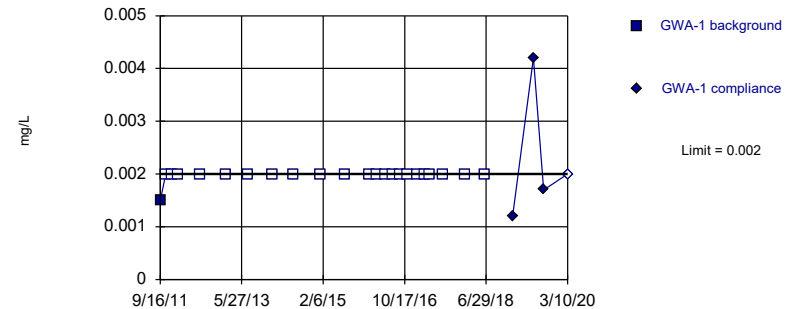


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cadmium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.0025	
7/31/2015	<0.0025	
1/20/2016	<0.0025	
3/30/2016	0.000124 (J)	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/16/2016	<0.0025	
11/18/2016	<0.0025	
2/3/2017	0.0021	
3/29/2017	<0.0025	
5/4/2017	<0.0025	
8/8/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/31/2019		<0.0025
6/26/2019		<0.0025
9/11/2019		<0.0025
3/12/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0025	
10/31/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/30/2015	<0.0025	
1/21/2016	<0.0025	
3/28/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/19/2016	<0.0025	
11/15/2016	<0.0025	
1/24/2017	<0.0025	
3/23/2017	<0.0025	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		<0.0025
6/25/2019		<0.0025
9/11/2019		0.0002 (J)
3/12/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/20/2015	<0.001	
7/27/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/12/2020		0.00032 (J)

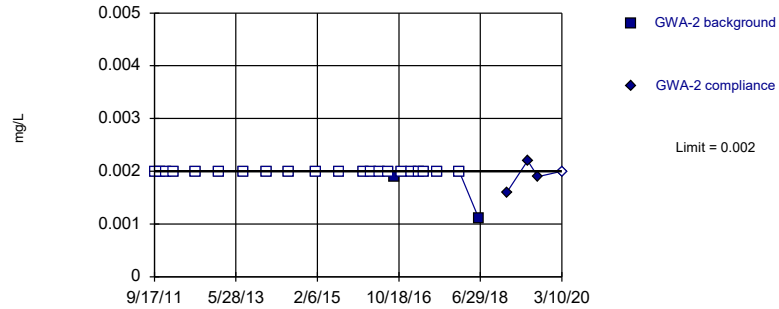
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	0.0015	
10/27/2011	<0.002	
12/13/2011	<0.002	
1/31/2012	<0.002	
7/18/2012	<0.002	
1/24/2013	<0.002	
7/17/2013	<0.002	
1/21/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/21/2015	<0.002	
1/21/2016	<0.002	
3/23/2016	<0.002	
5/20/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/11/2016	<0.002	
1/19/2017	<0.002	
3/16/2017	<0.002	
4/28/2017	<0.002	
8/3/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/17/2019		0.0012 (J)
6/24/2019		0.0042
9/9/2019		0.0017 (J)
3/10/2020		<0.002

Within Limit

Prediction Limit Intrawell Non-parametric

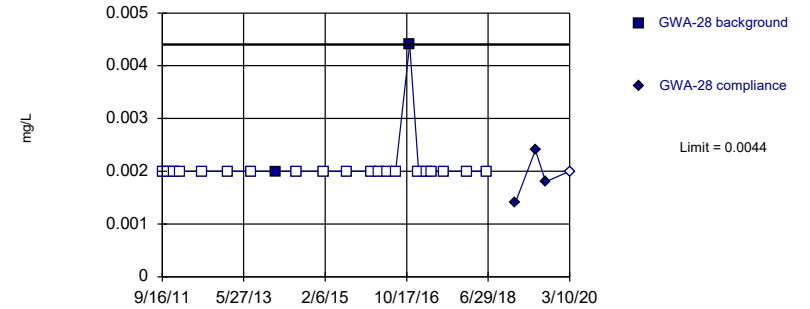


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

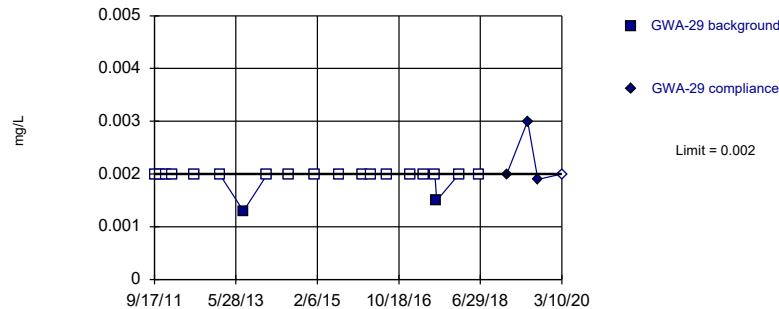


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

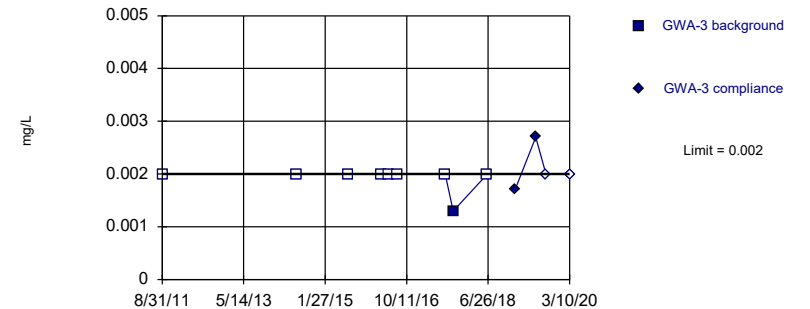


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.002	
10/27/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/23/2012	<0.002	
1/23/2013	<0.002	
7/24/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	<0.002	
1/22/2015	<0.002	
7/22/2015	<0.002	
1/20/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/26/2016	<0.002	
9/16/2016	0.0019 (J)	
11/10/2016	<0.002	
1/19/2017	<0.002	
3/17/2017	<0.002	
4/28/2017	<0.002	
8/2/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	0.0011 (J)	
1/17/2019		0.0016 (J)
6/24/2019		0.0022
9/10/2019		0.0019 (J)
3/10/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.002	
10/28/2011	<0.002	
12/12/2011	<0.002	
1/25/2012	<0.002	
7/16/2012	<0.002	
1/24/2013	<0.002	
7/23/2013	<0.002	
1/22/2014	0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/21/2015	<0.002	
1/22/2016	<0.002	
3/22/2016	<0.002	
5/23/2016	<0.002	
7/25/2016	<0.002	
9/15/2016	0.0082 (O)	
11/9/2016	0.0044	
1/17/2017	<0.002	
3/16/2017	<0.002	
4/27/2017	<0.002	
8/1/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/21/2019		0.0014 (J)
6/25/2019		0.0024
9/10/2019		0.0018 (J)
3/10/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.002	
10/28/2011	<0.002	
12/12/2011	<0.002	
1/31/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	0.0013	
1/22/2014	<0.002	
7/8/2014	<0.002 (D)	
1/21/2015	<0.002	
7/22/2015	<0.002	
1/19/2016	<0.002 (D)	
3/22/2016	<0.002	
5/19/2016	0.00684 (JO)	
7/21/2016	<0.002	
1/17/2017	<0.002	
4/27/2017	<0.002	
7/18/2017	<0.002	
8/1/2017	0.0015 (J)	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/18/2019		0.002 (J)
6/25/2019		0.003
9/10/2019		0.0019 (J)
3/10/2020		<0.002

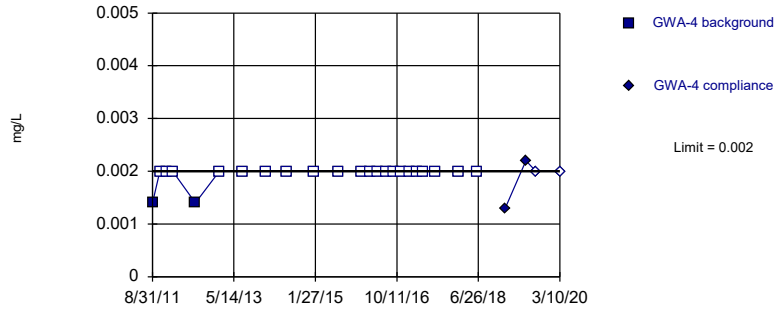
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.002	
6/25/2014	<0.002	
7/21/2015	<0.002	
3/31/2016	<0.002	
5/25/2016	<0.002	
7/27/2016	<0.002	
8/1/2017	<0.002	
10/3/2017	0.0013 (J)	
6/20/2018	<0.002	
1/18/2019		0.0017 (J)
6/25/2019		0.0027
9/11/2019		<0.002
3/10/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

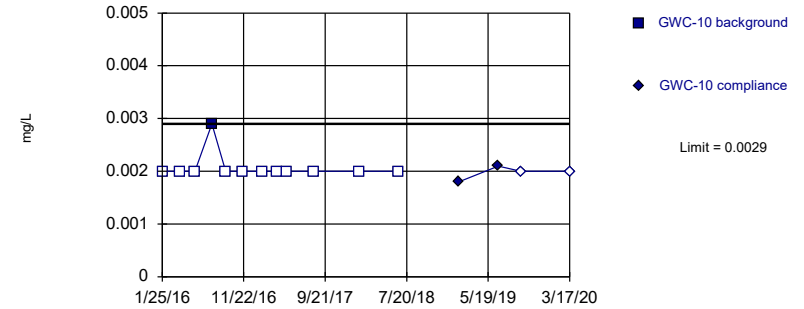


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

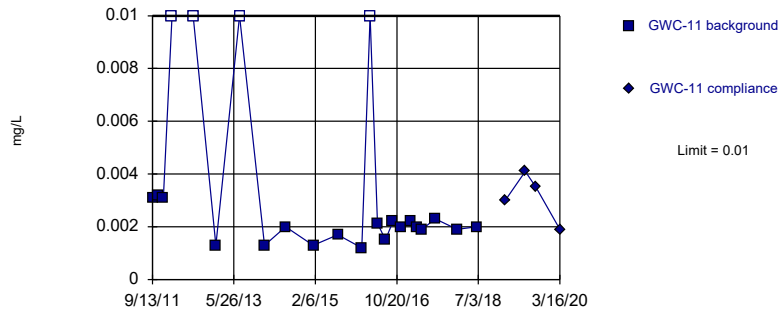


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

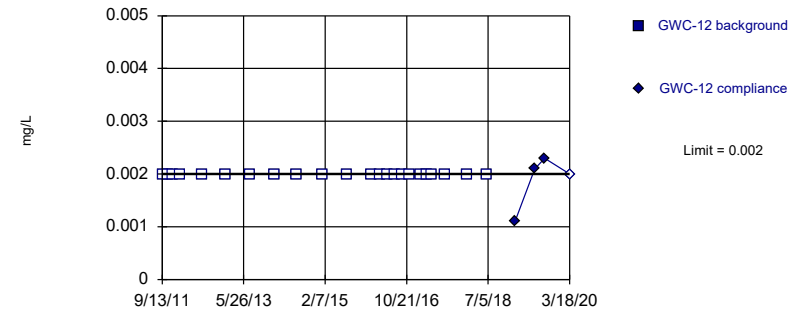


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 17.39% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	0.0014	
10/27/2011	<0.002	
12/14/2011	<0.002	
2/1/2012	<0.002	
7/23/2012	0.0014	
1/23/2013	<0.002	
7/17/2013	<0.002	
1/15/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/21/2015	<0.002	
1/20/2016	<0.002	
3/23/2016	<0.002	
5/19/2016	<0.002	
7/21/2016	<0.002	
9/14/2016	<0.002	
11/10/2016	<0.002	
1/17/2017	<0.002	
3/16/2017	<0.002	
4/27/2017	<0.002	
8/2/2017	<0.002	
1/22/2018	<0.002	
6/19/2018	<0.002	
1/17/2019		0.0013 (J)
6/24/2019		0.0022
9/10/2019		<0.002
3/10/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	<0.002	
7/27/2016	0.0029	
9/16/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/31/2019		0.0018 (J)
6/26/2019		0.0021
9/17/2019		<0.002
3/17/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	0.0031	
10/28/2011	0.0032	
12/4/2011	0.0031	
2/9/2012	<0.01	
7/18/2012	<0.01	
1/8/2013	0.0013	
7/9/2013	<0.01	
1/15/2014	0.0013	
6/25/2014	0.002	
1/21/2015	0.0013	
7/28/2015	0.0017	
1/26/2016	0.0012 (J)	
3/29/2016	<0.01	
5/25/2016	0.00213 (J)	
7/25/2016	0.0015 (J)	
9/19/2016	0.0022 (J)	
11/16/2016	0.002 (JB)	
1/31/2017	0.0022 (J)	
3/23/2017	0.002 (J)	
5/2/2017	0.0019 (J)	
8/7/2017	0.0023 (J)	
1/24/2018	0.0019 (J)	
6/20/2018	0.002 (J)	
1/24/2019		0.003
6/26/2019		0.0041
9/16/2019		0.0035
3/16/2020		0.0019 (J)

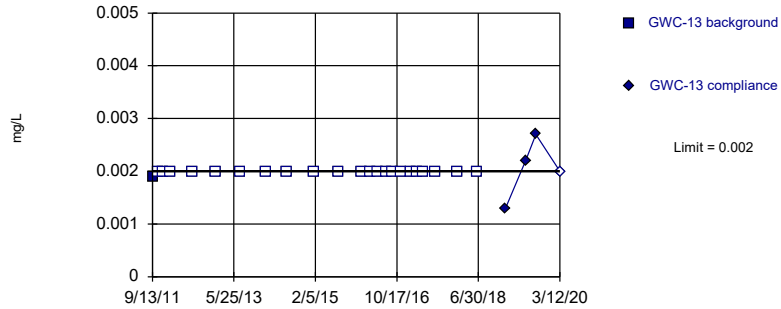
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.002	
10/28/2011	<0.002	
12/4/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/26/2016	<0.002	
3/29/2016	<0.002	
5/25/2016	<0.002	
7/22/2016	<0.002	
9/15/2016	<0.002	
11/16/2016	<0.002	
1/31/2017	<0.002	
3/23/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/26/2018	<0.002	
1/25/2019		0.0011 (J)
6/26/2019		0.0021
9/11/2019		0.0023
3/18/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

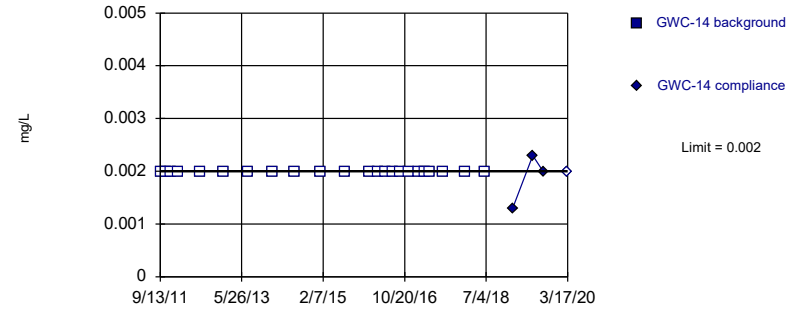


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

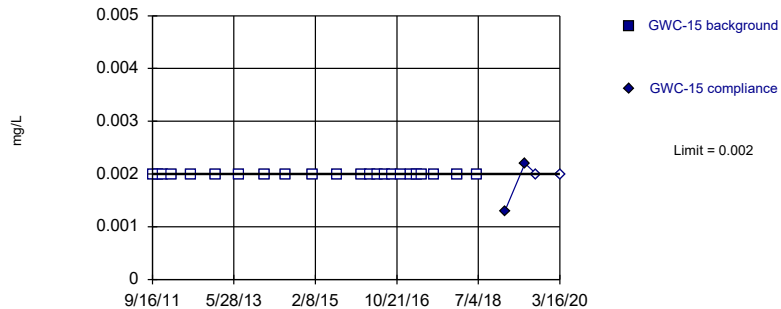


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

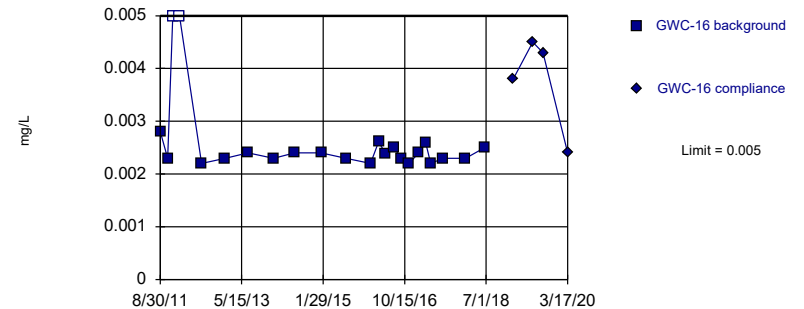


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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. 8.696% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	0.0019	
10/28/2011	<0.002	
12/4/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/27/2016	<0.002	
3/29/2016	<0.002	
5/25/2016	<0.002	
7/26/2016	<0.002	
9/15/2016	<0.002	
11/17/2016	<0.002	
1/31/2017	<0.002	
3/23/2017	<0.002	
5/3/2017	<0.002	
8/4/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		0.0013 (J)
6/25/2019		0.0022
9/12/2019		0.0027
3/12/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.002	
10/27/2011	<0.002	
12/3/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	<0.002	
1/14/2015	<0.002	
7/22/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	<0.002	
7/26/2016	<0.002	
9/15/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/23/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		0.0013 (J)
6/25/2019		0.0023
9/12/2019		0.002
3/17/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.002	
10/27/2011	<0.002	
12/3/2011	<0.002	
2/8/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/2/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/14/2015	<0.002	
7/22/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	<0.002	
7/26/2016	<0.002	
9/20/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/23/2017	<0.002	
5/3/2017	<0.002	
8/4/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		0.0013 (J)
6/25/2019		0.0022
9/17/2019		<0.002
3/16/2020		<0.002

Prediction Limit

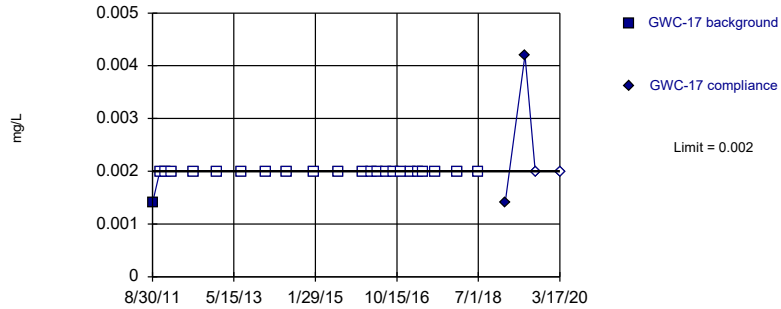
Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	0.0028	
10/26/2011	0.0023	
12/3/2011	<0.005	
1/25/2012	<0.005	
7/11/2012	0.0022	
1/8/2013	0.0023	
7/2/2013	0.0024	
1/14/2014	0.0023	
6/25/2014	0.0024	
1/13/2015	0.0024	
7/22/2015	0.0023	
1/27/2016	0.0022	
3/30/2016	0.00261 (J)	
5/25/2016	0.00238 (J)	
7/27/2016	0.0025	
9/16/2016	0.0023 (J)	
11/17/2016	0.0022 (J)	
2/1/2017	0.0024 (J)	
3/24/2017	0.0026	
5/3/2017	0.0022 (J)	
8/7/2017	0.0023 (J)	
1/25/2018	0.0023 (J)	
6/20/2018	0.0025	
1/25/2019		0.0038
6/25/2019		0.0045
9/11/2019		0.0043
3/17/2020		0.0024

Within Limit

Prediction Limit Intrawell Non-parametric

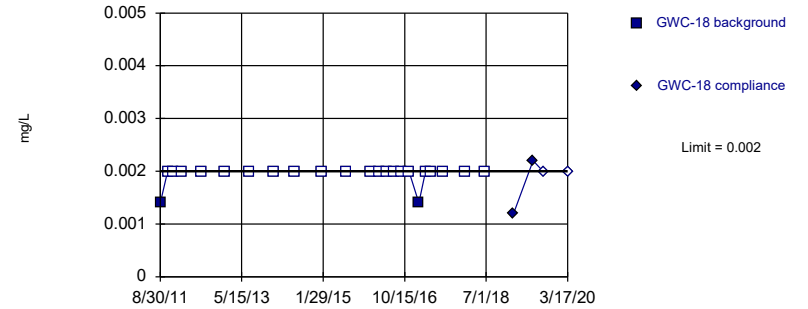


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

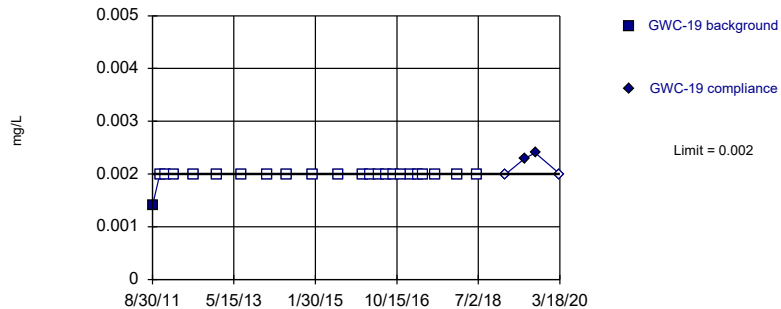


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

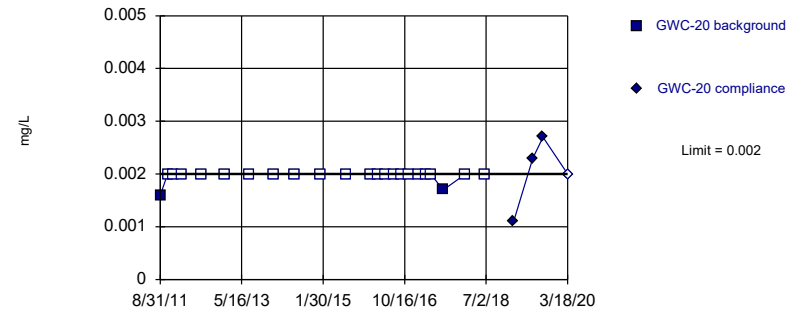


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	0.0014	
10/26/2011	<0.002	
12/3/2011	<0.002	
1/25/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/14/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/28/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	<0.002	
7/27/2016	<0.002	
9/19/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	<0.002	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/26/2018	<0.002	
1/24/2019		0.0014 (J)
6/25/2019		0.0042
9/11/2019		<0.002
3/17/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	0.0014	
10/26/2011	<0.002	
12/3/2011	<0.002	
2/8/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/14/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/26/2016	<0.002	
7/25/2016	<0.002	
9/19/2016	<0.002	
11/17/2016	<0.002	
2/1/2017	0.0014 (J)	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/28/2019		0.0012 (J)
6/27/2019		0.0022
9/11/2019		<0.002
3/17/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	0.0014	
10/26/2011	<0.002	
12/3/2011	<0.002	
2/8/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/26/2016	<0.002	
7/25/2016	<0.002	
9/19/2016	<0.002	
11/17/2016	<0.002	
2/2/2017	<0.002	
3/24/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/28/2019		<0.002
6/26/2019		0.0023
9/12/2019		0.0024
3/18/2020		<0.002

Prediction Limit

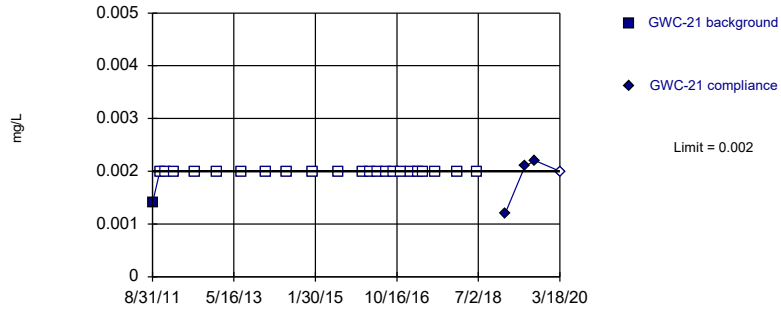
Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	0.0016	
10/27/2011	<0.002	
12/4/2011	<0.002	
2/8/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/27/2016	<0.002	
3/30/2016	<0.002	
5/26/2016	<0.002	
7/25/2016	<0.002	
9/20/2016	<0.002	
11/17/2016	<0.002	
2/2/2017	<0.002	
3/28/2017	<0.002	
5/4/2017	<0.002	
8/7/2017	0.0017 (J)	
1/26/2018	<0.002	
6/21/2018	<0.002	
1/28/2019		0.0011 (J)
6/25/2019		0.0023
9/11/2019		0.0027
3/18/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

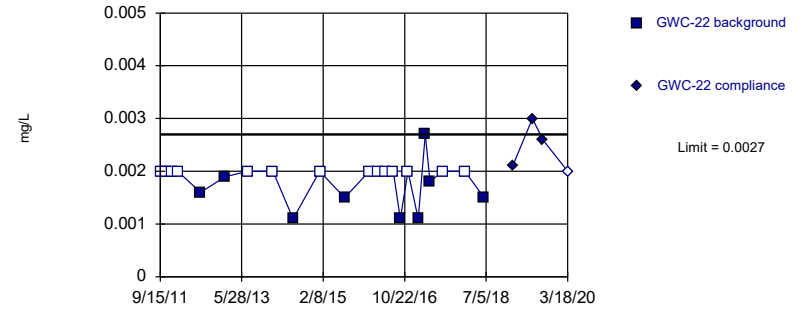


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

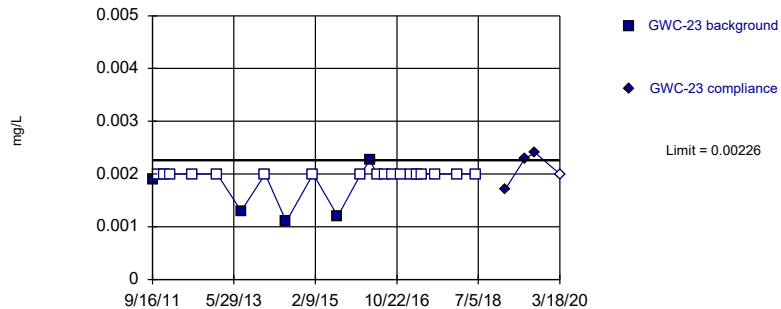


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

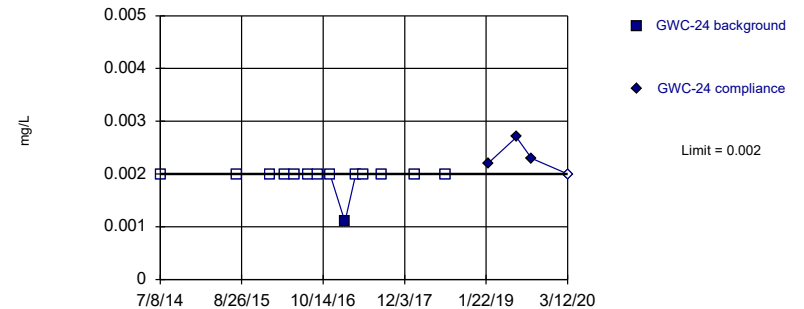


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	0.0014	
10/27/2011	<0.002	
12/4/2011	<0.002	
2/8/2012	<0.002	
7/17/2012	<0.002	
1/9/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/26/2016	<0.002	
3/30/2016	<0.002	
5/26/2016	<0.002	
7/26/2016	<0.002	
9/20/2016	<0.002	
11/17/2016	<0.002	
2/2/2017	<0.002	
3/28/2017	<0.002	
5/4/2017	<0.002	
8/7/2017	<0.002	
1/26/2018	<0.002	
6/20/2018	<0.002	
1/24/2019		0.0012 (J)
6/25/2019		0.0021
9/11/2019		0.0022
3/18/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.002	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	0.0016	
1/22/2013	0.0019	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/25/2014	0.0011 (J)	
1/14/2015	<0.002	
7/23/2015	0.0015	
1/26/2016	<0.002	
3/31/2016	<0.002	
5/26/2016	<0.002	
7/26/2016	<0.002	
9/20/2016	0.0011 (J)	
11/17/2016	<0.002	
2/3/2017	0.0011 (J)	
3/28/2017	0.0027	
5/3/2017	0.0018 (J)	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	0.0015 (J)	
1/24/2019		0.0021 (J)
6/25/2019		0.003
9/10/2019		0.0026
3/18/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	0.0019	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/31/2012	<0.002	
7/18/2012	<0.002	
1/22/2013	<0.002	
7/23/2013	0.0013	
1/22/2014	<0.002	
7/1/2014	0.0011 (J)	
1/22/2015	<0.002	
7/29/2015	0.0012 (J)	
1/21/2016	<0.002	
3/29/2016	0.00226 (J)	
5/25/2016	<0.002	
7/27/2016	<0.002	
9/20/2016	<0.002	
11/18/2016	<0.002	
2/3/2017	<0.002	
3/28/2017	<0.002	
5/4/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/25/2019		0.0017 (J)
6/26/2019		0.0023
9/12/2019		0.0024
3/18/2020		<0.002

Prediction Limit

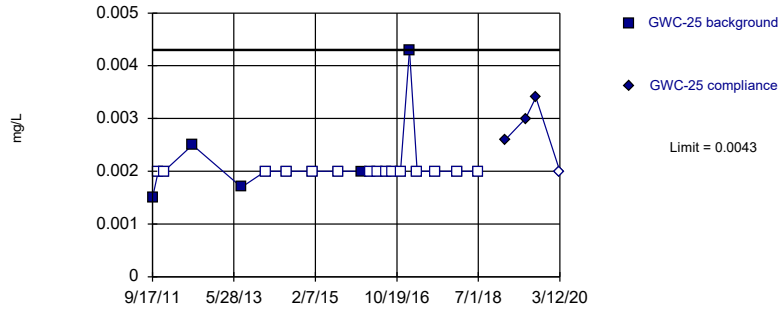
Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.002	
7/31/2015	<0.002	
1/20/2016	<0.002	
3/30/2016	<0.002	
5/25/2016	<0.002	
7/27/2016	<0.002	
9/16/2016	<0.002	
11/18/2016	<0.002	
2/3/2017	0.0011 (J)	
3/29/2017	<0.002	
5/4/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/27/2018	<0.002	
1/31/2019		0.0022 (J)
6/26/2019		0.0027
9/11/2019		0.0023
3/12/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

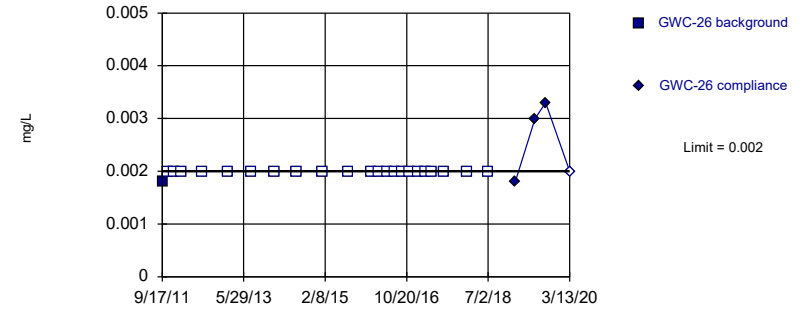


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:34 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

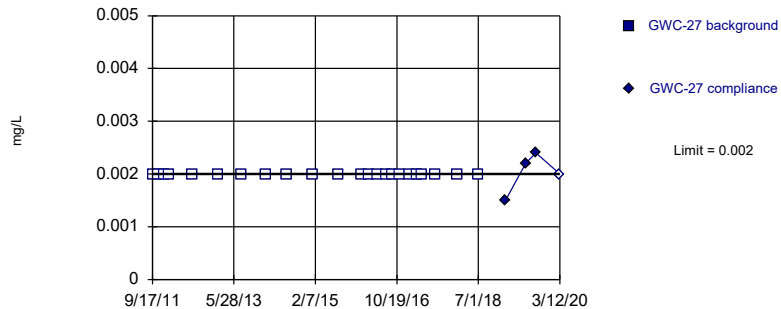


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

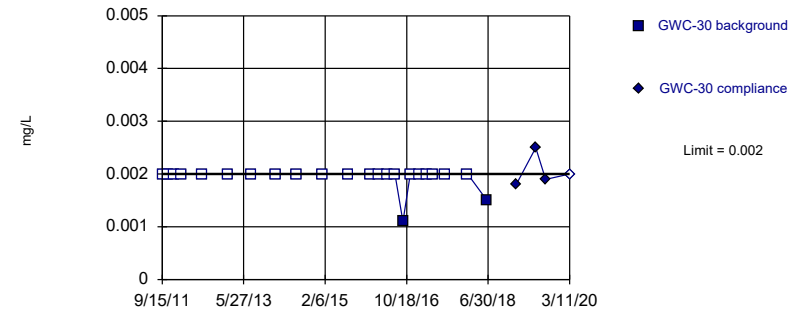


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	0.0015	
10/31/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	0.0065 (O)	
7/17/2012	0.0025	
7/24/2013	0.0017	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/30/2015	<0.002	
1/21/2016	0.002	
3/28/2016	<0.002	
5/25/2016	<0.002	
7/27/2016	<0.002	
9/19/2016	<0.002	
11/15/2016	<0.002	
1/24/2017	0.0043	
3/23/2017	<0.002	
5/2/2017	0.015 (O)	
8/3/2017	<0.002	
1/25/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		0.0026
6/25/2019		0.003
9/11/2019		0.0034
3/12/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	0.0018	
10/29/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/31/2015	<0.002	
1/25/2016	<0.002	
3/24/2016	<0.002	
5/25/2016	<0.002	
7/26/2016	<0.002	
9/19/2016	<0.002	
11/14/2016	<0.002	
1/19/2017	<0.002	
3/16/2017	<0.002	
5/1/2017	<0.002	
8/3/2017	<0.002	
1/22/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		0.0018 (J)
6/25/2019		0.003
9/12/2019		0.0033
3/13/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.002	
10/29/2011	<0.002	
12/14/2011	<0.002	
1/25/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/30/2015	<0.002	
1/22/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/26/2016	<0.002	
9/19/2016	<0.002	
11/11/2016	<0.002	
1/20/2017	<0.002	
3/16/2017	<0.002	
4/28/2017	<0.002	
8/3/2017	<0.002	
1/19/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		0.0015 (J)
6/26/2019		0.0022
9/12/2019		0.0024
3/12/2020		<0.002

Prediction Limit

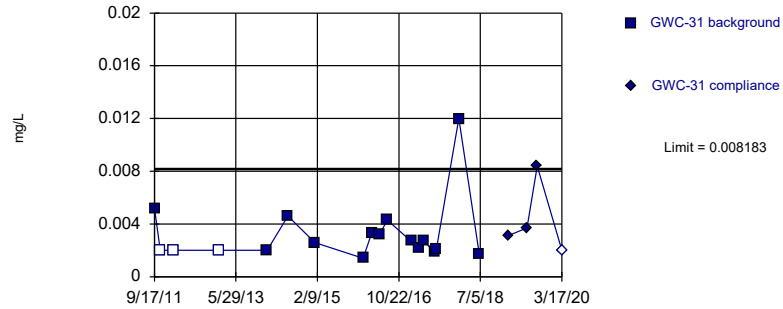
Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.002	
10/28/2011	<0.002	
12/13/2011	<0.002	
2/8/2012	<0.002	
7/18/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/1/2014	<0.002	
1/20/2015	<0.002	
7/30/2015	<0.002	
1/19/2016	<0.002	
3/23/2016	<0.002	
5/20/2016	<0.002	
7/21/2016	<0.002	
9/20/2016	0.0011 (J)	
11/14/2016	<0.002	
1/24/2017	<0.002	
3/17/2017	<0.002	
5/1/2017	<0.002	
8/4/2017	<0.002	
1/24/2018	<0.002	
6/21/2018	0.0015 (J)	
1/30/2019		0.0018 (J)
6/27/2019		0.0025
9/10/2019		0.0019 (J)
3/11/2020		<0.002

Within Limit

Prediction Limit
Intrawell Parametric

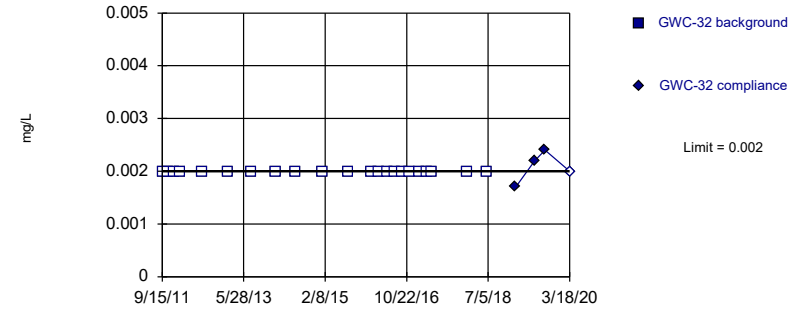


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.938, Std. Dev.=0.5266, n=18, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8728, critical = 0.858. Kappa = 2.15 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

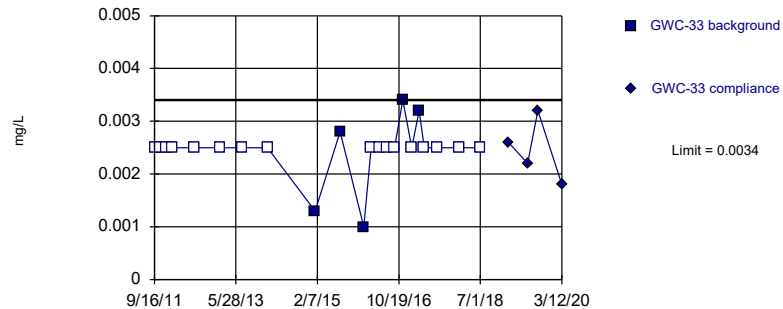


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

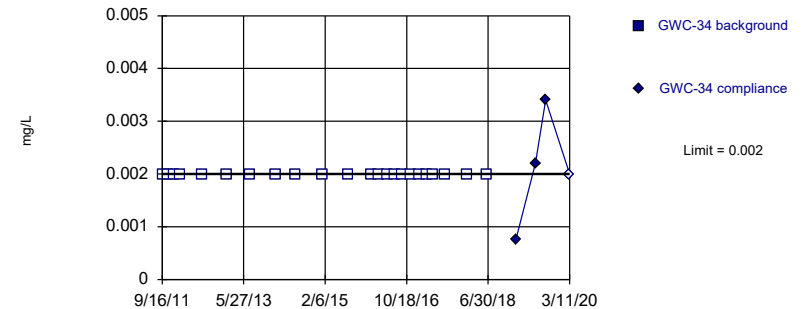


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 77.27% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	0.0052	
10/31/2011	<0.002	
2/7/2012	<0.002	
1/23/2013	<0.002	
1/23/2014	0.002	
7/1/2014	0.0046	
1/21/2015	0.0026	
1/25/2016	0.0014	
3/30/2016	0.00334 (J)	
5/25/2016	0.00321 (J)	
7/27/2016	0.0043	
1/25/2017	0.0027	
3/23/2017	0.0022 (J)	
5/2/2017	0.0027	
7/19/2017	0.0019 (J)	
8/4/2017	0.0021 (J)	
1/23/2018	0.012	
6/27/2018	0.0017 (J)	
1/31/2019		0.0031
6/26/2019		0.0037
9/11/2019		0.0084
3/17/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.002	
10/31/2011	<0.002	
12/13/2011	<0.002	
2/1/2012	<0.002	
7/17/2012	<0.002	
1/23/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/1/2014	<0.002	
1/20/2015	<0.002	
7/30/2015	<0.002	
1/25/2016	<0.002	
3/23/2016	<0.002	
5/24/2016	<0.002	
7/22/2016	<0.002	
9/16/2016	<0.002	
11/15/2016	<0.002	
1/26/2017	<0.002	
3/24/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	0.0053 (O)	
1/23/2018	<0.002	
6/26/2018	<0.002	
1/30/2019		0.0017 (J)
6/27/2019		0.0022
9/12/2019		0.0024
3/18/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.0025	
10/30/2011	<0.0025	
12/13/2011	<0.0025	
2/1/2012	<0.0025	
7/17/2012	<0.0025	
1/23/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	<0.0025	
1/20/2015	0.0013	
7/29/2015	0.0028	
1/25/2016	0.001 (J)	
3/23/2016	<0.0025	
5/24/2016	<0.0025	
7/22/2016	<0.0025	
9/16/2016	<0.0025	
11/17/2016	0.0034	
1/25/2017	<0.0025	
3/23/2017	0.0032	
5/1/2017	<0.0025	
8/4/2017	<0.0025	
1/23/2018	<0.0025	
6/26/2018	<0.0025	
1/30/2019		0.0026
6/26/2019		0.0022
9/12/2019		0.0032
3/12/2020		0.0018 (J)

Prediction Limit

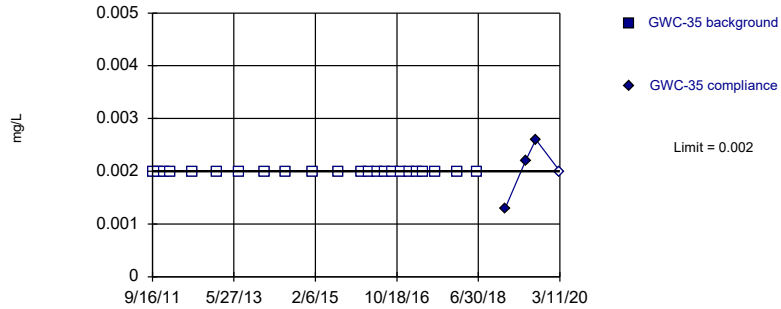
Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.002	
10/31/2011	<0.002	
12/12/2011	<0.002	
2/1/2012	<0.002	
7/16/2012	<0.002	
1/22/2013	<0.002	
7/17/2013	<0.002	
1/23/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/29/2015	<0.002	
1/21/2016	<0.002	
3/24/2016	<0.002	
5/23/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/15/2016	<0.002	
1/25/2017	<0.002	
3/22/2017	<0.002	
5/1/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/20/2018	<0.002	
1/28/2019		0.00076 (J)
6/26/2019		0.0022
9/11/2019		0.0034
3/11/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

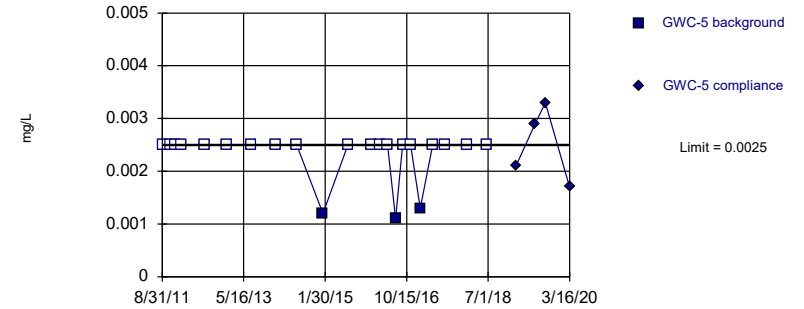


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

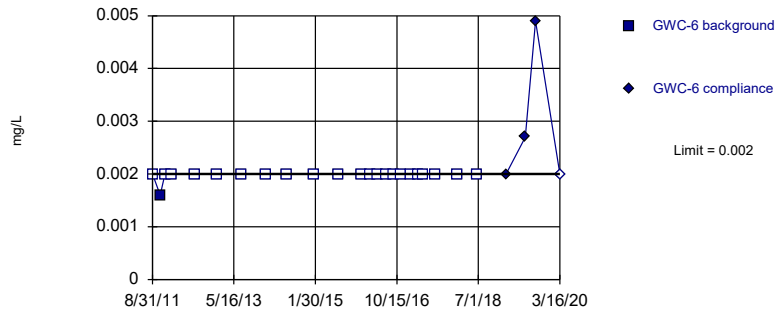


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

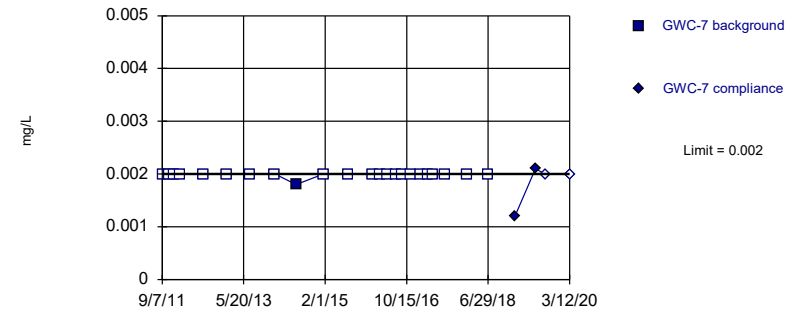


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.002	
10/31/2011	<0.002	
12/12/2011	<0.002	
2/1/2012	<0.002	
7/16/2012	<0.002	
1/22/2013	<0.002	
7/2/2013	<0.002	
1/21/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/28/2015	<0.002	
1/21/2016	<0.002	
3/24/2016	<0.002	
5/23/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/15/2016	<0.002	
1/26/2017	<0.002	
3/22/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/19/2018	<0.002	
1/21/2019		0.0013 (J)
6/26/2019		0.0022
9/12/2019		0.0026
3/11/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	<0.0025	
1/9/2013	<0.0025	
7/17/2013	<0.0025	
1/15/2014	<0.0025	
6/25/2014	<0.0025	
1/13/2015	0.0012 (J)	
7/24/2015	<0.0025	
1/20/2016	<0.0025	
3/28/2016	<0.0025	
5/23/2016	<0.0025	
7/21/2016	0.0011 (J)	
9/15/2016	<0.0025	
11/15/2016	<0.0025	
1/26/2017	0.0013 (J)	
3/22/2017	0.024 (O)	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/25/2018	<0.0025	
1/30/2019		0.0021 (J)
6/26/2019		0.0029
9/12/2019		0.0033
3/16/2020		0.0017 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.002	
10/30/2011	0.0016	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/24/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/15/2014	<0.002	
6/25/2014	<0.002	
1/20/2015	<0.002	
7/24/2015	<0.002	
1/20/2016	<0.002	
3/28/2016	<0.002	
5/24/2016	<0.002	
7/21/2016	<0.002	
9/15/2016	<0.002	
11/16/2016	<0.002	
1/26/2017	<0.002	
3/22/2017	<0.002	
5/2/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/30/2019		0.002 (J)
6/26/2019		0.0027
9/12/2019		0.0049
3/16/2020		<0.002

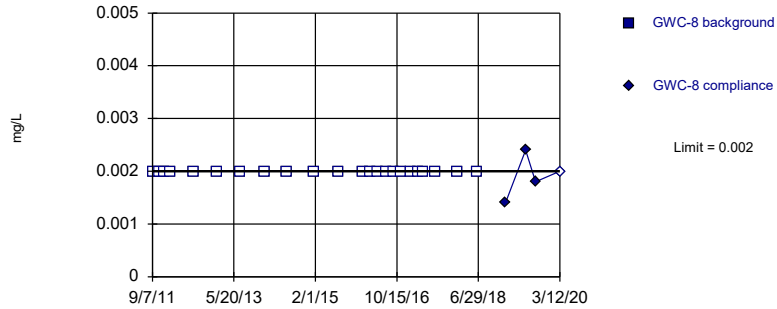
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.002	
10/30/2011	<0.002	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	<0.002	
1/7/2013	<0.002	
7/9/2013	<0.002	
1/14/2014	<0.002	
6/24/2014	0.0018	
1/20/2015	<0.002	
7/27/2015	<0.002	
1/26/2016	<0.002	
3/29/2016	<0.002	
5/24/2016	<0.002	
7/22/2016	<0.002	
9/15/2016	<0.002	
11/16/2016	<0.002	
1/26/2017	<0.002	
3/22/2017	<0.002	
5/2/2017	<0.002	
8/4/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/21/2019		0.0012 (J)
6/25/2019		0.0021
9/10/2019		<0.002
3/12/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

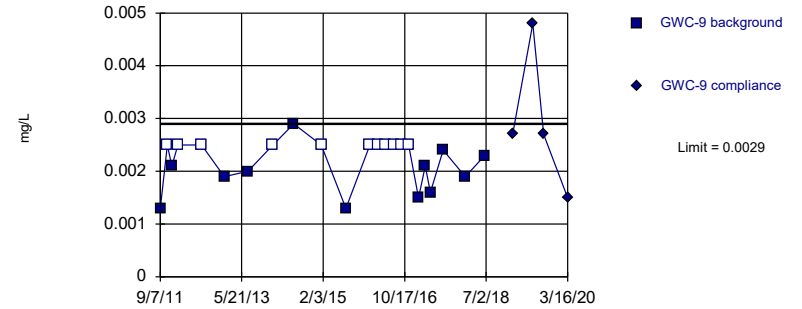


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

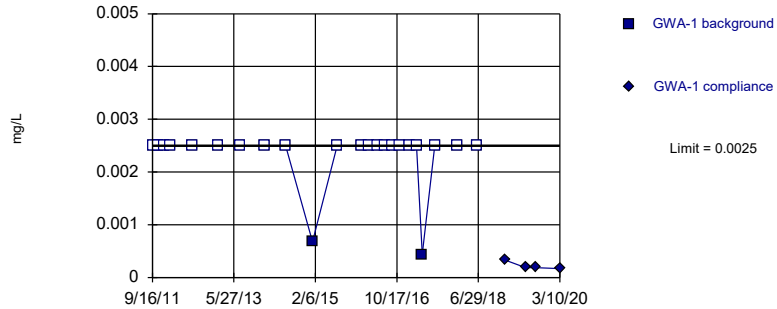


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 47.83% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Chromium Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

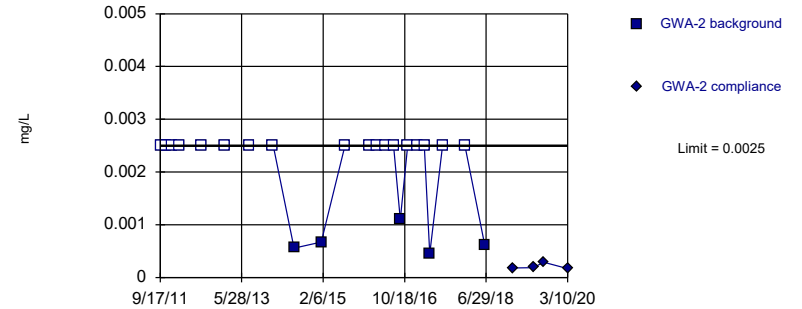


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.002	
10/30/2011	<0.002	
12/5/2011	<0.002	
1/19/2012	<0.002	
7/18/2012	<0.002	
1/7/2013	<0.002	
7/9/2013	<0.002	
1/14/2014	<0.002	
6/24/2014	<0.002	
1/20/2015	<0.002	
7/27/2015	<0.002	
1/26/2016	<0.002	
3/29/2016	<0.002	
5/24/2016	<0.002	
7/26/2016	<0.002	
9/19/2016	<0.002	
11/16/2016	<0.002	
1/26/2017	<0.002	
3/23/2017	<0.002	
5/3/2017	<0.002	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/21/2018	<0.002	
1/22/2019		0.0014 (J)
6/25/2019		0.0024
9/10/2019		0.0018 (J)
3/12/2020		<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	0.0013	
10/30/2011	<0.0025	
12/4/2011	0.0021	
1/19/2012	<0.0025	
7/18/2012	<0.0025	
1/8/2013	0.0019	
7/9/2013	0.002	
1/14/2014	<0.0025	
6/24/2014	0.0029	
1/20/2015	<0.0025	
7/27/2015	0.0013	
1/26/2016	<0.0025	
3/29/2016	<0.0025	
5/24/2016	<0.0025	
7/25/2016	<0.0025	
9/19/2016	<0.0025	
11/16/2016	<0.0025	
1/31/2017	0.0015 (J)	
3/23/2017	0.0021 (J)	
5/2/2017	0.0016 (J)	
8/7/2017	0.0024 (J)	
1/24/2018	0.0019 (J)	
6/21/2018	0.0023 (J)	
1/22/2019		0.0027
6/25/2019		0.0048
9/16/2019		0.0027
3/16/2020		0.0015 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0025	
10/27/2011	<0.0025	
12/13/2011	<0.0025	
1/31/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/17/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	0.00068 (J)	
7/21/2015	<0.0025	
1/21/2016	<0.0025	
3/23/2016	<0.0025	
5/20/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/11/2016	<0.0025	
1/19/2017	<0.0025	
3/16/2017	<0.0025	
4/28/2017	0.00044 (J)	
8/3/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/17/2019		0.00033 (J)
6/24/2019		0.00019 (J)
9/9/2019		0.00019 (J)
3/10/2020		0.00017 (J)

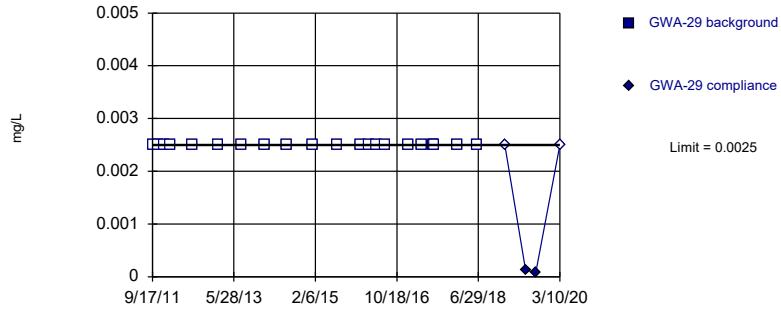
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.0025	
10/27/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/23/2012	<0.0025	
1/23/2013	<0.0025	
7/24/2013	<0.0025	
1/22/2014	<0.0025	
7/1/2014	0.00056 (J)	
1/22/2015	0.00067 (J)	
7/22/2015	<0.0025	
1/20/2016	<0.0025	
3/23/2016	<0.0025	
5/24/2016	<0.0025	
7/26/2016	<0.0025	
9/16/2016	0.0011 (J)	
11/10/2016	<0.0025	
1/19/2017	<0.0025	
3/17/2017	<0.0025	
4/28/2017	0.00045 (J)	
8/2/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	0.00061 (J)	
1/17/2019		0.00018 (J)
6/24/2019		0.00019 (J)
9/10/2019		0.00029 (J)
3/10/2020		0.00017 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

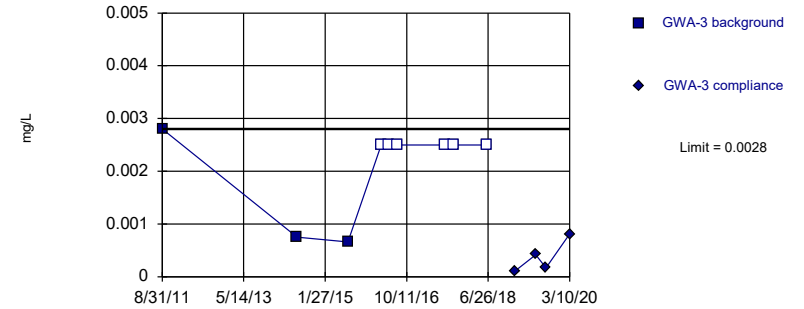


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

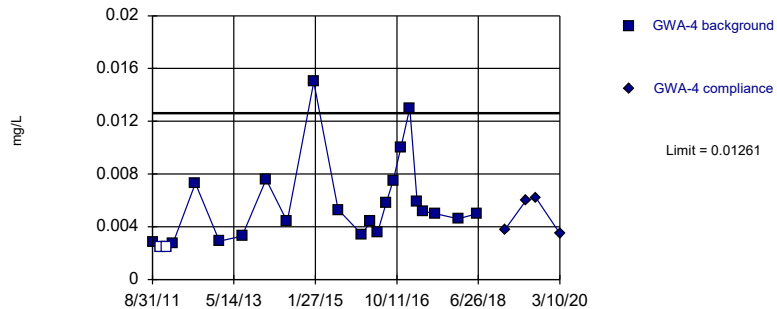


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

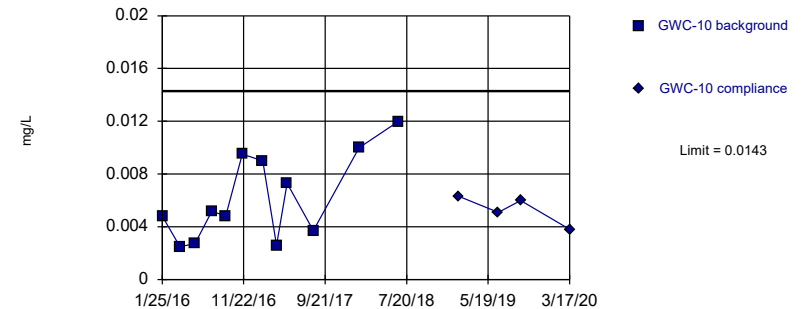


Background Data Summary (based on square root transformation): Mean=0.07262, Std. Dev.=0.01959, n=23, 8.696% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8982, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.006177, Std. Dev.=0.003274, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.0025	
10/28/2011	<0.0025	
12/12/2011	<0.0025	
1/31/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/22/2014	<0.0025	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/22/2015	<0.0025	
1/19/2016	<0.0025 (D)	
3/22/2016	<0.0025	
5/19/2016	<0.0025	
7/21/2016	<0.0025	
1/17/2017	<0.0025	
4/27/2017	<0.0025	
7/18/2017	<0.0025	
8/1/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/18/2019		<0.0025
6/25/2019		0.00012 (J)
9/10/2019		8.9E-05 (J)
3/10/2020		<0.0025

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	0.0028	
6/25/2014	0.00075 (J)	
7/21/2015	0.00066 (J)	
3/31/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
8/1/2017	<0.0025	
10/3/2017	<0.0025	
6/20/2018	<0.0025	
1/18/2019		0.00011 (J)
6/25/2019		0.00042 (J)
9/11/2019		0.00017 (J)
3/10/2020		0.00081 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	0.0028	
10/27/2011	<0.0025	
12/14/2011	<0.0025	
2/1/2012	0.0027	
7/23/2012	0.0073	
1/23/2013	0.0029	
7/17/2013	0.0033	
1/15/2014	0.0076	
6/25/2014	0.0044	
1/14/2015	0.015	
7/21/2015	0.0053	
1/20/2016	0.0034	
3/23/2016	0.00443 (J)	
5/19/2016	0.00361 (J)	
7/21/2016	0.0058	
9/14/2016	0.0075	
11/10/2016	0.01	
1/17/2017	0.013	
3/16/2017	0.0059	
4/27/2017	0.0052	
8/2/2017	0.005	
1/22/2018	0.0046	
6/19/2018	0.005	
1/17/2019		0.0038
6/24/2019		0.006
9/10/2019		0.0062
3/10/2020		0.0035

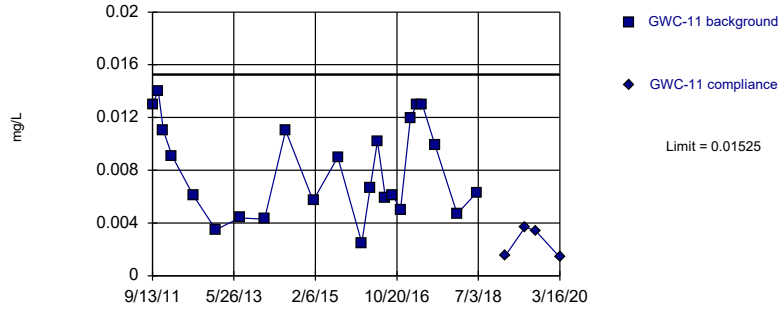
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	0.0048	
3/30/2016	0.0025 (J)	
5/25/2016	0.00272 (J)	
7/27/2016	0.0052	
9/16/2016	0.0048	
11/17/2016	0.0095	
2/1/2017	0.009	
3/24/2017	0.0026	
5/3/2017	0.0073	
8/8/2017	0.0037	
1/25/2018	0.01	
6/21/2018	0.012	
1/31/2019		0.0063
6/26/2019		0.0051
9/17/2019		0.006
3/17/2020		0.0038

Within Limit

Prediction Limit Intrawell Parametric

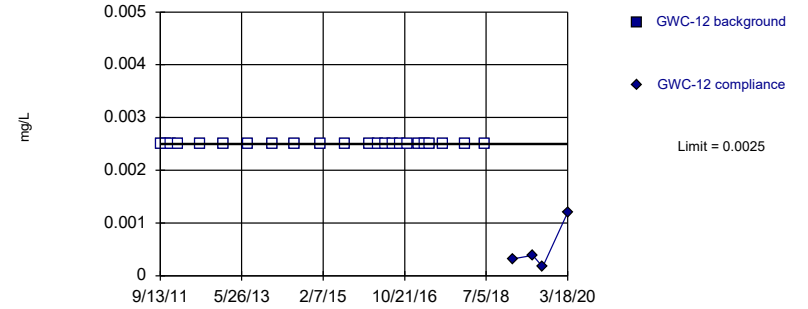


Background Data Summary: Mean=0.008102, Std. Dev.=0.00353, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

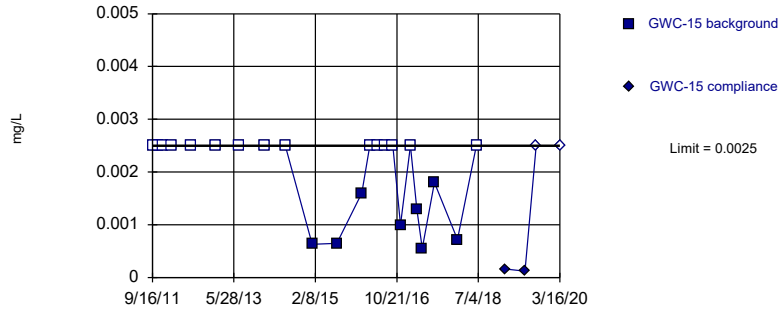


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

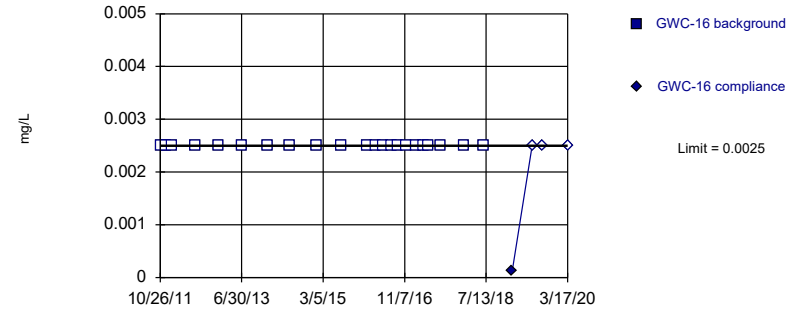


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 65.22% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	0.013	
10/28/2011	0.014	
12/4/2011	0.011	
2/9/2012	0.0091	
7/18/2012	0.0061	
1/8/2013	0.0035	
7/9/2013	0.0044	
1/15/2014	0.0043	
6/25/2014	0.011	
1/21/2015	0.0057	
7/28/2015	0.009	
1/26/2016	0.0025	
3/29/2016	0.00664 (J)	
5/25/2016	0.0102	
7/25/2016	0.0059	
9/19/2016	0.0061	
11/16/2016	0.005	
1/31/2017	0.012	
3/23/2017	0.013	
5/2/2017	0.013	
8/7/2017	0.0099	
1/24/2018	0.0047	
6/20/2018	0.0063	
1/24/2019		0.0015 (J)
6/26/2019		0.0037
9/16/2019		0.0034
3/16/2020		0.0014 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.0025	
10/28/2011	<0.0025	
12/4/2011	<0.0025	
1/24/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/10/2013	<0.0025	
1/21/2014	<0.0025	
7/1/2014	<0.0025	
1/21/2015	<0.0025	
7/28/2015	<0.0025	
1/26/2016	<0.0025	
3/29/2016	<0.0025	
5/25/2016	<0.0025	
7/22/2016	<0.0025	
9/15/2016	<0.0025	
11/16/2016	<0.0025	
1/31/2017	<0.0025	
3/23/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/24/2018	<0.0025	
6/26/2018	<0.0025	
1/25/2019		0.00032 (J)
6/26/2019		0.00039 (J)
9/11/2019		0.00017 (J)
3/18/2020		0.0012 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.0025	
10/27/2011	<0.0025	
12/3/2011	<0.0025	
2/9/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/2/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	<0.0025	
1/14/2015	0.00063 (J)	
7/22/2015	0.00065 (J)	
1/27/2016	0.0016	
3/30/2016	<0.0025	
5/25/2016	<0.0025	
7/26/2016	<0.0025	
9/20/2016	<0.0025	
11/17/2016	0.001 (J)	
2/1/2017	<0.0025	
3/23/2017	0.0013 (J)	
5/3/2017	0.00055 (J)	
8/4/2017	0.0018 (J)	
1/25/2018	0.00072 (J)	
6/20/2018	<0.0025	
1/22/2019		0.00016 (J)
6/25/2019		0.00012 (J)
9/17/2019		<0.0025
3/16/2020		<0.0025

Prediction Limit

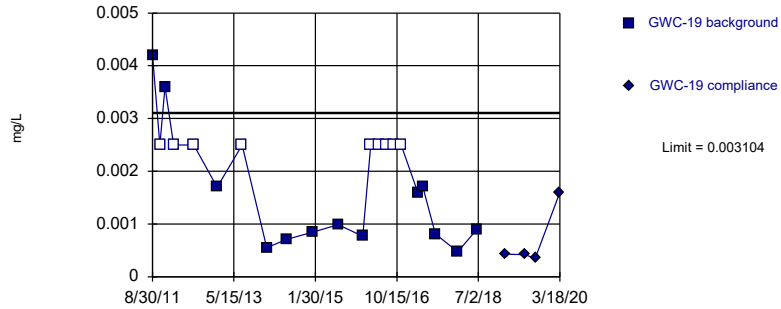
Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	0.0033 (O)	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
1/25/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/2/2013	<0.0025	
1/14/2014	<0.0025	
6/25/2014	<0.0025	
1/13/2015	<0.0025	
7/22/2015	<0.0025	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/25/2016	<0.0025	
7/27/2016	<0.0025	
9/16/2016	<0.0025	
11/17/2016	<0.0025	
2/1/2017	<0.0025	
3/24/2017	<0.0025	
5/3/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/20/2018	<0.0025	
1/25/2019		0.00013 (J)
6/25/2019		<0.0025
9/11/2019		<0.0025
3/17/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Parametric

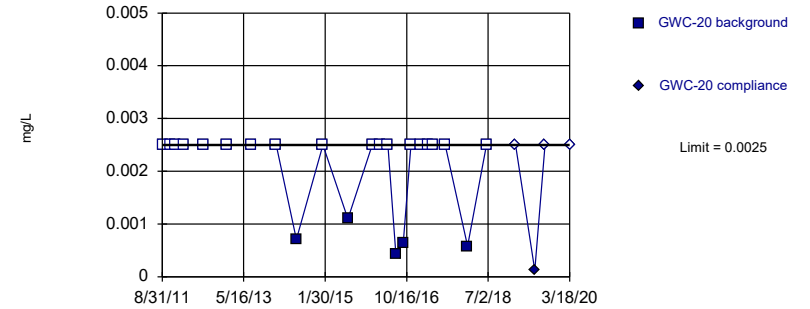


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001198, Std. Dev.=0.000933, n=22, 40.91% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8901, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

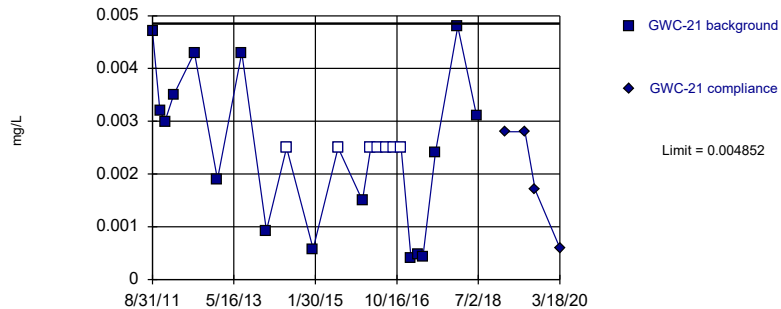


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

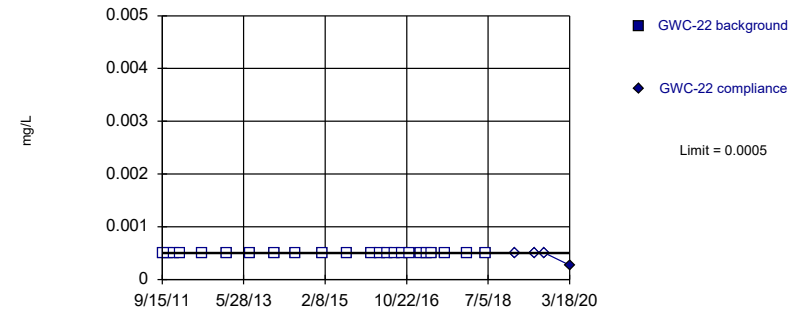


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001925, Std. Dev.=0.001446, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	0.0042	
10/26/2011	<0.0025	
12/3/2011	0.0036	
2/8/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	0.0017	
7/16/2013	<0.0025	
1/21/2014	0.00055 (J)	
6/24/2014	0.00071 (J)	
1/13/2015	0.00085 (J)	
7/23/2015	0.00099 (J)	
1/27/2016	0.00077 (J)	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/25/2016	<0.0025	
9/19/2016	<0.0025	
11/17/2016	<0.0025	
3/24/2017	0.0016 (J)	
5/3/2017	0.0017 (J)	
8/7/2017	0.00081 (J)	
1/25/2018	0.00047 (J)	
6/21/2018	0.0009 (J)	
1/28/2019		0.00043 (J)
6/26/2019		0.00042 (J)
9/12/2019		0.00035 (J)
3/18/2020		0.0016 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/4/2011	<0.0025	
2/8/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	0.00071 (J)	
1/13/2015	<0.0025	
7/23/2015	0.0011 (J)	
1/27/2016	<0.0025	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/25/2016	0.00042 (J)	
9/20/2016	0.00064 (J)	
11/17/2016	<0.0025	
2/2/2017	<0.0025	
3/28/2017	<0.0025	
5/4/2017	<0.0025	
8/7/2017	<0.0025	
1/26/2018	0.00058 (J)	
6/21/2018	<0.0025	
1/28/2019		<0.0025
6/25/2019		0.00012 (J)
9/11/2019		<0.0025
3/18/2020		<0.0025

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	0.0047	
10/27/2011	0.0032	
12/4/2011	0.003	
2/8/2012	0.0035	
7/17/2012	0.0043	
1/9/2013	0.0019	
7/16/2013	0.0043	
1/21/2014	0.00093 (J)	
6/24/2014	<0.0025	
1/13/2015	0.00058 (J)	
7/23/2015	<0.0025	
1/26/2016	0.0015	
3/30/2016	<0.0025	
5/26/2016	<0.0025	
7/26/2016	<0.0025	
9/20/2016	<0.0025	
11/17/2016	<0.0025	
2/2/2017	0.0004 (J)	
3/28/2017	0.00047 (J)	
5/4/2017	0.00043 (J)	
8/7/2017	0.0024 (J)	
1/26/2018	0.0048	
6/20/2018	0.0031	
1/24/2019		0.0028
6/25/2019		0.0028
9/11/2019		0.0017
3/18/2020		0.0006 (J)

Prediction Limit

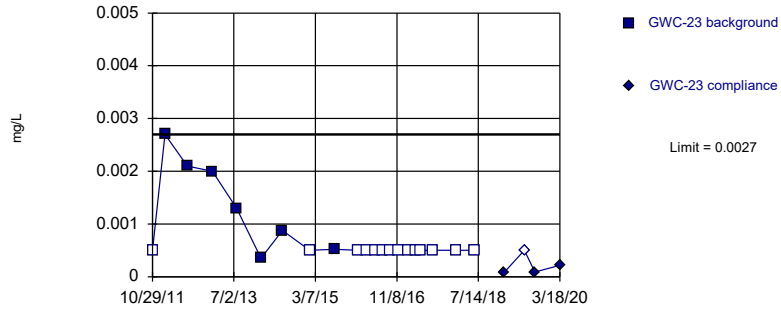
Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.0005	
10/29/2011	<0.0005	
12/13/2011	<0.0005	
1/25/2012	<0.0005	
7/18/2012	<0.0005	
1/22/2013	<0.0005	
7/16/2013	<0.0005	
1/21/2014	<0.0005	
6/25/2014	<0.0005	
1/14/2015	<0.0005	
7/23/2015	<0.0005	
1/26/2016	<0.0005	
3/31/2016	<0.0005	
5/26/2016	<0.0005	
7/26/2016	<0.0005	
9/20/2016	<0.0005	
11/17/2016	<0.0005	
2/3/2017	<0.0005	
3/28/2017	<0.0005	
5/3/2017	<0.0005	
8/8/2017	<0.0005	
1/25/2018	<0.0005	
6/20/2018	<0.0005	
1/24/2019		<0.0005
6/25/2019		<0.0005
9/10/2019		<0.0005
3/18/2020		0.00027 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

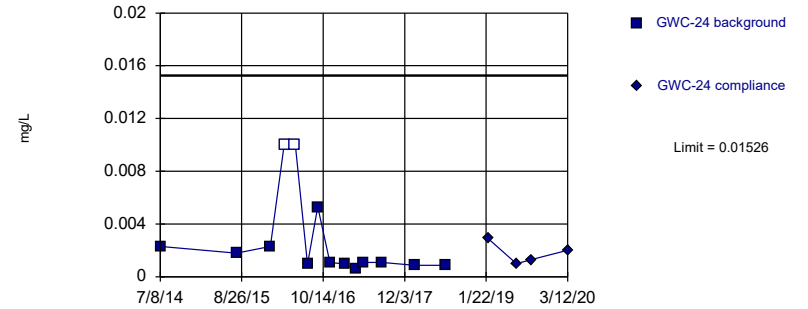


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

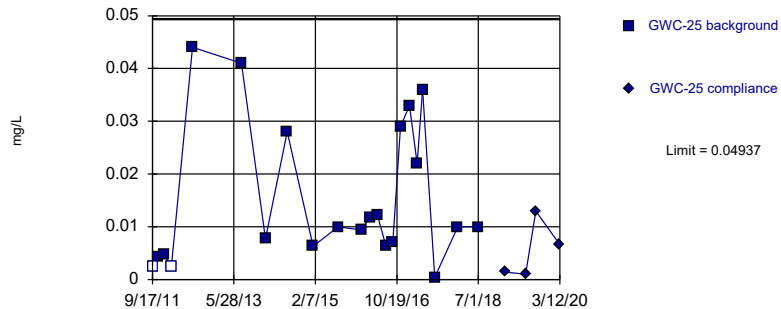


Background Data Summary (based on natural log transformation): Mean=-6.342, Std. Dev.=0.9191, n=14, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8439, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

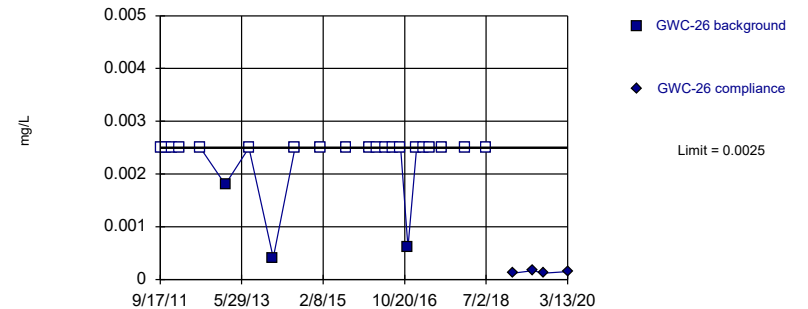


Background Data Summary (based on square root transformation): Mean=0.1123, Std. Dev.=0.05377, n=22, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	0.0037 (O)	
10/29/2011	<0.0005	
12/13/2011	0.003 (O)	
1/31/2012	0.0027	
7/18/2012	0.0021	
1/22/2013	0.002	
7/23/2013	0.0013	
1/22/2014	0.00035 (J)	
7/1/2014	0.00088 (J)	
1/22/2015	<0.0005	
7/29/2015	0.00052 (J)	
1/21/2016	<0.0005	
3/29/2016	<0.0005	
5/25/2016	<0.0005	
7/27/2016	<0.0005	
9/20/2016	<0.0005	
11/18/2016	<0.0005	
2/3/2017	<0.0005	
3/28/2017	<0.0005	
5/4/2017	<0.0005	
8/8/2017	<0.0005	
1/25/2018	<0.0005	
6/20/2018	<0.0005	
1/25/2019		8.4E-05 (J)
6/26/2019		<0.0005
9/12/2019		9.3E-05 (J)
3/18/2020		0.00022 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	0.0023	
7/31/2015	0.0018	
1/20/2016	0.0023	
3/30/2016	<0.01	
5/25/2016	<0.01	
7/27/2016	0.00095 (J)	
9/16/2016	0.0053	
11/18/2016	0.0011 (J)	
2/3/2017	0.00097 (J)	
3/29/2017	0.00059 (J)	
5/4/2017	0.0011 (J)	
8/8/2017	0.0011 (J)	
1/25/2018	0.00088 (J)	
6/27/2018	0.00086 (J)	
1/31/2019		0.0029
6/26/2019		0.001
9/11/2019		0.0013
3/12/2020		0.002 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0025	
10/31/2011	0.0042	
12/14/2011	0.0047	
2/7/2012	<0.0025	
7/17/2012	0.044	
7/24/2013	0.041	
1/23/2014	0.0077	
7/8/2014	0.028	
1/21/2015	0.0063	
7/30/2015	0.01	
1/21/2016	0.0094	
3/28/2016	0.0117	
5/25/2016	0.0122	
7/27/2016	0.0065	
9/19/2016	0.0071	
11/15/2016	0.029	
1/24/2017	0.033	
3/23/2017	0.022	
5/2/2017	0.036	
8/3/2017	0.00041 (J)	
1/25/2018	0.01	
6/27/2018	0.01	
1/24/2019		0.0014 (J)
6/25/2019		0.001
9/11/2019		0.013
3/12/2020		0.0066

Prediction Limit

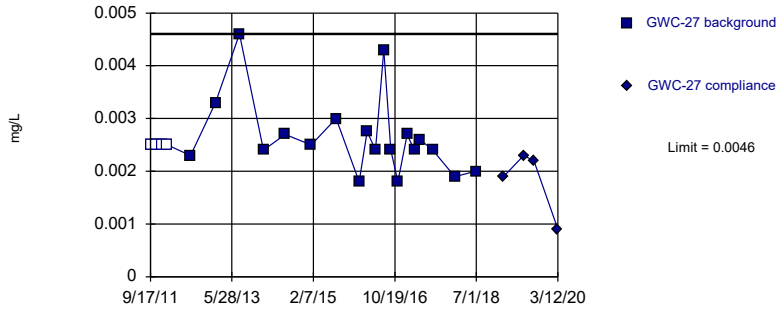
Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.0025	
10/29/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	0.0018	
7/24/2013	<0.0025	
1/23/2014	0.00041 (J)	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/31/2015	<0.0025	
1/25/2016	<0.0025	
3/24/2016	<0.0025	
5/25/2016	<0.0025	
7/26/2016	<0.0025	
9/19/2016	<0.0025	
11/14/2016	0.00061 (J)	
1/19/2017	<0.0025	
3/16/2017	<0.0025	
5/1/2017	<0.0025	
8/3/2017	<0.0025	
1/22/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		0.00012 (J)
6/25/2019		0.00017 (J)
9/12/2019		0.00012 (J)
3/13/2020		0.00015 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

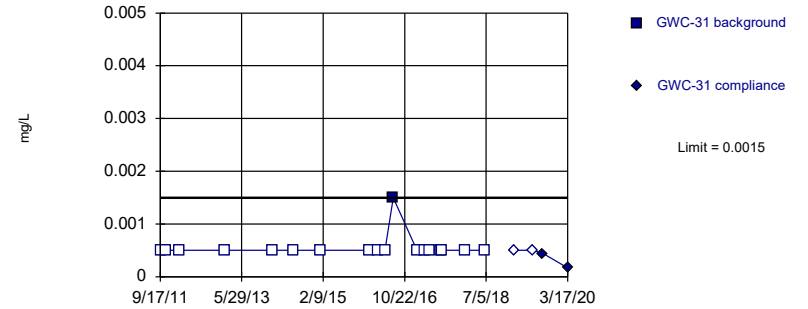


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 17.39% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

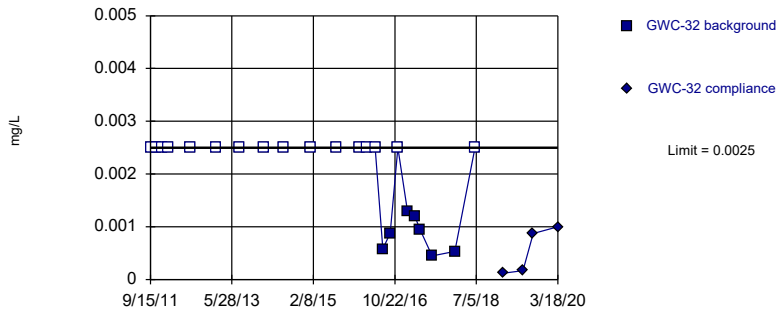


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

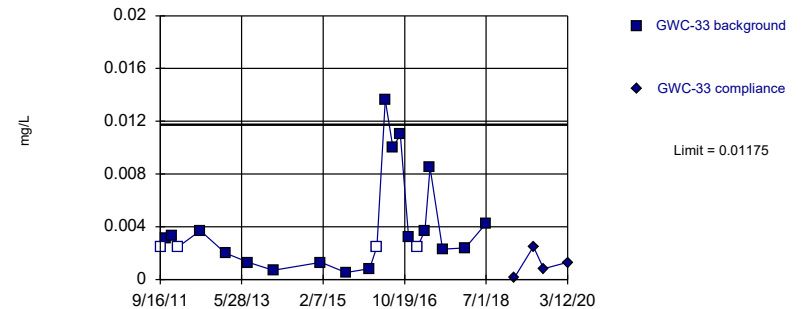


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05328, Std. Dev.=0.02697, n=22, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8812, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.0025	
10/29/2011	<0.0025	
12/14/2011	<0.0025	
1/25/2012	<0.0025	
7/17/2012	0.0023	
1/24/2013	0.0033	
7/24/2013	0.0046	
1/23/2014	0.0024	
7/8/2014	0.0027	
1/21/2015	0.0025	
7/30/2015	0.003	
1/22/2016	0.0018	
3/23/2016	0.00275 (J)	
5/24/2016	0.0024 (J)	
7/26/2016	0.0043	
9/19/2016	0.0024 (J)	
11/11/2016	0.0018 (J)	
1/20/2017	0.0027	
3/16/2017	0.0024 (J)	
4/28/2017	0.0026	
8/3/2017	0.0024 (J)	
1/19/2018	0.0019 (J)	
6/27/2018	0.002 (J)	
1/24/2019		0.0019 (J)
6/26/2019		0.0023
9/12/2019		0.0022
3/12/2020		0.0009 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.0005	
10/31/2011	<0.0005	
2/7/2012	<0.0005	
1/23/2013	<0.0005	
1/23/2014	<0.0005	
7/1/2014	<0.0005	
1/21/2015	<0.0005	
1/25/2016	<0.0005	
3/30/2016	<0.0005	
5/25/2016	<0.0005	
7/27/2016	0.0015	
1/25/2017	<0.0005	
3/23/2017	<0.0005	
5/2/2017	<0.0005	
7/19/2017	<0.0005	
8/4/2017	<0.0005	
1/23/2018	<0.0005	
6/27/2018	<0.0005	
1/31/2019		<0.0005
6/26/2019		<0.0005
9/11/2019		0.00044 (J)
3/17/2020		0.00017 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.0025	
10/31/2011	<0.0025	
12/13/2011	<0.0025	
2/1/2012	<0.0025	
7/17/2012	<0.0025	
1/23/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/1/2014	<0.0025	
1/20/2015	<0.0025	
7/30/2015	<0.0025	
1/25/2016	<0.0025	
3/23/2016	<0.0025	
5/24/2016	<0.0025	
7/22/2016	0.00058 (J)	
9/16/2016	0.00088 (J)	
11/15/2016	<0.0025	
1/26/2017	0.0013 (J)	
3/24/2017	0.0012 (J)	
5/2/2017	0.00095 (J)	
8/3/2017	0.00045 (J)	
1/23/2018	0.00053 (J)	
6/26/2018	<0.0025	
1/30/2019		0.00012 (J)
6/27/2019		0.00017 (J)
9/12/2019		0.00087
3/18/2020		0.001 (J)

Prediction Limit

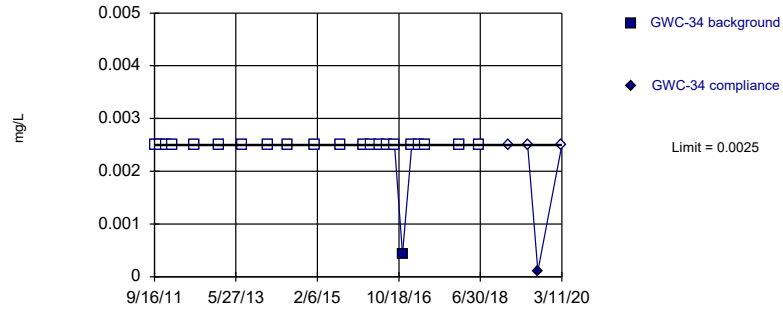
Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.0025	
10/30/2011	0.0031	
12/13/2011	0.0033	
2/1/2012	<0.0025	
7/17/2012	0.0037	
1/23/2013	0.002	
7/17/2013	0.0013	
1/23/2014	0.00071 (J)	
1/20/2015	0.0013	
7/29/2015	0.00054 (J)	
1/25/2016	0.00082 (J)	
3/23/2016	<0.0025	
5/24/2016	0.0136	
7/22/2016	0.01	
9/16/2016	0.011	
11/17/2016	0.0032	
1/25/2017	<0.0025	
3/23/2017	0.0037	
5/1/2017	0.0085	
8/4/2017	0.0023 (J)	
1/23/2018	0.0024 (J)	
6/26/2018	0.0042	
1/30/2019		0.00012 (J)
6/26/2019		0.0025
9/12/2019		0.00083
3/12/2020		0.0013 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

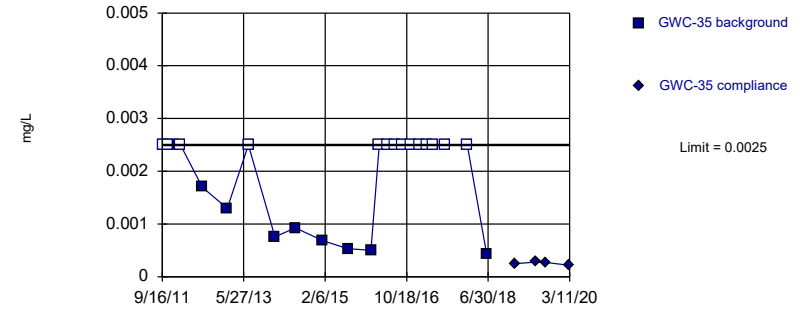


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

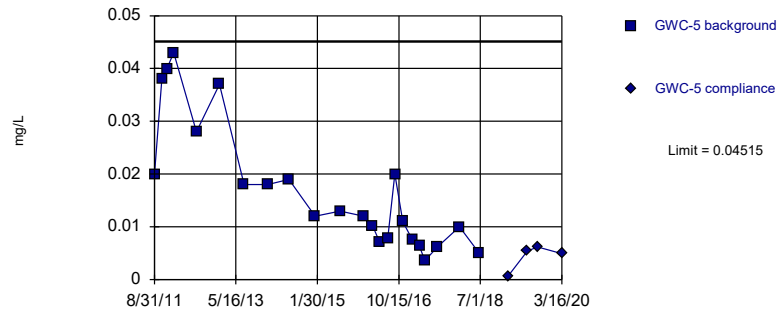


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 60.87% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

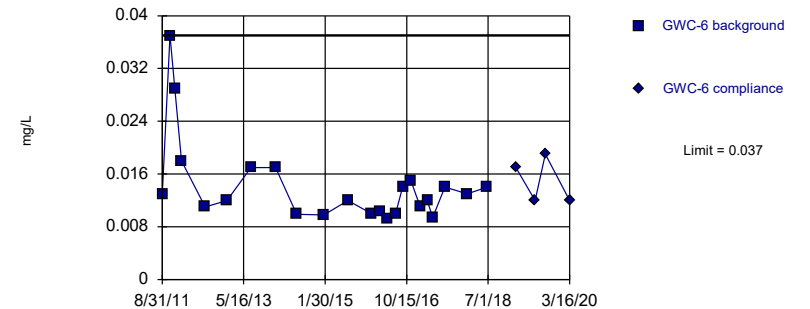


Background Data Summary (based on square root transformation): Mean=0.1233, Std. Dev.=0.04404, n=23.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9223, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.0025	
10/31/2011	<0.0025	
12/12/2011	<0.0025	
2/1/2012	<0.0025	
7/16/2012	<0.0025	
1/22/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/29/2015	<0.0025	
1/21/2016	<0.0025	
3/24/2016	<0.0025	
5/23/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/15/2016	0.00043 (J)	
1/25/2017	<0.0025	
3/22/2017	<0.0025	
5/1/2017	<0.0025	
8/3/2017	0.027 (O)	
1/23/2018	<0.0025	
6/20/2018	<0.0025	
1/28/2019		<0.0025
6/26/2019		<0.0025
9/11/2019		0.00011 (J)
3/11/2020		<0.0025

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.0025	
10/31/2011	<0.0025	
12/12/2011	0.0025	
2/1/2012	<0.0025	
7/16/2012	0.0017	
1/22/2013	0.0013	
7/2/2013	<0.0025	
1/21/2014	0.00076 (J)	
6/25/2014	0.00093 (J)	
1/14/2015	0.00069 (J)	
7/28/2015	0.00053 (J)	
1/21/2016	0.0005 (J)	
3/24/2016	<0.0025	
5/23/2016	<0.0025	
7/21/2016	<0.0025	
9/15/2016	<0.0025	
11/15/2016	<0.0025	
1/26/2017	<0.0025	
3/22/2017	<0.0025	
5/2/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/19/2018	0.00042 (J)	
1/21/2019		0.00025 (J)
6/26/2019		0.00028 (J)
9/12/2019		0.00027 (J)
3/11/2020		0.00022 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	0.02	
10/27/2011	0.038	
12/5/2011	0.04	
1/25/2012	0.043	
7/18/2012	0.028	
1/9/2013	0.037	
7/17/2013	0.018	
1/15/2014	0.018	
6/25/2014	0.019	
1/13/2015	0.012	
7/24/2015	0.013	
1/20/2016	0.012	
3/28/2016	0.0101	
5/23/2016	0.00701 (J)	
7/21/2016	0.0079	
9/15/2016	0.02	
11/15/2016	0.011	
1/26/2017	0.0075	
3/22/2017	0.0063	
5/2/2017	0.0036	
8/3/2017	0.0061	
1/23/2018	0.01	
6/25/2018	0.0049	
1/30/2019		0.00068 (J)
6/26/2019		0.0054
9/12/2019		0.0062
3/16/2020		0.0049

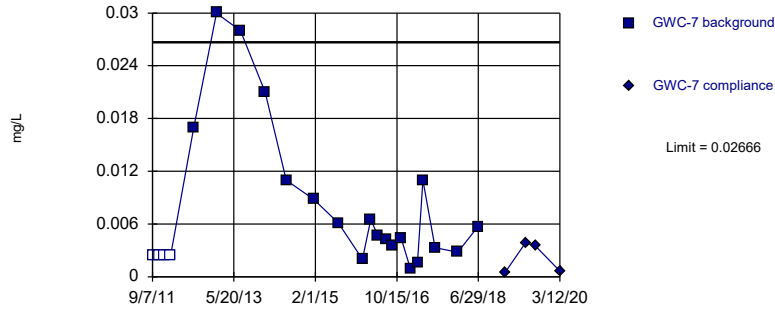
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	0.013	
10/30/2011	0.037	
12/5/2011	0.029	
1/25/2012	0.018	
7/24/2012	0.011	
1/8/2013	0.012	
7/9/2013	0.017	
1/15/2014	0.017	
6/25/2014	0.0099	
1/20/2015	0.0098	
7/24/2015	0.012	
1/20/2016	0.01	
3/28/2016	0.0104	
5/24/2016	0.00926 (J)	
7/21/2016	0.01	
9/15/2016	0.014	
11/16/2016	0.015	
1/26/2017	0.011	
3/22/2017	0.012	
5/2/2017	0.0094	
8/3/2017	0.014	
1/23/2018	0.013	
6/25/2018	0.014	
1/30/2019		0.017
6/26/2019		0.012
9/12/2019		0.019
3/16/2020		0.012

Within Limit

Prediction Limit
Intrawell Parametric

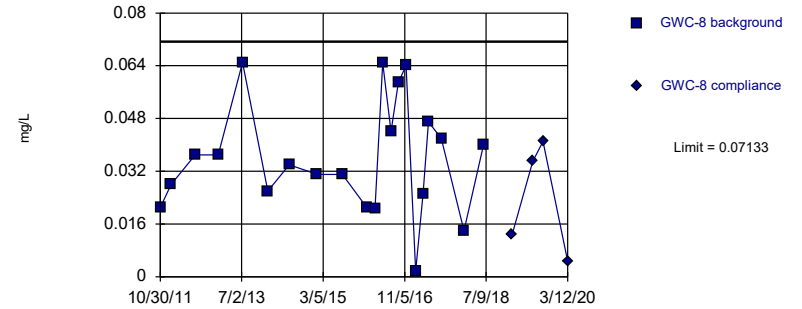


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1738, Std. Dev.=0.0617, n=23, 17.39% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.881. Kappa = 2.024 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

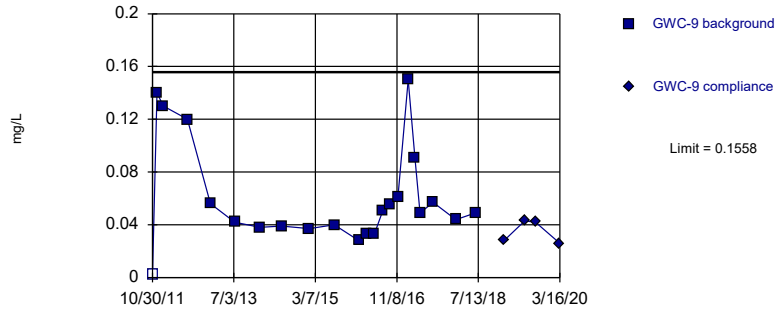


Background Data Summary: Mean=0.03588, Std. Dev.=0.01719, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.873. Kappa = 2.063 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

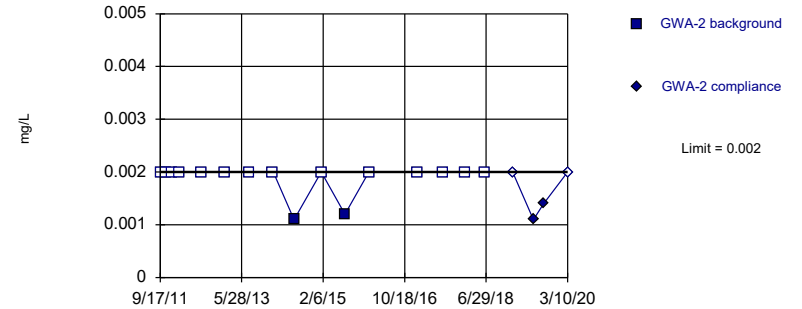


Background Data Summary (based on square root transformation): Mean=0.2353, Std. Dev.=0.07802, n=22, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Cobalt Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	0.017	
1/7/2013	0.03	
7/9/2013	0.028	
1/14/2014	0.021	
6/24/2014	0.011	
1/20/2015	0.0088	
7/27/2015	0.0061	
1/26/2016	0.002	
3/29/2016	0.00652 (J)	
5/24/2016	0.00462 (J)	
7/22/2016	0.0042	
9/15/2016	0.0036	
11/16/2016	0.0044	
1/26/2017	0.00091 (J)	
3/22/2017	0.0016 (J)	
5/2/2017	0.011	
8/4/2017	0.0033	
1/23/2018	0.0028	
6/25/2018	0.0057	
1/21/2019		0.00051 (J)
6/25/2019		0.0039
9/10/2019		0.0035
3/12/2020		0.00066 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	0.14 (O)	
10/30/2011	0.021	
12/5/2011	0.17 (O)	
1/19/2012	0.028	
7/18/2012	0.037	
1/7/2013	0.037	
7/9/2013	0.065	
1/14/2014	0.026	
6/24/2014	0.034	
1/20/2015	0.031	
7/27/2015	0.031	
1/26/2016	0.021	
3/29/2016	0.0208	
5/24/2016	0.0649	
7/26/2016	0.044	
9/19/2016	0.059	
11/16/2016	0.064	
1/26/2017	0.0017 (J)	
3/23/2017	0.025	
5/3/2017	0.047	
8/7/2017	0.042	
1/24/2018	0.014	
6/21/2018	0.04	
1/22/2019		0.013
6/25/2019		0.035
9/10/2019		0.041
3/12/2020		0.0047

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	0.27 (O)	
10/30/2011	<0.0025	
12/4/2011	0.14	
1/19/2012	0.13	
7/18/2012	0.12	
1/8/2013	0.056	
7/9/2013	0.042	
1/14/2014	0.038	
6/24/2014	0.039	
1/20/2015	0.037	
7/27/2015	0.04	
1/26/2016	0.028	
3/29/2016	0.0328	
5/24/2016	0.0334	
7/25/2016	0.051	
9/19/2016	0.055	
11/16/2016	0.061	
1/31/2017	0.15	
3/23/2017	0.091	
5/2/2017	0.049	
8/7/2017	0.057	
1/24/2018	0.044	
6/21/2018	0.049	
1/22/2019		0.028
6/25/2019		0.043
9/16/2019		0.042
3/16/2020		0.026

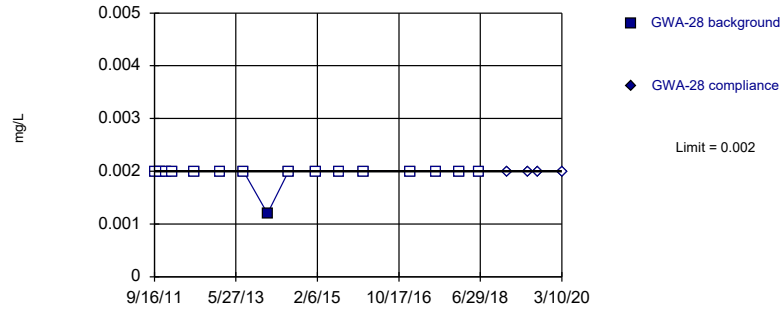
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.002	
10/27/2011	<0.002	
12/14/2011	<0.002	
2/7/2012	<0.002	
7/23/2012	<0.002	
1/23/2013	<0.002	
7/24/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	0.0011 (J)	
1/22/2015	<0.002	
7/22/2015	0.0012 (J)	
1/20/2016	<0.002	
1/19/2017	<0.002	
8/2/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/17/2019		<0.002
6/24/2019		0.0011 (J)
9/10/2019		0.0014 (J)
3/10/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

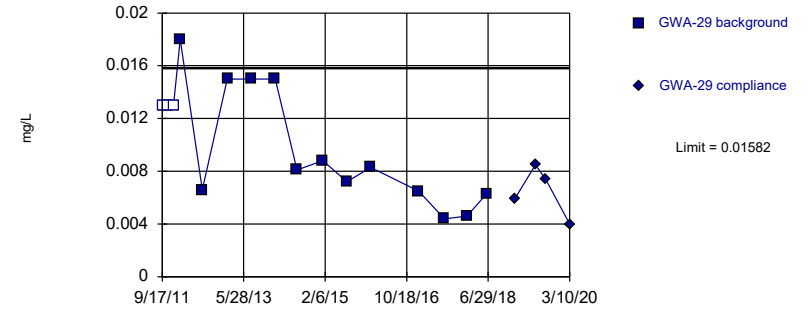


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

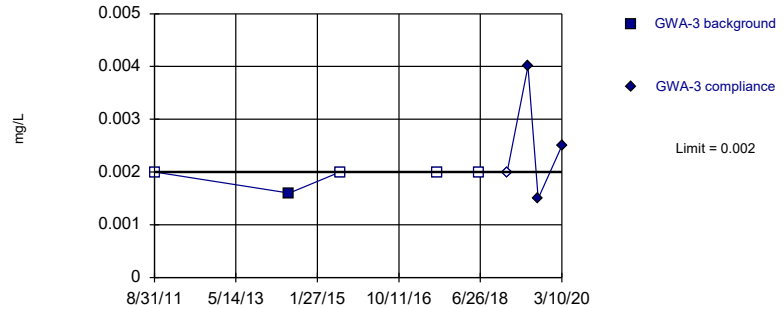


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007974, Std. Dev.=0.003538, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

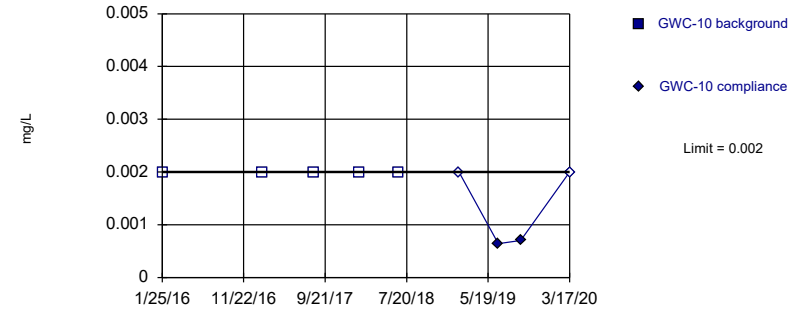


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.002	
10/28/2011	<0.002	
12/12/2011	<0.002	
1/25/2012	<0.002	
7/16/2012	<0.002	
1/24/2013	<0.002	
7/23/2013	<0.002	
1/22/2014	0.0012 (J)	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/21/2015	<0.002	
1/22/2016	<0.002	
1/17/2017	<0.002	
8/1/2017	<0.002	
1/19/2018	<0.002	
6/19/2018	<0.002	
1/21/2019		<0.002
6/25/2019		<0.002
9/10/2019		<0.002
3/10/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.013	
10/28/2011	<0.013	
12/12/2011	<0.013	
1/31/2012	0.018	
7/17/2012	0.0066	
1/24/2013	0.015	
7/24/2013	0.015	
1/22/2014	0.015	
7/8/2014	0.0081 (D)	
1/21/2015	0.0088	
7/22/2015	0.0072	
1/19/2016	0.0083 (D)	
1/17/2017	0.0065	
8/1/2017	0.0044	
1/19/2018	0.0046	
6/19/2018	0.0063	
1/18/2019		0.0059
6/25/2019		0.0085
9/10/2019		0.0074
3/10/2020		0.004

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.002	
6/25/2014	0.0016 (J)	
7/21/2015	<0.002	
8/1/2017	<0.002	
6/20/2018	<0.002	
1/18/2019		<0.002
6/25/2019		0.004
9/11/2019		0.0015 (J)
3/10/2020		0.0025

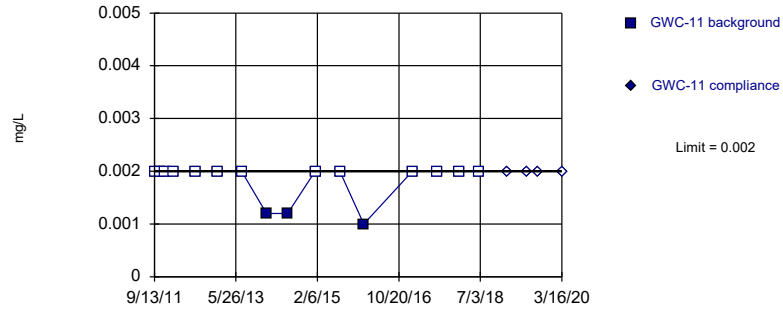
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.002	
2/1/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/21/2018	<0.002	
1/31/2019		<0.002
6/26/2019		0.00064 (J)
9/17/2019		0.0007 (J)
3/17/2020		<0.002

Within Limit

Prediction Limit Intrawell Non-parametric

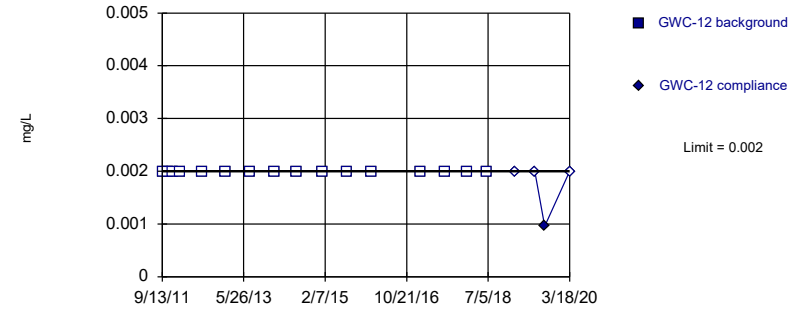


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

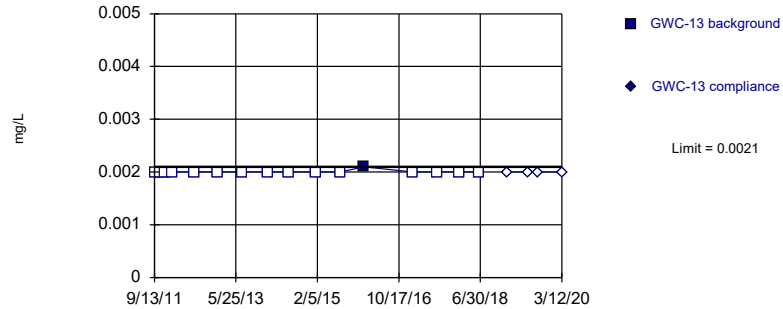


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

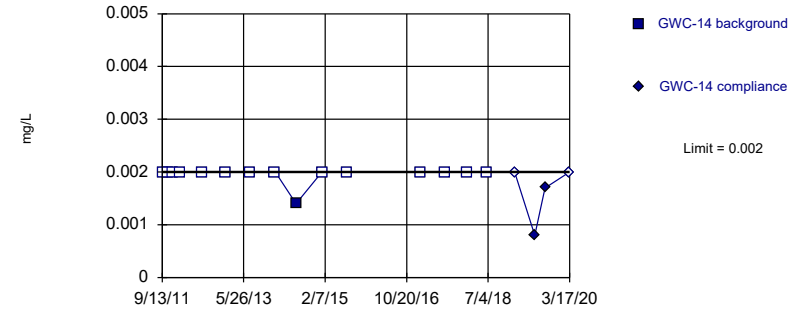


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.002	
10/28/2011	<0.002	
12/4/2011	<0.002	
2/9/2012	<0.002	
7/18/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/15/2014	0.0012 (J)	
6/25/2014	0.0012 (J)	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/26/2016	0.001 (J)	
1/31/2017	<0.002	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/20/2018	<0.002	
1/24/2019		<0.002
6/26/2019		<0.002
9/16/2019		<0.002
3/16/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.002	
10/28/2011	<0.002	
12/4/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/26/2016	<0.002	
1/31/2017	<0.002	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/26/2018	<0.002	
1/25/2019		<0.002
6/26/2019		<0.002
9/11/2019		0.00096 (J)
3/18/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.002	
10/28/2011	<0.002	
12/4/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	<0.002	
1/21/2015	<0.002	
7/28/2015	<0.002	
1/27/2016	0.0021 (J)	
1/31/2017	<0.002	
8/4/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		<0.002
6/25/2019		<0.002
9/12/2019		<0.002
3/12/2020		<0.002

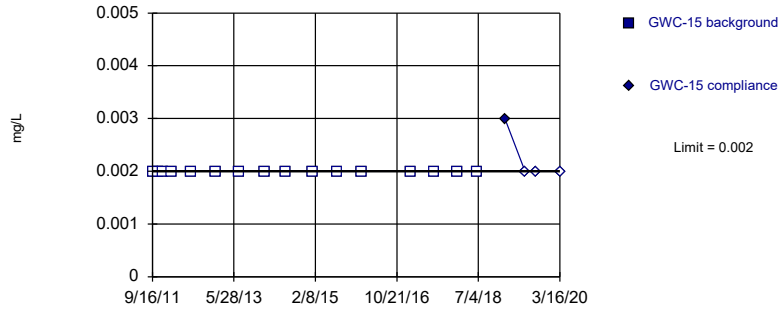
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.002	
10/27/2011	<0.002	
12/3/2011	<0.002	
1/24/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/10/2013	<0.002	
1/21/2014	<0.002	
7/1/2014	0.0014 (J)	
1/14/2015	<0.002	
7/22/2015	<0.002	
1/27/2016	0.0068 (O)	
2/1/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		<0.002
6/25/2019		0.0008 (J)
9/12/2019		0.0017 (J)
3/17/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

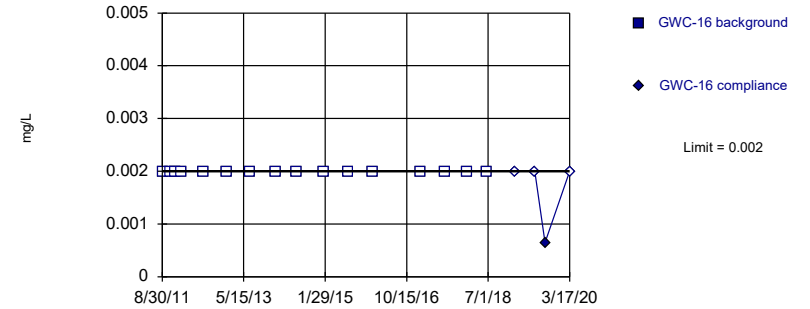


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

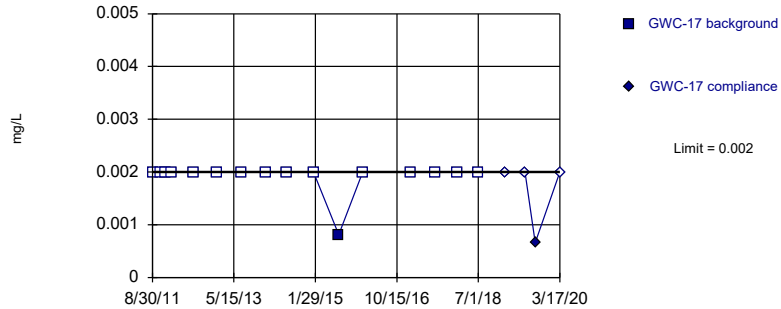


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

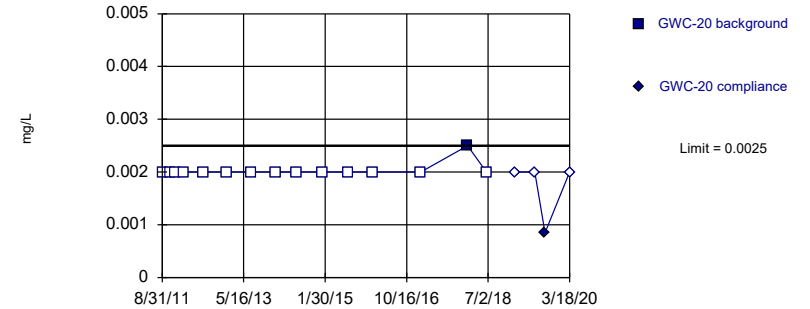


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.002	
10/27/2011	<0.002	
12/3/2011	<0.002	
2/9/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/2/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/14/2015	<0.002	
7/22/2015	<0.002	
1/27/2016	<0.002	
2/1/2017	<0.002	
8/4/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/22/2019		0.003
6/25/2019		<0.002
9/17/2019		<0.002
3/16/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.002	
10/26/2011	<0.002	
12/3/2011	<0.002	
1/25/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/2/2013	<0.002	
1/14/2014	<0.002	
6/25/2014	<0.002	
1/13/2015	<0.002	
7/22/2015	<0.002	
1/27/2016	<0.002	
2/1/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/25/2019		<0.002
6/25/2019		<0.002
9/11/2019		0.00065 (J)
3/17/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.002	
10/26/2011	<0.002	
12/3/2011	<0.002	
1/25/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/14/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/28/2015	0.00081 (J)	
1/27/2016	<0.002	
2/1/2017	<0.002	
8/7/2017	<0.002	
1/25/2018	<0.002	
6/26/2018	<0.002	
1/24/2019		<0.002
6/25/2019		<0.002
9/11/2019		0.00066 (J)
3/17/2020		<0.002

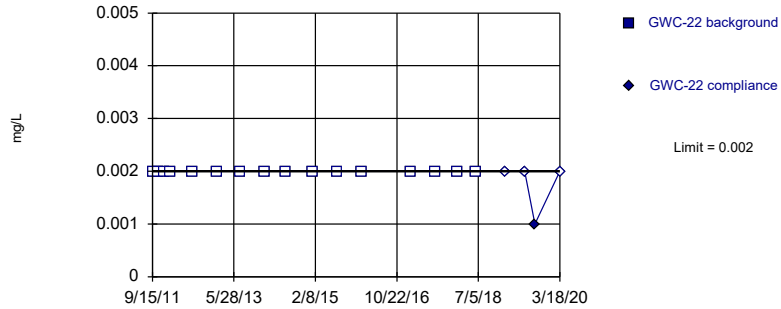
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.002	
10/27/2011	<0.002	
12/4/2011	<0.002	
2/8/2012	<0.002	
7/11/2012	<0.002	
1/8/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/24/2014	<0.002	
1/13/2015	<0.002	
7/23/2015	<0.002	
1/27/2016	<0.002	
2/2/2017	<0.002	
8/7/2017	0.0054 (O)	
1/26/2018	0.0025	
6/21/2018	<0.002	
1/28/2019		<0.002
6/25/2019		<0.002
9/11/2019		0.00085 (J)
3/18/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

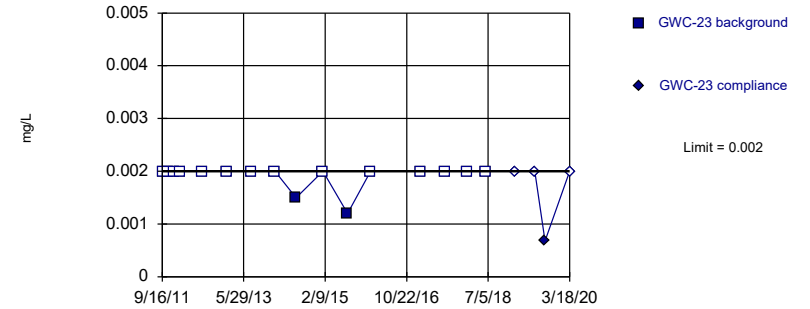


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

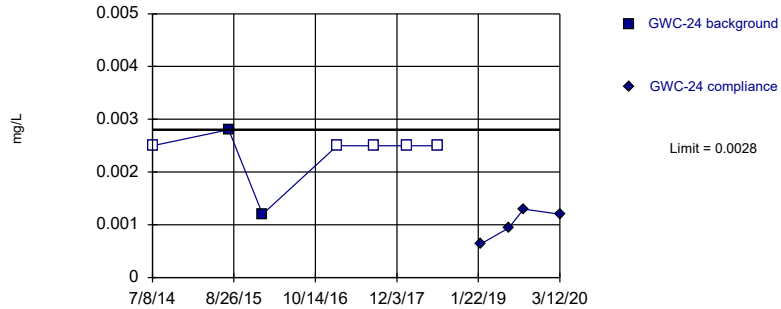


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

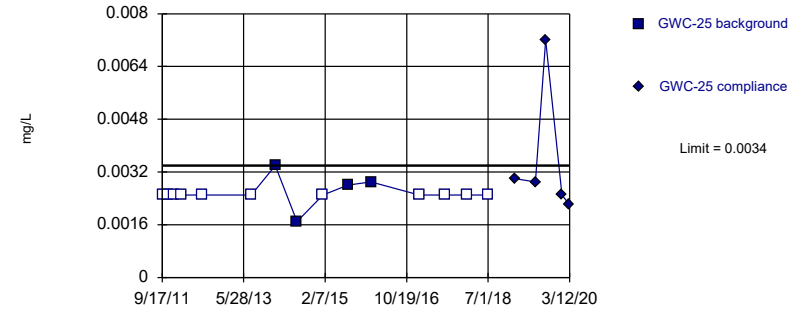


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.002	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	<0.002	
1/22/2013	<0.002	
7/16/2013	<0.002	
1/21/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/23/2015	<0.002	
1/26/2016	<0.002	
2/3/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/24/2019		<0.002
6/25/2019		<0.002
9/10/2019		0.001 (J)
3/18/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.002	
10/29/2011	<0.002	
12/13/2011	<0.002	
1/31/2012	<0.002	
7/18/2012	<0.002	
1/22/2013	<0.002	
7/23/2013	<0.002	
1/22/2014	<0.002	
7/1/2014	0.0015 (J)	
1/22/2015	<0.002	
7/29/2015	0.0012 (J)	
1/21/2016	<0.002	
2/3/2017	<0.002	
8/8/2017	<0.002	
1/25/2018	<0.002	
6/20/2018	<0.002	
1/25/2019		<0.002
6/26/2019		<0.002
9/12/2019		0.00068 (J)
3/18/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.0025	
7/31/2015	0.0028 (J)	
1/20/2016	0.0012 (J)	
2/3/2017	<0.0025	
8/8/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/31/2019		0.00063 (J)
6/26/2019		0.00094 (J)
9/11/2019		0.0013 (J)
3/12/2020		0.0012 (J)

Prediction Limit

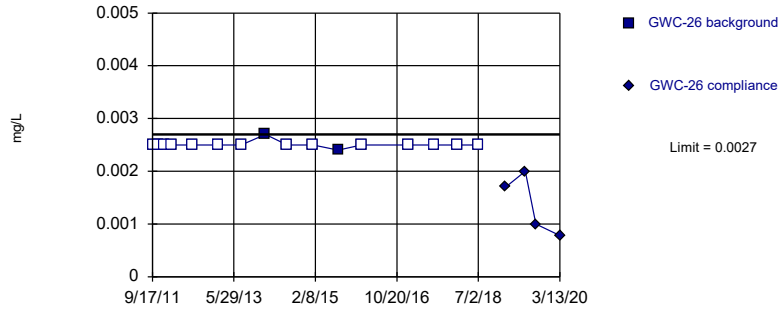
Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0025	
10/31/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
7/24/2013	<0.0025	
1/23/2014	0.0034 (J)	
7/8/2014	0.0017 (J)	
1/21/2015	<0.0025	
7/30/2015	0.0028 (J)	
1/21/2016	0.0029 (J)	
1/24/2017	<0.0025	
8/3/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		0.003
6/25/2019		0.0029
9/11/2019		0.0072
1/14/2020		0.0025
3/12/2020		0.0022

Within Limit

Prediction Limit
Intrawell Non-parametric

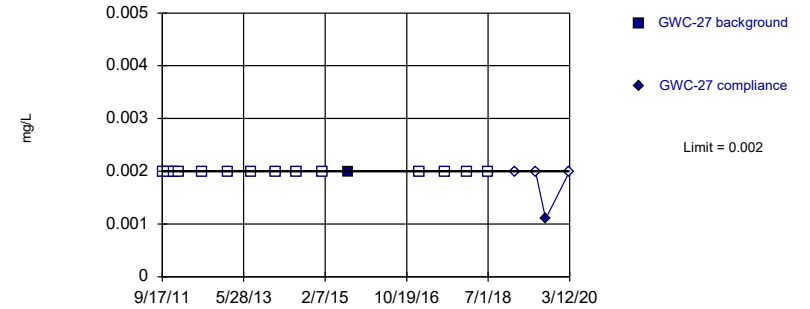


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

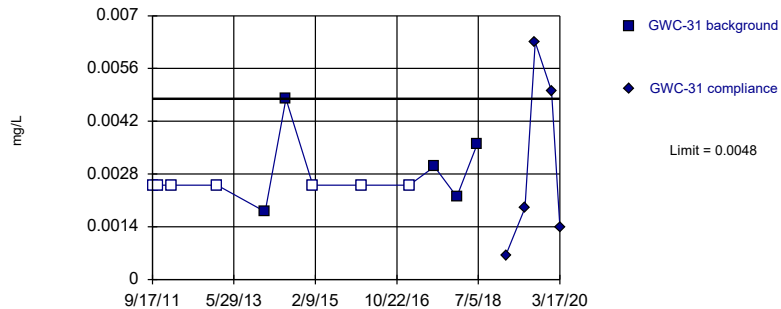


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

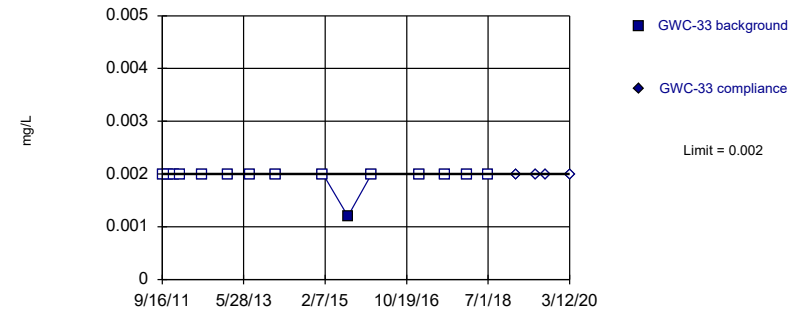


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.0025	
10/29/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	0.0027 (J)	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/31/2015	0.0024 (J)	
1/25/2016	<0.0025	
1/19/2017	<0.0025	
8/3/2017	<0.0025	
1/22/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		0.0017 (J)
6/25/2019		0.002
9/12/2019		0.001 (J)
3/13/2020		0.00078 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.002	
10/29/2011	<0.002	
12/14/2011	<0.002	
1/25/2012	<0.002	
7/17/2012	<0.002	
1/24/2013	<0.002	
7/24/2013	<0.002	
1/23/2014	<0.002	
7/8/2014	<0.002	
1/21/2015	<0.002	
7/30/2015	0.002 (J)	
1/22/2016	0.0038 (JO)	
1/20/2017	<0.002	
8/3/2017	<0.002	
1/19/2018	<0.002	
6/27/2018	<0.002	
1/24/2019		<0.002
6/26/2019		<0.002
9/12/2019		0.0011 (J)
3/12/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.0025	
10/31/2011	<0.0025	
2/7/2012	<0.0025	
1/23/2013	<0.0025	
1/23/2014	0.0018 (J)	
7/1/2014	0.0048 (J)	
1/21/2015	<0.0025	
1/25/2016	<0.0025	
1/25/2017	<0.0025	
8/4/2017	0.003	
1/23/2018	0.0022 (J)	
6/27/2018	0.0036	
1/31/2019		0.00064 (J)
6/26/2019		0.0019 (J)
9/11/2019		0.0063
1/14/2020		0.005
3/17/2020		0.0014 (J)

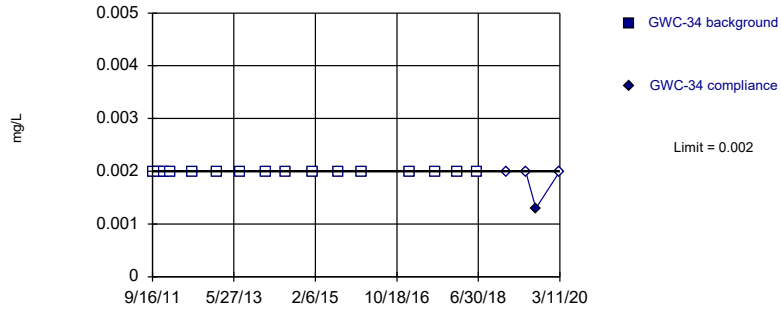
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.002	
10/30/2011	<0.002	
12/13/2011	<0.002	
2/1/2012	<0.002	
7/17/2012	<0.002	
1/23/2013	<0.002	
7/17/2013	<0.002	
1/23/2014	<0.002	
1/20/2015	<0.002	
7/29/2015	0.0012 (J)	
1/25/2016	<0.002	
1/25/2017	<0.002	
8/4/2017	<0.002	
1/23/2018	<0.002	
6/26/2018	<0.002	
1/30/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/12/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

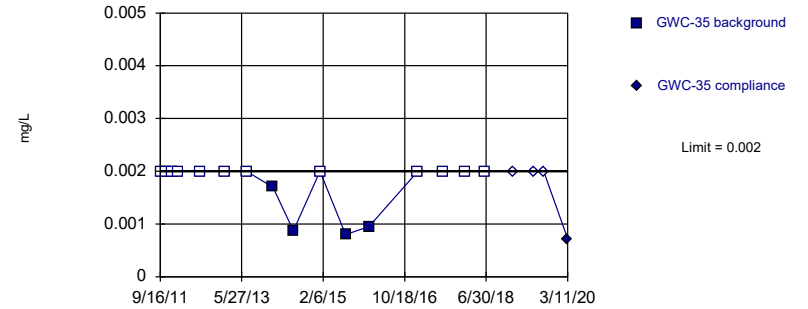


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

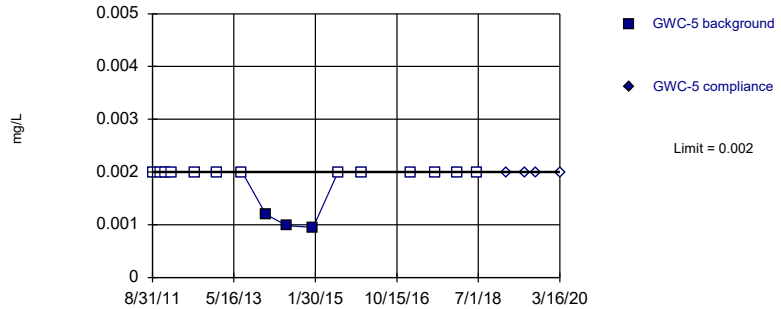


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

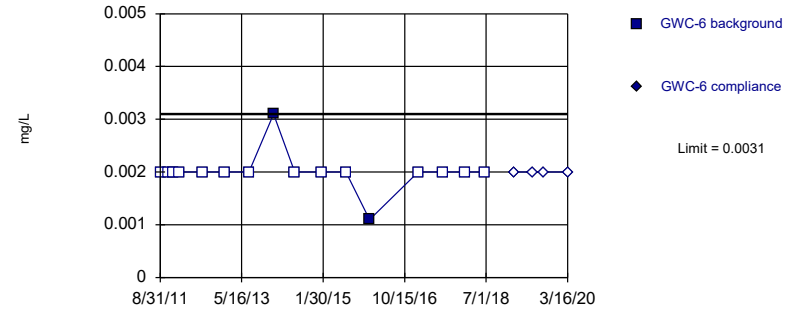


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.002	
10/31/2011	<0.002	
12/12/2011	<0.002	
2/1/2012	<0.002	
7/16/2012	<0.002	
1/22/2013	<0.002	
7/17/2013	<0.002	
1/23/2014	<0.002	
6/25/2014	<0.002	
1/14/2015	<0.002	
7/29/2015	<0.002	
1/21/2016	<0.002	
1/25/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/20/2018	<0.002	
1/28/2019		<0.002
6/26/2019		<0.002
9/11/2019		0.0013 (J)
3/11/2020		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.002	
10/31/2011	<0.002	
12/12/2011	<0.002	
2/1/2012	<0.002	
7/16/2012	<0.002	
1/22/2013	<0.002	
7/2/2013	<0.002	
1/21/2014	0.0017 (J)	
6/25/2014	0.00087 (J)	
1/14/2015	<0.002	
7/28/2015	0.0008 (J)	
1/21/2016	0.00095 (J)	
1/26/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/19/2018	<0.002	
1/21/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/11/2020		0.00072 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.002	
10/27/2011	<0.002	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/18/2012	<0.002	
1/9/2013	<0.002	
7/17/2013	<0.002	
1/15/2014	0.0012 (J)	
6/25/2014	0.00098 (J)	
1/13/2015	0.00095 (J)	
7/24/2015	<0.002	
1/20/2016	<0.002	
1/26/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/30/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/16/2020		<0.002

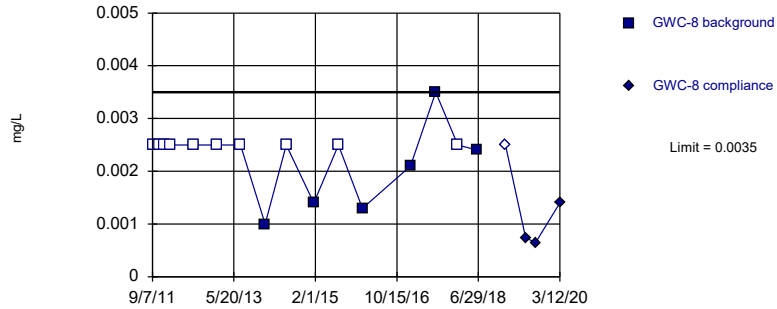
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.002	
10/30/2011	<0.002	
12/5/2011	<0.002	
1/25/2012	<0.002	
7/24/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/15/2014	0.0031 (J)	
6/25/2014	<0.002	
1/20/2015	<0.002	
7/24/2015	<0.002	
1/20/2016	0.0011 (J)	
1/26/2017	<0.002	
8/3/2017	<0.002	
1/23/2018	<0.002	
6/25/2018	<0.002	
1/30/2019		<0.002
6/26/2019		<0.002
9/12/2019		<0.002
3/16/2020		<0.002

Within Limit

Prediction Limit
Intrawell Non-parametric

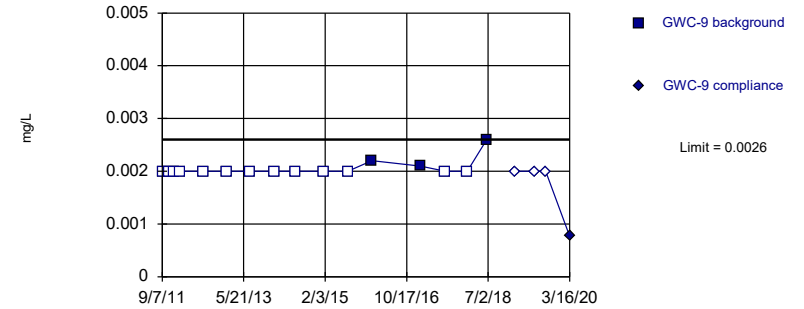


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

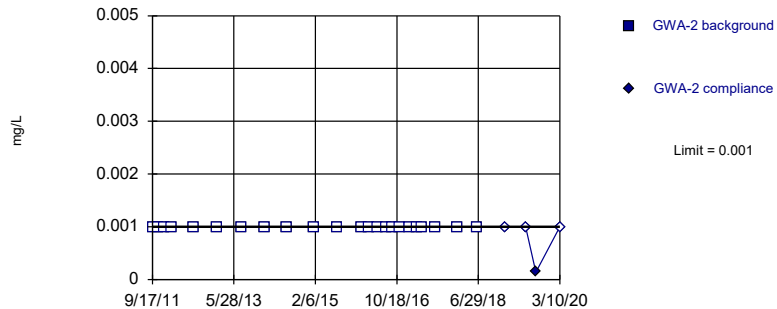


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Copper Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

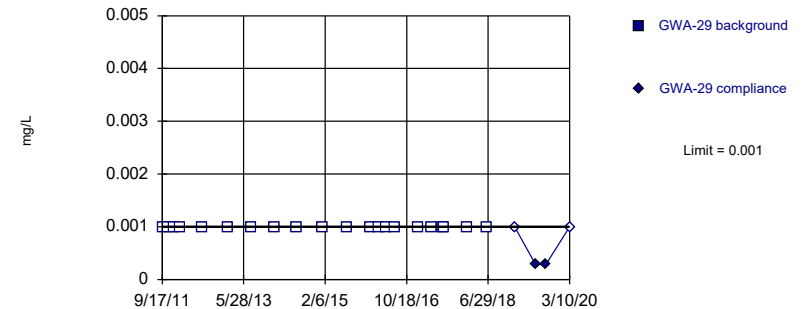


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/19/2012	<0.0025	
7/18/2012	<0.0025	
1/7/2013	<0.0025	
7/9/2013	<0.0025	
1/14/2014	0.001 (J)	
6/24/2014	<0.0025	
1/20/2015	0.0014 (J)	
7/27/2015	<0.0025	
1/26/2016	0.0013 (J)	
1/26/2017	0.0021 (J)	
8/7/2017	0.0035	
1/24/2018	<0.0025	
6/21/2018	0.0024 (J)	
1/22/2019		<0.0025
6/25/2019		0.00074 (J)
9/10/2019		0.00065 (J)
3/12/2020		0.0014 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.002	
10/30/2011	<0.002	
12/4/2011	<0.002	
1/19/2012	<0.002	
7/18/2012	<0.002	
1/8/2013	<0.002	
7/9/2013	<0.002	
1/14/2014	<0.002	
6/24/2014	<0.002	
1/20/2015	<0.002	
7/27/2015	<0.002	
1/26/2016	0.0022 (J)	
1/31/2017	0.0021 (J)	
8/7/2017	<0.002	
1/24/2018	<0.002	
6/21/2018	0.0026	
1/22/2019		<0.002
6/25/2019		<0.002
9/16/2019		<0.002
3/16/2020		0.00077 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/22/2015	<0.001	
1/20/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/16/2016	<0.001	
11/10/2016	<0.001	
1/19/2017	<0.001	
3/17/2017	<0.001	
4/28/2017	<0.001	
8/2/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		<0.001
6/24/2019		<0.001
9/10/2019		0.00014 (J)
3/10/2020		<0.001

Prediction Limit

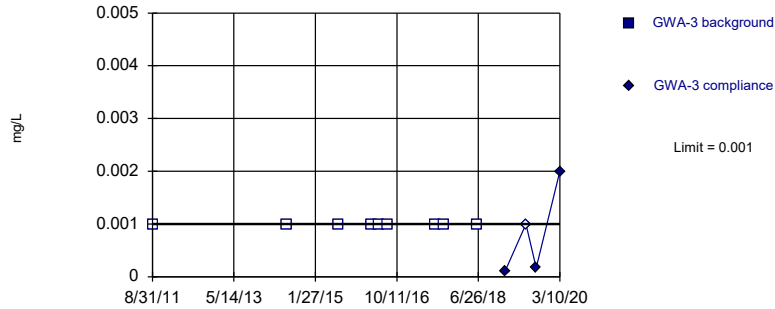
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.001	
10/28/2011	<0.001	
12/12/2011	<0.001	
1/31/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/8/2014	<0.001 (D)	
1/21/2015	<0.001	
7/22/2015	<0.001	
1/19/2016	<0.001 (D)	
3/22/2016	<0.001	
5/19/2016	<0.001	
7/21/2016	<0.001	
1/17/2017	<0.001	
4/27/2017	<0.001	
7/18/2017	<0.001	
8/1/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/18/2019		<0.001
6/25/2019		0.00029 (J)
9/10/2019		0.00028 (J)
3/10/2020		<0.001

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

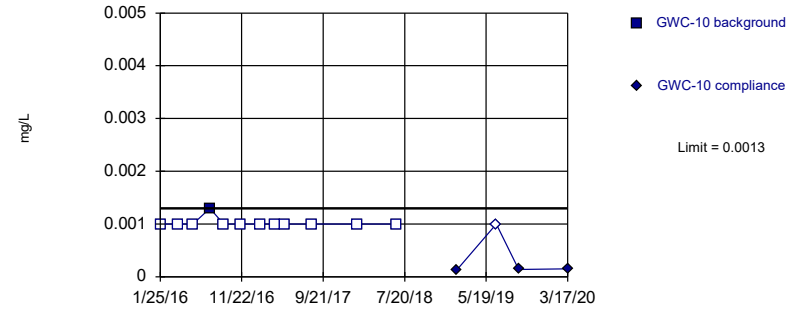


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 9) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

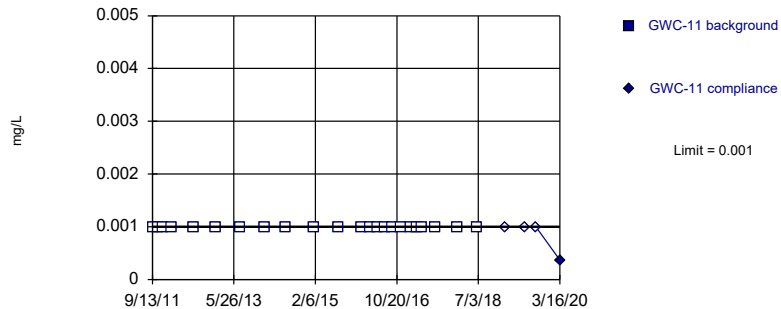


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

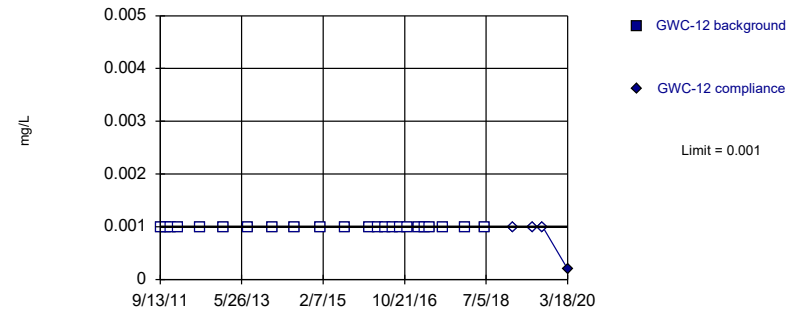


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:35 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.001	
6/25/2014	<0.001	
7/21/2015	<0.001	
3/31/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
8/1/2017	<0.001	
10/3/2017	<0.001	
6/20/2018	<0.001	
1/18/2019		0.00011 (J)
6/25/2019		<0.001
9/11/2019		0.00017 (J)
3/10/2020		0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	0.0013	
9/16/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/31/2019		0.00013 (J)
6/26/2019		<0.001
9/17/2019		0.00014 (J)
3/17/2020		0.00015 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00037 (J)

Prediction Limit

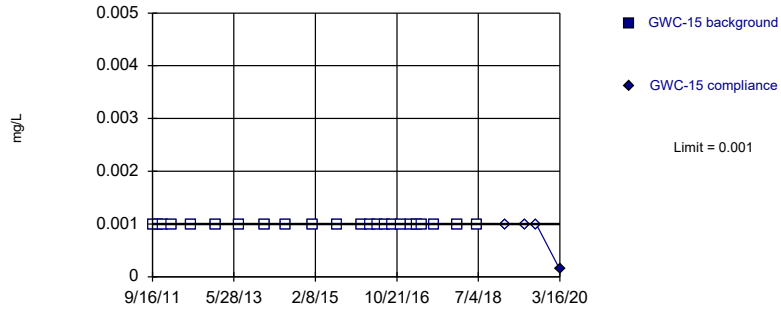
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/22/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/11/2019		<0.001
3/18/2020		0.0002 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

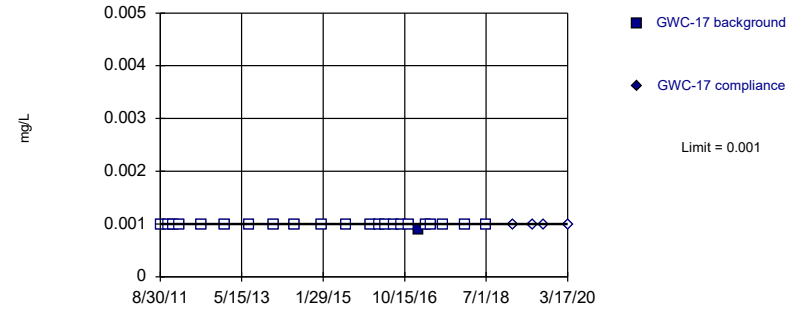


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

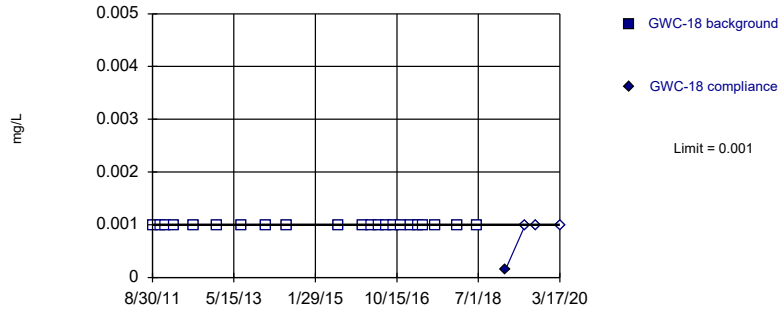


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

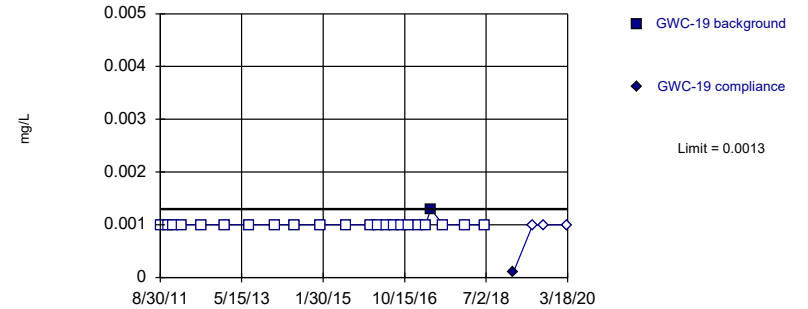


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
2/9/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/17/2019		<0.001
3/16/2020		0.00014 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	0.0009 (J)	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/26/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/9/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	0.0026 (JO)	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		0.00016 (J)
6/27/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Prediction Limit

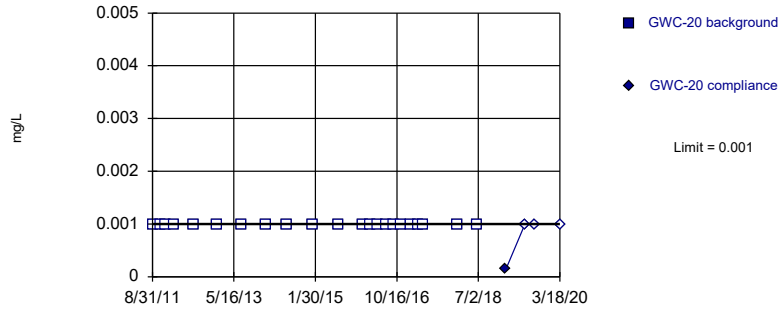
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	0.0013	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		0.00011 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

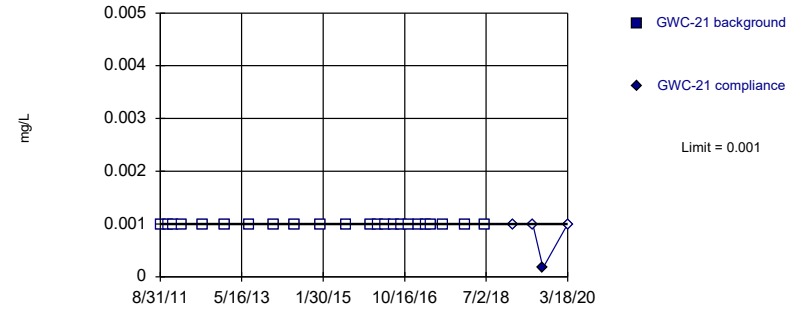


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

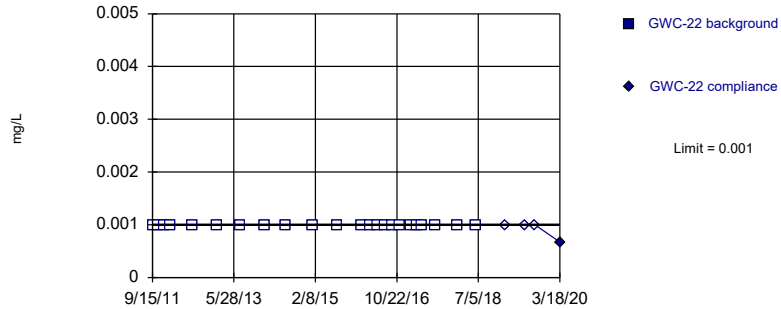


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

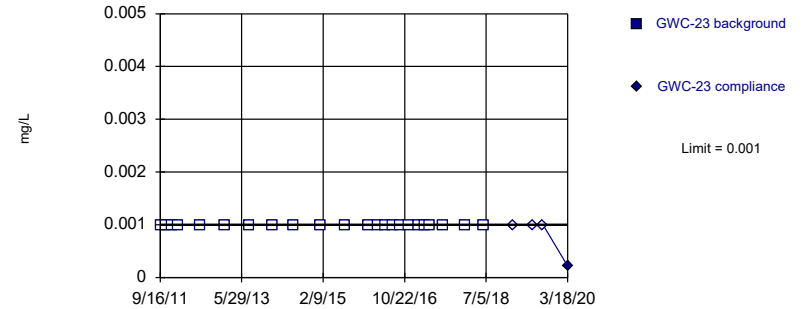


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/7/2017	0.011 (O)	
1/26/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		0.00014 (J)
6/25/2019		<0.001
9/11/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/17/2012	<0.001	
1/9/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/11/2019		0.00017 (J)
3/18/2020		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/18/2020		0.00067 (J)

Prediction Limit

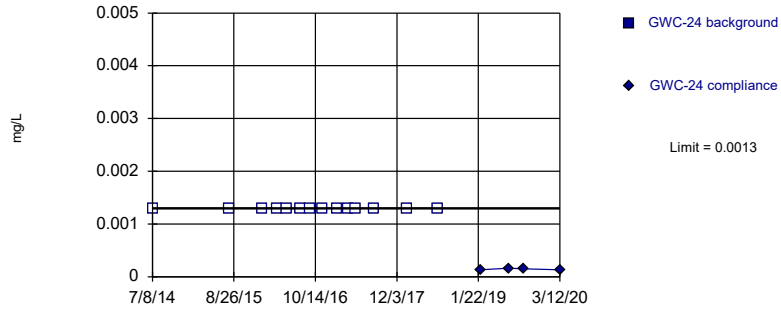
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/20/2016	<0.001	
11/18/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		0.00022 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

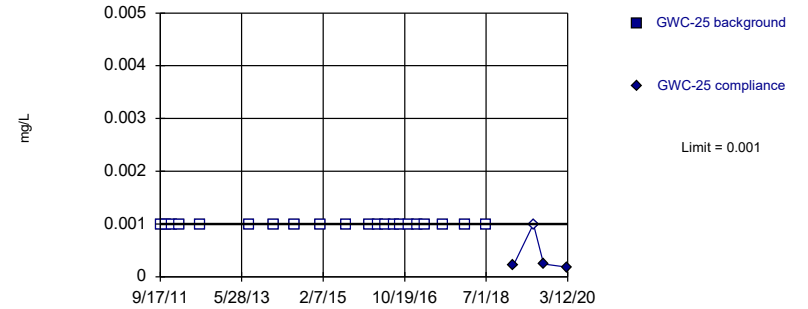


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 14) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

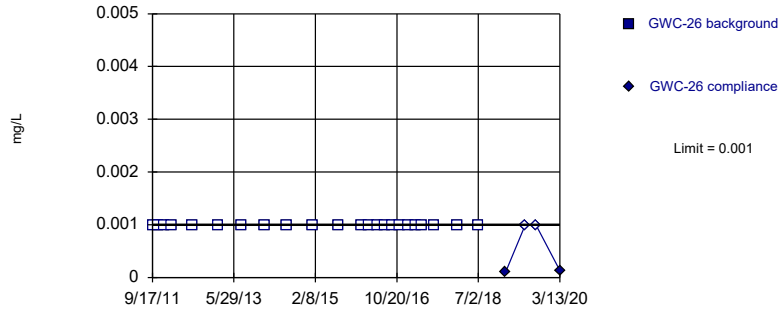


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

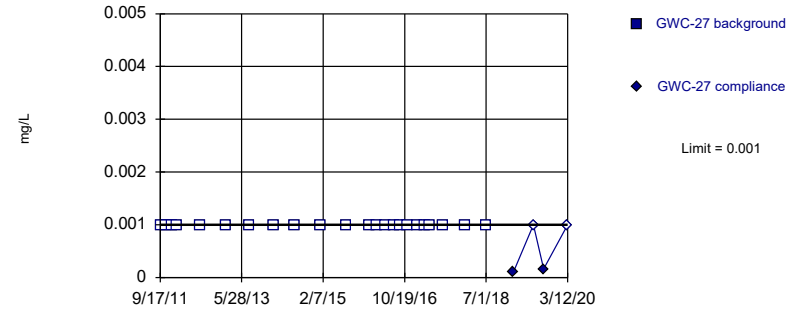


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.0013	
7/31/2015	<0.0013	
1/20/2016	<0.0013	
3/30/2016	<0.0013	
5/25/2016	<0.0013	
7/27/2016	<0.0013	
9/16/2016	<0.0013	
11/18/2016	<0.0013	
2/3/2017	<0.0013	
3/29/2017	<0.0013	
5/4/2017	<0.0013	
8/8/2017	<0.0013	
1/25/2018	<0.0013	
6/27/2018	<0.0013	
1/31/2019		0.00013 (J)
6/26/2019		0.00016 (J)
9/11/2019		0.00015 (J)
3/12/2020		0.00013 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.001	
10/31/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/21/2016	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/19/2016	<0.001	
11/15/2016	<0.001	
1/24/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	0.0021 (O)	
8/3/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.00021 (J)
6/25/2019		<0.001
9/11/2019		0.00024 (J)
3/12/2020		0.00018 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/31/2015	<0.001	
1/25/2016	<0.001	
3/24/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/14/2016	<0.001	
1/19/2017	<0.001	
3/16/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/22/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		9.8E-05 (J)
6/25/2019		<0.001
9/12/2019		<0.001
3/13/2020		0.00013 (J)

Prediction Limit

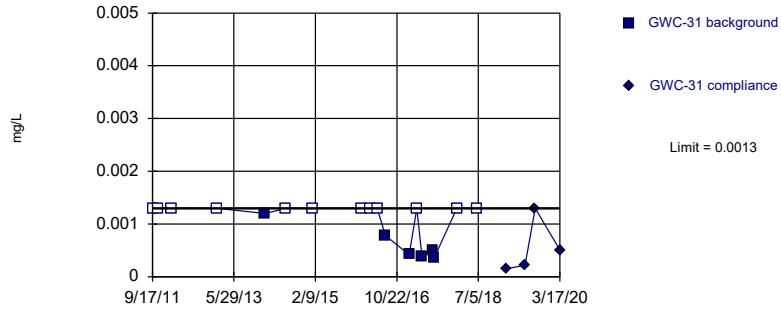
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
1/25/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/22/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/11/2016	<0.001	
1/20/2017	<0.001	
3/16/2017	<0.001	
4/28/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		9.8E-05 (J)
6/26/2019		<0.001
9/12/2019		0.00016 (J)
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

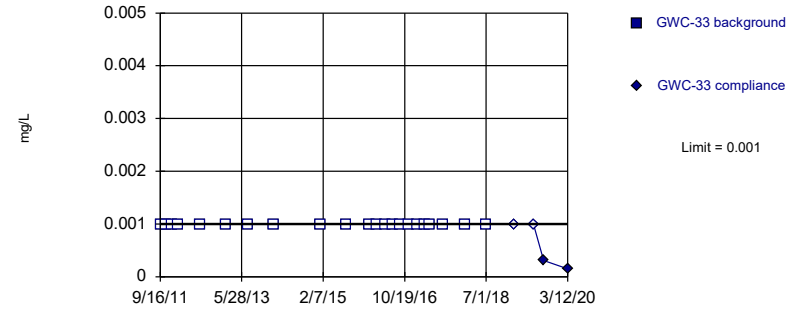


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

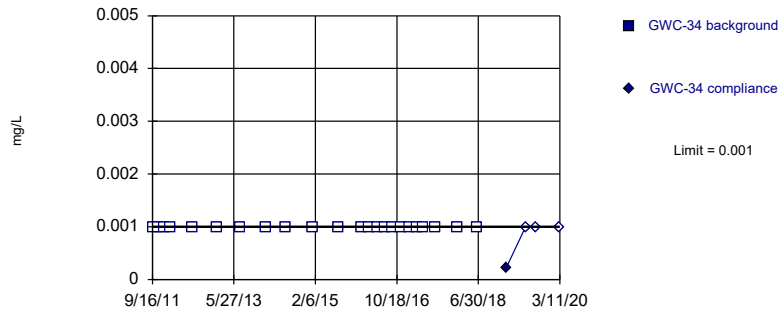


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

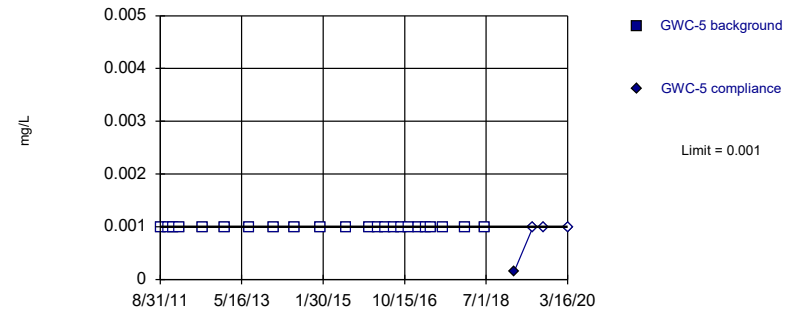


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.0013	
10/31/2011	<0.0013	
2/7/2012	<0.0013	
1/23/2013	<0.0013	
1/23/2014	0.0012 (J)	
7/1/2014	<0.0013	
1/21/2015	<0.0013	
1/25/2016	<0.0013	
3/30/2016	<0.0013	
5/25/2016	<0.0013	
7/27/2016	0.00078 (J)	
1/25/2017	0.00042 (J)	
3/23/2017	<0.0013	
5/2/2017	0.00039 (J)	
7/19/2017	0.00051 (J)	
8/4/2017	0.00037 (J)	
1/23/2018	<0.0013	
6/27/2018	<0.0013	
1/31/2019		0.00015 (J)
6/26/2019		0.00022 (J)
9/11/2019		0.0013
3/17/2020		0.00051 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.001	
10/30/2011	<0.001	
12/13/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
1/20/2015	<0.001	
7/29/2015	<0.001	
1/25/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/22/2016	<0.001	
9/16/2016	<0.001	
11/17/2016	<0.001	
1/25/2017	<0.001	
3/23/2017	<0.001	
5/1/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	<0.001	
6/26/2018	<0.001	
1/30/2019		<0.001
6/26/2019		<0.001
9/12/2019		0.00031 (J)
3/12/2020		0.00015 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
3/24/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/25/2017	<0.001	
3/22/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/20/2018	<0.001	
1/28/2019		0.00022 (J)
6/26/2019		<0.001
9/11/2019		<0.001
3/11/2020		<0.001

Prediction Limit

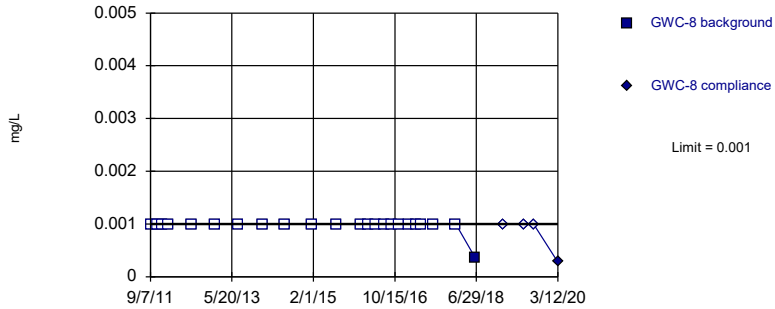
Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.001	
10/27/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/9/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	<0.001	
3/28/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/25/2018	<0.001	
1/30/2019		0.00014 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/16/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

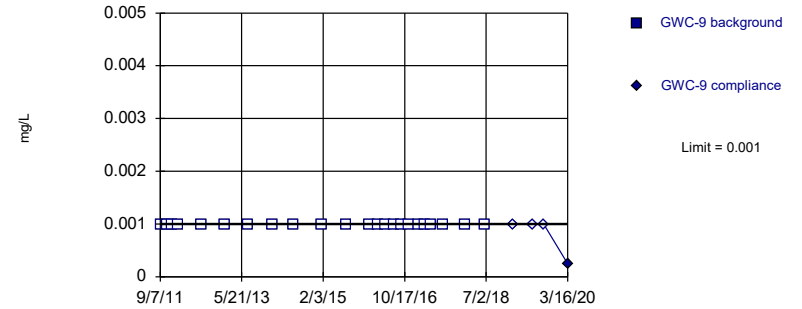


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

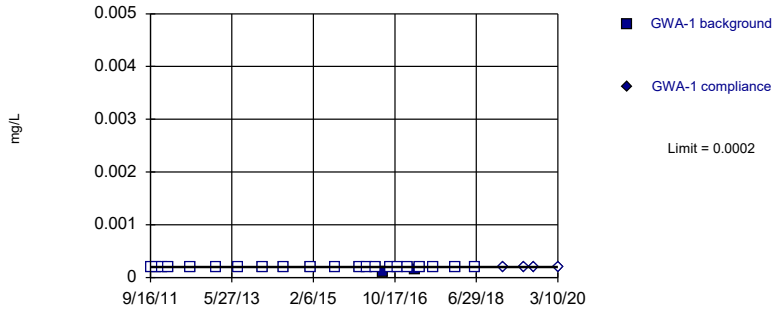


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Lead Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

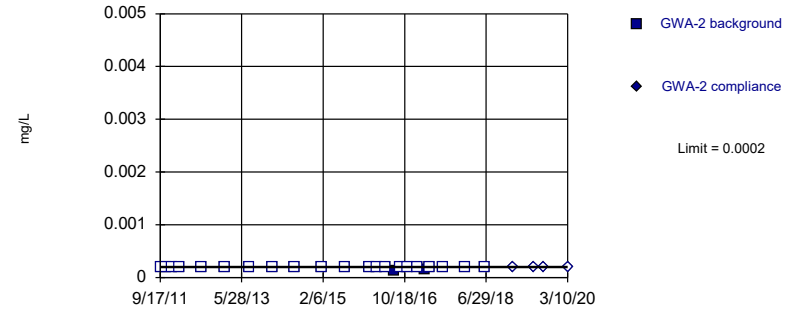


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/20/2015	<0.001	
7/27/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	0.00036 (J)	
1/22/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/12/2020		0.00028 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.001	
10/30/2011	<0.001	
12/4/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/20/2015	<0.001	
7/27/2015	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00025 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0002	
10/27/2011	<0.0002	
12/13/2011	<0.0002	
1/31/2012	<0.0002	
7/18/2012	<0.0002	
1/24/2013	<0.0002	
7/17/2013	<0.0002	
1/21/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/21/2015	<0.0002	
1/21/2016	<0.0002	
3/23/2016	<0.0002	
5/20/2016	<0.0002	
7/21/2016	9.7E-05 (J)	
9/15/2016	<0.0002	
11/11/2016	<0.0002	
1/19/2017	<0.0002	
3/16/2017	0.00015 (J)	
4/28/2017	<0.0002	
8/3/2017	<0.0002	
1/19/2018	<0.0002	
6/19/2018	<0.0002	
1/17/2019		<0.0002
6/24/2019		<0.0002
9/9/2019		<0.0002
3/10/2020		<0.0002

Prediction Limit

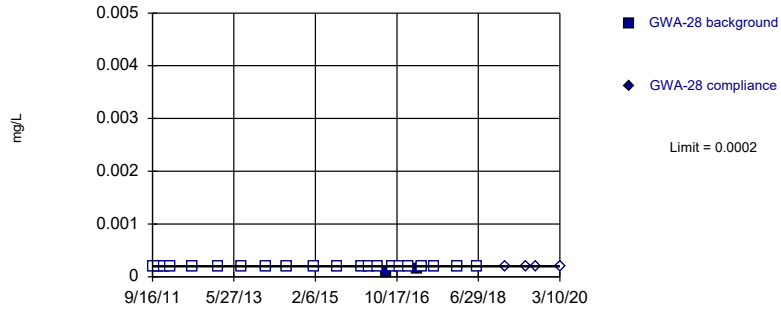
Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.0002	
10/27/2011	<0.0002	
12/14/2011	<0.0002	
2/7/2012	<0.0002	
7/23/2012	<0.0002	
1/23/2013	<0.0002	
7/24/2013	<0.0002	
1/22/2014	<0.0002	
7/1/2014	<0.0002	
1/22/2015	<0.0002	
7/22/2015	<0.0002	
1/20/2016	<0.0002	
3/23/2016	<0.0002	
5/24/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/16/2016	<0.0002	
11/10/2016	<0.0002	
1/19/2017	<0.0002	
3/17/2017	0.00015 (J)	
4/28/2017	<0.0002	
8/2/2017	<0.0002	
1/19/2018	<0.0002	
6/19/2018	<0.0002	
1/17/2019		<0.0002
6/24/2019		<0.0002
9/10/2019		<0.0002
3/10/2020		<0.0002

Within Limit

Prediction Limit
Intrawell Non-parametric

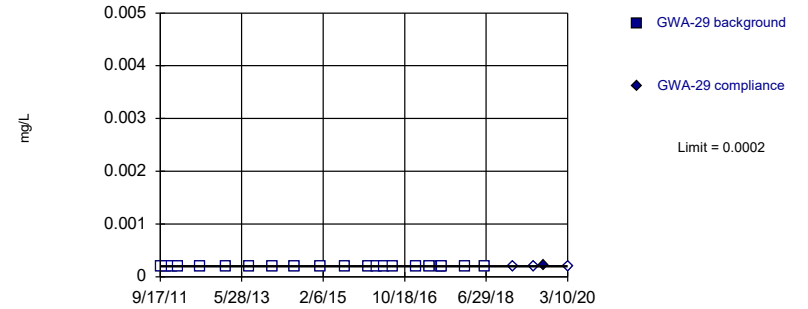


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

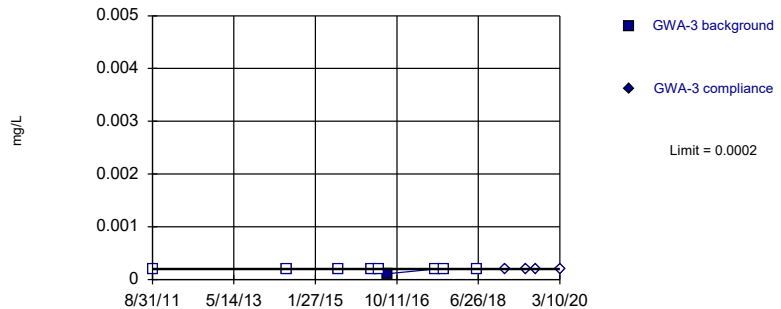


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

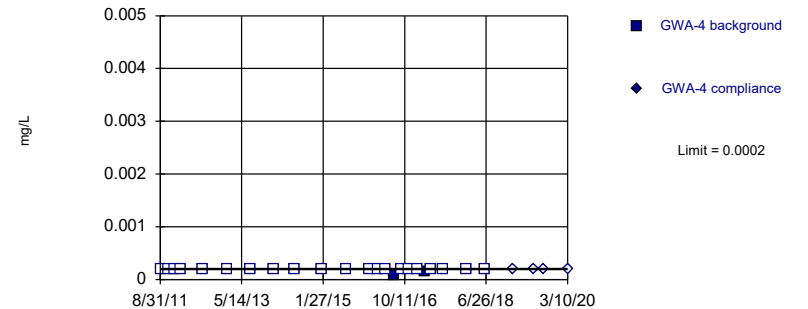


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.0002	
10/28/2011	<0.0002	
12/12/2011	<0.0002	
1/25/2012	<0.0002	
7/16/2012	<0.0002	
1/24/2013	<0.0002	
7/23/2013	<0.0002	
1/22/2014	<0.0002	
7/1/2014	<0.0002	
1/21/2015	<0.0002	
7/21/2015	<0.0002	
1/22/2016	<0.0002	
3/22/2016	<0.0002	
5/23/2016	<0.0002	
7/25/2016	8.9E-05 (J)	
9/15/2016	<0.0002	
11/9/2016	<0.0002	
1/17/2017	<0.0002	
3/16/2017	0.00016 (J)	
4/27/2017	<0.0002	
8/1/2017	<0.0002	
1/19/2018	<0.0002	
6/19/2018	<0.0002	
1/21/2019		<0.0002
6/25/2019		<0.0002
9/10/2019		<0.0002
3/10/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.0002	
10/28/2011	<0.0002	
12/12/2011	<0.0002	
1/31/2012	<0.0002	
7/17/2012	<0.0002	
1/24/2013	<0.0002	
7/24/2013	<0.0002	
1/22/2014	<0.0002	
7/8/2014	<0.0002 (D)	
1/21/2015	<0.0002	
7/22/2015	<0.0002	
1/19/2016	<0.0002 (D)	
3/22/2016	<0.0002	
5/19/2016	<0.0002	
7/21/2016	<0.0002	
1/17/2017	<0.0002	
4/27/2017	<0.0002	
7/18/2017	<0.0002	
8/1/2017	<0.0002	
1/19/2018	<0.0002	
6/19/2018	<0.0002	
1/18/2019		<0.0002
6/25/2019		<0.0002
9/10/2019		0.00021
3/10/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.0002	
6/25/2014	<0.0002	
7/21/2015	<0.0002	
3/31/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	0.00011 (J)	
8/1/2017	<0.0002	
10/3/2017	<0.0002	
6/20/2018	<0.0002	
1/18/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/10/2020		<0.0002

Prediction Limit

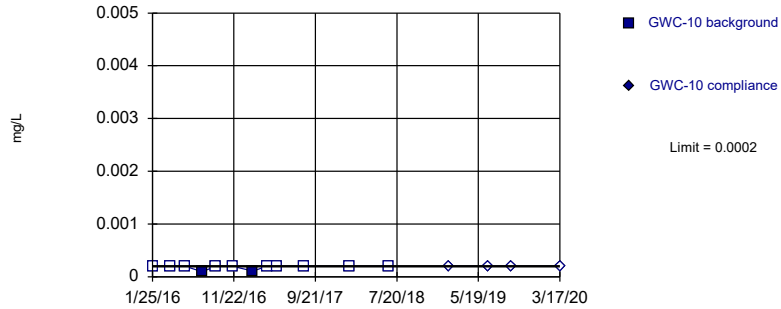
Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.0002	
10/27/2011	<0.0002	
12/14/2011	<0.0002	
2/1/2012	<0.0002	
7/23/2012	<0.0002	
1/23/2013	<0.0002	
7/17/2013	<0.0002	
1/15/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/21/2015	<0.0002	
1/20/2016	<0.0002	
3/23/2016	<0.0002	
5/19/2016	<0.0002	
7/21/2016	8.7E-05 (J)	
9/14/2016	<0.0002	
11/10/2016	<0.0002	
1/17/2017	<0.0002	
3/16/2017	0.00016 (J)	
4/27/2017	<0.0002	
8/2/2017	<0.0002	
1/22/2018	<0.0002	
6/19/2018	<0.0002	
1/17/2019		<0.0002
6/24/2019		<0.0002
9/10/2019		<0.0002
3/10/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

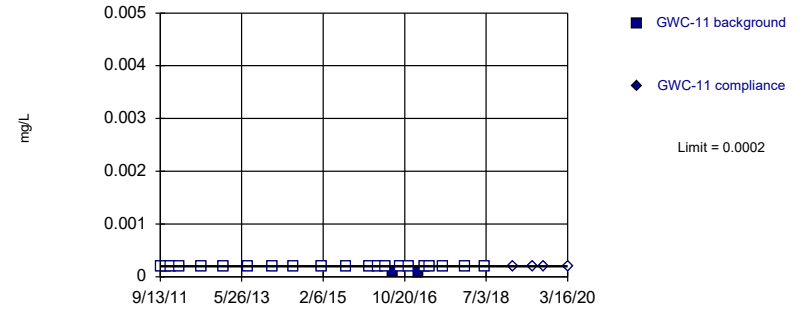


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

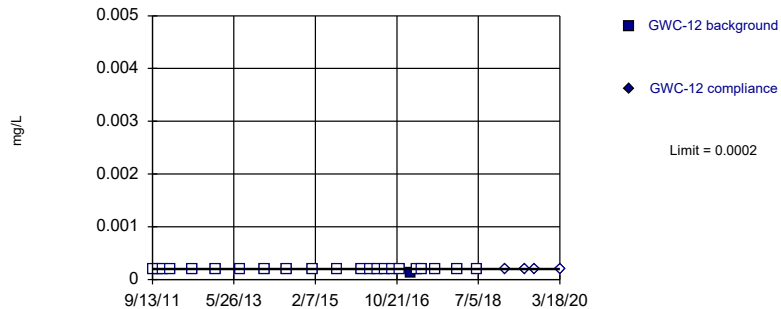


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

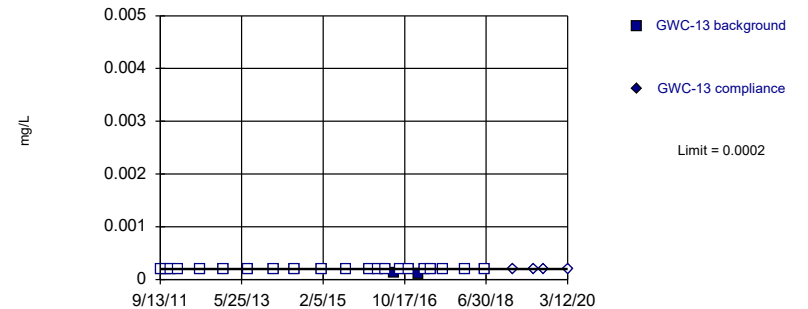


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	9.4E-05 (J)	
9/16/2016	<0.0002	
11/17/2016	<0.0002	
2/1/2017	0.00011 (J)	
3/24/2017	<0.0002	
5/3/2017	<0.0002	
8/8/2017	<0.0002	
1/25/2018	<0.0002	
6/21/2018	<0.0002	
1/31/2019		<0.0002
6/26/2019		<0.0002
9/17/2019		<0.0002
3/17/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.0002	
10/28/2011	<0.0002	
12/4/2011	<0.0002	
2/9/2012	<0.0002	
7/18/2012	<0.0002	
1/8/2013	<0.0002	
7/9/2013	<0.0002	
1/15/2014	<0.0002	
6/25/2014	<0.0002	
1/21/2015	<0.0002	
7/28/2015	<0.0002	
1/26/2016	<0.0002	
3/29/2016	<0.0002	
5/25/2016	<0.0002	
7/25/2016	9.6E-05 (J)	
9/19/2016	<0.0002	
11/16/2016	<0.0002	
1/31/2017	7.1E-05 (J)	
3/23/2017	<0.0002	
5/2/2017	<0.0002	
8/7/2017	<0.0002	
1/24/2018	<0.0002	
6/20/2018	<0.0002	
1/24/2019		<0.0002
6/26/2019		<0.0002
9/16/2019		<0.0002
3/16/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.0002	
10/28/2011	<0.0002	
12/4/2011	<0.0002	
1/24/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/10/2013	<0.0002	
1/21/2014	<0.0002	
7/1/2014	<0.0002	
1/21/2015	<0.0002	
7/28/2015	<0.0002	
1/26/2016	<0.0002	
3/29/2016	<0.0002	
5/25/2016	<0.0002	
7/22/2016	<0.0002	
9/15/2016	<0.0002	
11/16/2016	<0.0002	
1/31/2017	0.00013 (J)	
3/23/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/24/2018	<0.0002	
6/26/2018	<0.0002	
1/25/2019		<0.0002
6/26/2019		<0.0002
9/11/2019		<0.0002
3/18/2020		<0.0002

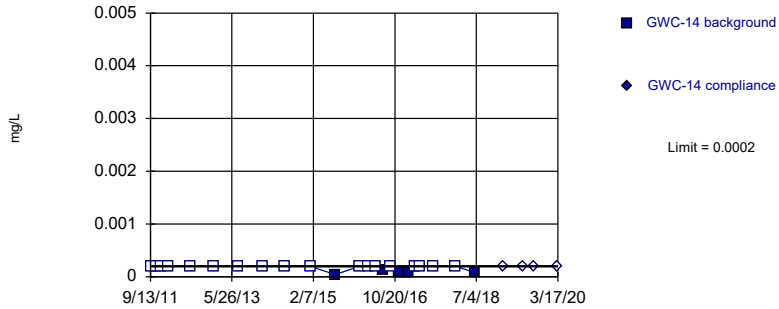
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.0002	
10/28/2011	<0.0002	
12/4/2011	<0.0002	
1/24/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/10/2013	<0.0002	
1/21/2014	<0.0002	
7/1/2014	<0.0002	
1/21/2015	<0.0002	
7/28/2015	<0.0002	
1/27/2016	<0.0002	
3/29/2016	<0.0002	
5/25/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/15/2016	<0.0002	
11/17/2016	<0.0002	
1/31/2017	9.6E-05 (J)	
3/23/2017	<0.0002	
5/3/2017	<0.0002	
8/4/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	<0.0002	
1/22/2019		<0.0002
6/25/2019		<0.0002
9/12/2019		<0.0002
3/12/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

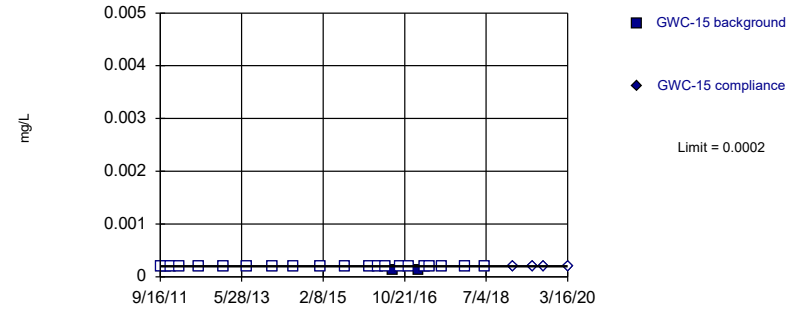


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

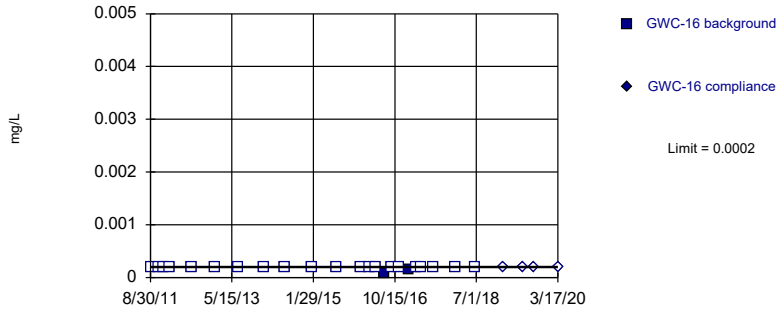


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

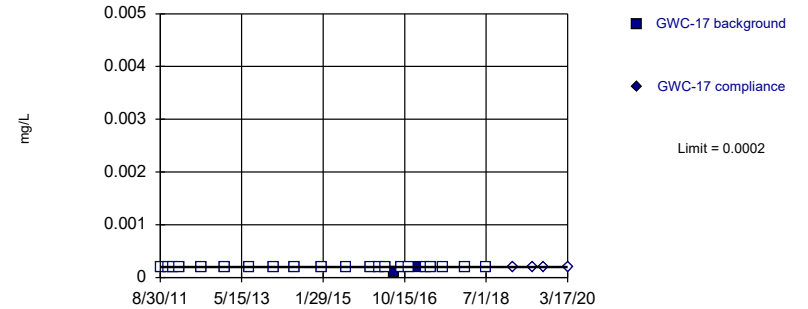


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.0002	
10/27/2011	<0.0002	
12/3/2011	<0.0002	
1/24/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/10/2013	<0.0002	
1/21/2014	<0.0002	
7/1/2014	<0.0002	
1/14/2015	<0.0002	
7/22/2015	3.99E-05 (J)	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/15/2016	<0.0002	
11/17/2016	8.7E-05 (J)	
2/1/2017	9.2E-05 (J)	
3/23/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	8.5E-05 (J)	
1/22/2019		<0.0002
6/25/2019		<0.0002
9/12/2019		<0.0002
3/17/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.0002	
10/27/2011	<0.0002	
12/3/2011	<0.0002	
2/9/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/2/2013	<0.0002	
1/21/2014	<0.0002	
6/24/2014	<0.0002	
1/14/2015	<0.0002	
7/22/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/20/2016	<0.0002	
11/17/2016	<0.0002	
2/1/2017	0.00013 (J)	
3/23/2017	<0.0002	
5/3/2017	<0.0002	
8/4/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	<0.0002	
1/22/2019		<0.0002
6/25/2019		<0.0002
9/17/2019		<0.0002
3/16/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.0002	
10/26/2011	<0.0002	
12/3/2011	<0.0002	
1/25/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/2/2013	<0.0002	
1/14/2014	<0.0002	
6/25/2014	<0.0002	
1/13/2015	<0.0002	
7/22/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	8.9E-05 (J)	
9/16/2016	<0.0002	
11/17/2016	<0.0002	
2/1/2017	0.00015 (J)	
3/24/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	<0.0002	
1/25/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/17/2020		<0.0002

Prediction Limit

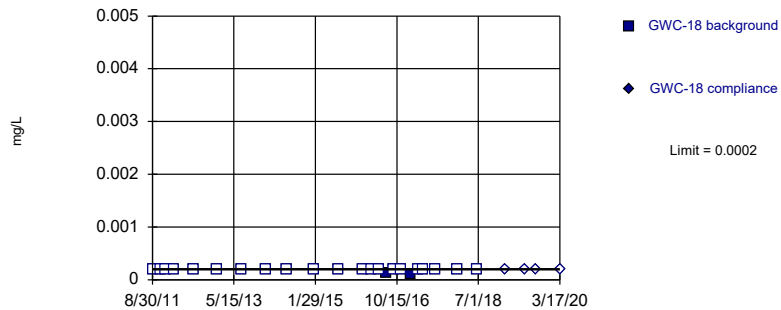
Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.0002	
10/26/2011	<0.0002	
12/3/2011	<0.0002	
1/25/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/16/2013	<0.0002	
1/14/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/28/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	9.7E-05 (J)	
9/19/2016	<0.0002	
11/17/2016	<0.0002	
2/1/2017	0.0002	
3/24/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/25/2018	<0.0002	
6/26/2018	<0.0002	
1/24/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/17/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

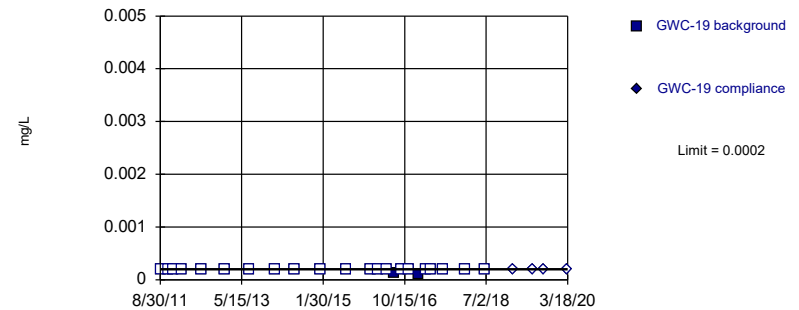


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

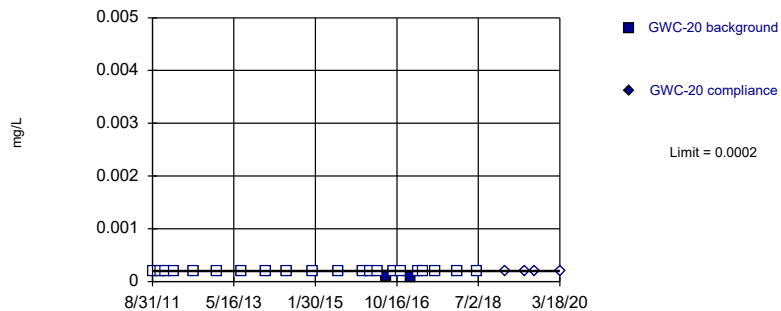


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

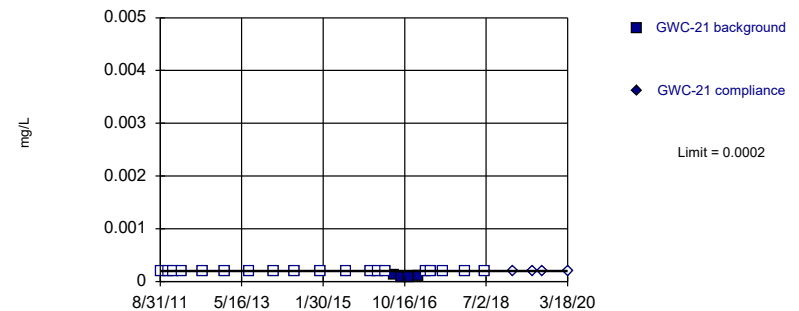


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.0002	
10/26/2011	<0.0002	
12/3/2011	<0.0002	
2/9/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/16/2013	<0.0002	
1/14/2014	<0.0002	
6/24/2014	<0.0002	
1/13/2015	<0.0002	
7/23/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/26/2016	<0.0002	
7/25/2016	0.00012 (J)	
9/19/2016	<0.0002	
11/17/2016	<0.0002	
2/1/2017	9.8E-05 (J)	
3/24/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/25/2018	<0.0002	
6/21/2018	<0.0002	
1/28/2019		<0.0002
6/27/2019		<0.0002
9/11/2019		<0.0002
3/17/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.0002	
10/26/2011	<0.0002	
12/3/2011	<0.0002	
2/8/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/16/2013	<0.0002	
1/21/2014	<0.0002	
6/24/2014	<0.0002	
1/13/2015	<0.0002	
7/23/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/26/2016	<0.0002	
7/25/2016	0.00013 (J)	
9/19/2016	<0.0002	
11/17/2016	<0.0002	
2/2/2017	0.00011 (J)	
3/24/2017	<0.0002	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/25/2018	<0.0002	
6/21/2018	<0.0002	
1/28/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/18/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.0002	
10/27/2011	<0.0002	
12/4/2011	<0.0002	
2/8/2012	<0.0002	
7/11/2012	<0.0002	
1/8/2013	<0.0002	
7/16/2013	<0.0002	
1/21/2014	<0.0002	
6/24/2014	<0.0002	
1/13/2015	<0.0002	
7/23/2015	<0.0002	
1/27/2016	<0.0002	
3/30/2016	<0.0002	
5/26/2016	<0.0002	
7/25/2016	0.00011 (J)	
9/20/2016	<0.0002	
11/17/2016	<0.0002	
2/2/2017	8.6E-05 (J)	
3/28/2017	<0.0002	
5/4/2017	<0.0002	
8/7/2017	<0.0002	
1/26/2018	<0.0002	
6/21/2018	<0.0002	
1/28/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/18/2020		<0.0002

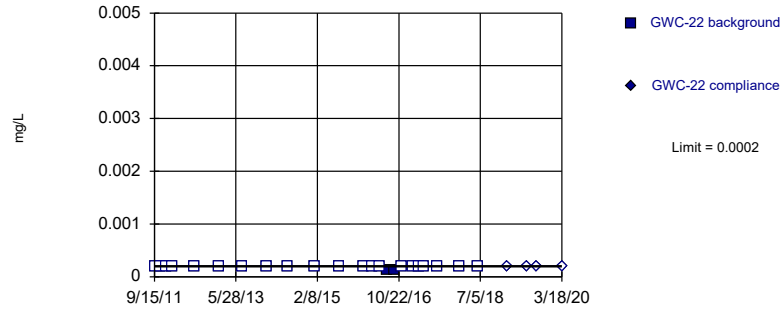
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.0002	
10/27/2011	<0.0002	
12/4/2011	<0.0002	
2/8/2012	<0.0002	
7/17/2012	<0.0002	
1/9/2013	<0.0002	
7/16/2013	<0.0002	
1/21/2014	<0.0002	
6/24/2014	<0.0002	
1/13/2015	<0.0002	
7/23/2015	<0.0002	
1/26/2016	<0.0002	
3/30/2016	<0.0002	
5/26/2016	<0.0002	
7/26/2016	0.00013 (J)	
9/20/2016	7.2E-05 (J)	
11/17/2016	8.4E-05 (J)	
2/2/2017	0.00011 (J)	
3/28/2017	<0.0002	
5/4/2017	<0.0002	
8/7/2017	<0.0002	
1/26/2018	<0.0002	
6/20/2018	<0.0002	
1/24/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/18/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

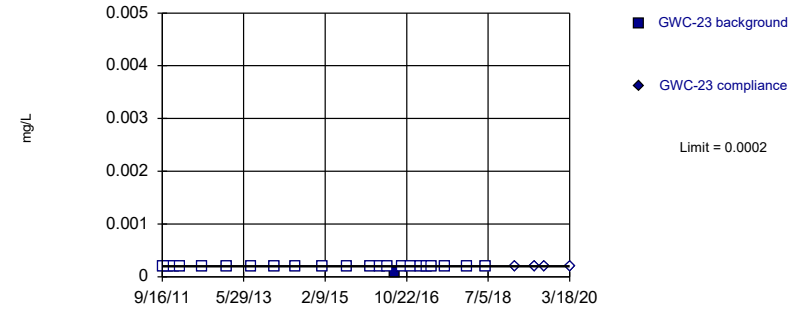


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

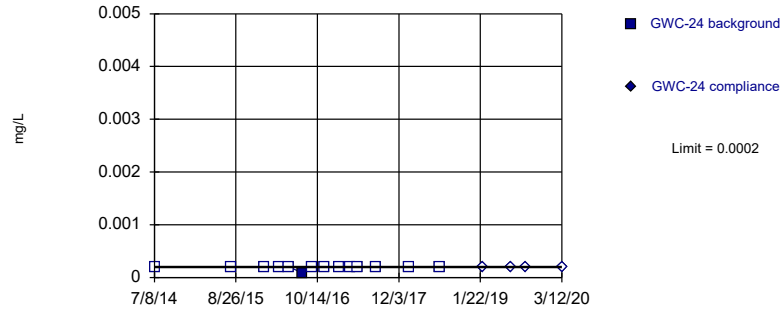


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

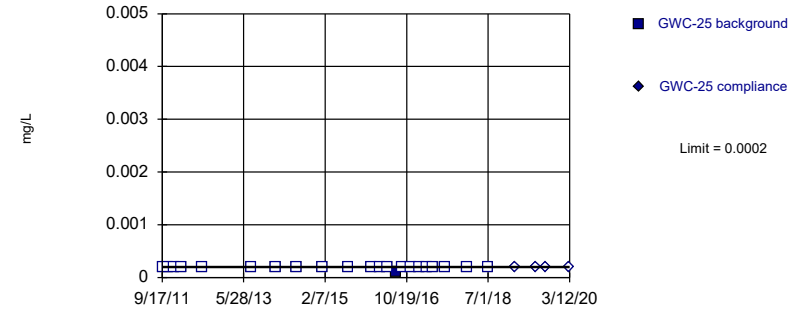


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.0002	
10/29/2011	<0.0002	
12/13/2011	<0.0002	
1/25/2012	<0.0002	
7/18/2012	<0.0002	
1/22/2013	<0.0002	
7/16/2013	<0.0002	
1/21/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/23/2015	<0.0002	
1/26/2016	<0.0002	
3/31/2016	<0.0002	
5/26/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/20/2016	0.00013 (J)	
11/17/2016	<0.0002	
2/3/2017	<0.0002	
3/28/2017	<0.0002	
5/3/2017	<0.0002	
8/8/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	<0.0002	
1/24/2019		<0.0002
6/25/2019		<0.0002
9/10/2019		<0.0002
3/18/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.0002	
10/29/2011	<0.0002	
12/13/2011	<0.0002	
1/31/2012	<0.0002	
7/18/2012	<0.0002	
1/22/2013	<0.0002	
7/23/2013	<0.0002	
1/22/2014	<0.0002	
7/1/2014	<0.0002	
1/22/2015	<0.0002	
7/29/2015	<0.0002	
1/21/2016	<0.0002	
3/29/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	8.6E-05 (J)	
9/20/2016	<0.0002	
11/18/2016	<0.0002	
2/3/2017	<0.0002	
3/28/2017	<0.0002	
5/4/2017	<0.0002	
8/8/2017	<0.0002	
1/25/2018	<0.0002	
6/20/2018	<0.0002	
1/25/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/18/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.0002	
7/31/2015	<0.0002	
1/20/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	9E-05 (J)	
9/16/2016	<0.0002	
11/18/2016	<0.0002	
2/3/2017	<0.0002	
3/29/2017	<0.0002	
5/4/2017	<0.0002	
8/8/2017	<0.0002	
1/25/2018	<0.0002	
6/27/2018	<0.0002	
1/31/2019		<0.0002
6/26/2019		<0.0002
9/11/2019		<0.0002
3/12/2020		<0.0002

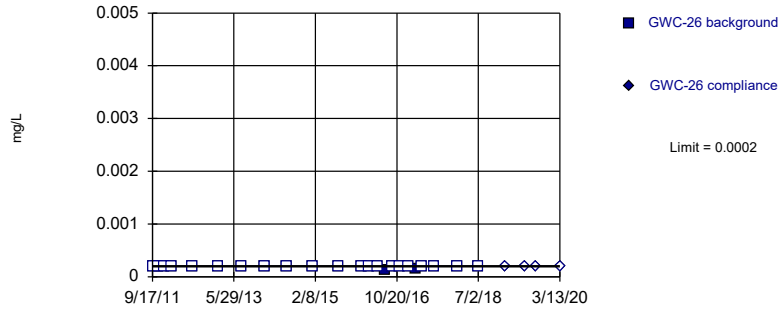
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0002	
10/31/2011	<0.0002	
12/14/2011	<0.0002	
2/7/2012	<0.0002	
7/17/2012	<0.0002	
7/24/2013	<0.0002	
1/23/2014	<0.0002	
7/8/2014	<0.0002	
1/21/2015	<0.0002	
7/30/2015	<0.0002	
1/21/2016	<0.0002	
3/28/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	9.8E-05 (J)	
9/19/2016	<0.0002	
11/15/2016	<0.0002	
1/24/2017	<0.0002	
3/23/2017	<0.0002	
5/2/2017	<0.0002	
8/3/2017	<0.0002	
1/25/2018	<0.0002	
6/27/2018	<0.0002	
1/24/2019		<0.0002
6/25/2019		<0.0002
9/11/2019		<0.0002
3/12/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

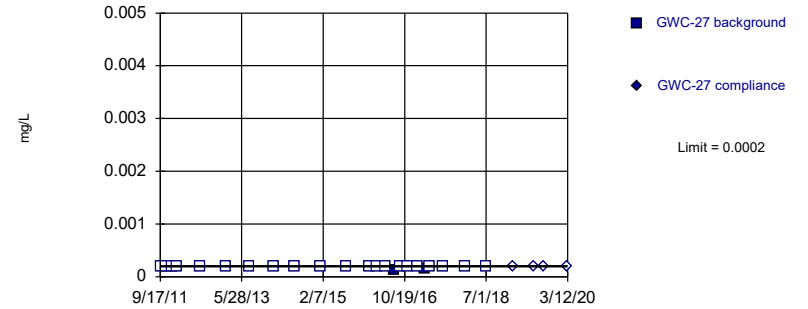


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

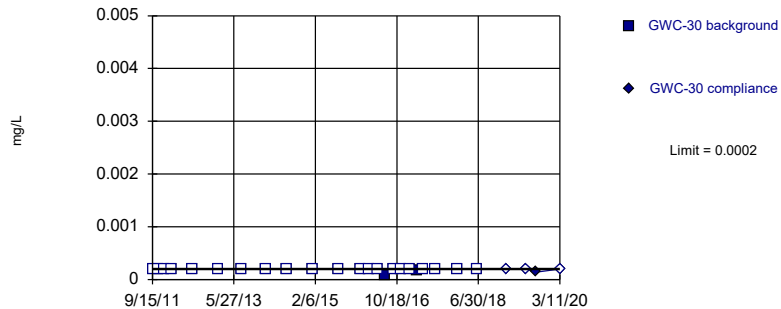


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

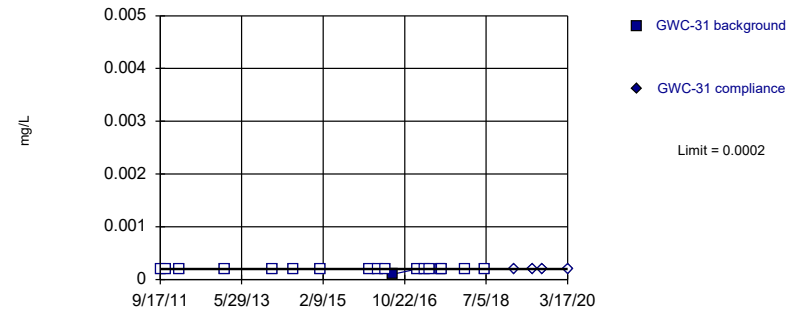


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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. 94.44% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.0002	
10/29/2011	<0.0002	
12/14/2011	<0.0002	
2/7/2012	<0.0002	
7/17/2012	<0.0002	
1/24/2013	<0.0002	
7/24/2013	<0.0002	
1/23/2014	<0.0002	
7/8/2014	<0.0002	
1/21/2015	<0.0002	
7/31/2015	<0.0002	
1/25/2016	<0.0002	
3/24/2016	<0.0002	
5/25/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/19/2016	<0.0002	
11/14/2016	<0.0002	
1/19/2017	<0.0002	
3/16/2017	0.00014 (J)	
5/1/2017	<0.0002	
8/3/2017	<0.0002	
1/22/2018	<0.0002	
6/27/2018	<0.0002	
1/24/2019		<0.0002
6/25/2019		<0.0002
9/12/2019		<0.0002
3/13/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.0002	
10/29/2011	<0.0002	
12/14/2011	<0.0002	
1/25/2012	<0.0002	
7/17/2012	<0.0002	
1/24/2013	<0.0002	
7/24/2013	<0.0002	
1/23/2014	<0.0002	
7/8/2014	<0.0002	
1/21/2015	<0.0002	
7/30/2015	<0.0002	
1/22/2016	<0.0002	
3/23/2016	<0.0002	
5/24/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/19/2016	<0.0002	
11/11/2016	<0.0002	
1/20/2017	<0.0002	
3/16/2017	0.00015 (J)	
4/28/2017	<0.0002	
8/3/2017	<0.0002	
1/19/2018	<0.0002	
6/27/2018	<0.0002	
1/24/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/12/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.0002	
10/28/2011	<0.0002	
12/13/2011	<0.0002	
2/8/2012	<0.0002	
7/18/2012	<0.0002	
1/24/2013	<0.0002	
7/24/2013	<0.0002	
1/23/2014	<0.0002	
7/1/2014	<0.0002	
1/20/2015	<0.0002	
7/30/2015	<0.0002	
1/19/2016	<0.0002	
3/23/2016	<0.0002	
5/20/2016	<0.0002	
7/21/2016	8.6E-05 (J)	
9/20/2016	<0.0002	
11/14/2016	<0.0002	
1/24/2017	<0.0002	
3/17/2017	0.00017 (J)	
5/1/2017	<0.0002	
8/4/2017	<0.0002	
1/24/2018	<0.0002	
6/21/2018	<0.0002	
1/30/2019		<0.0002
6/27/2019		<0.0002
9/10/2019		0.00014 (J)
3/11/2020		<0.0002

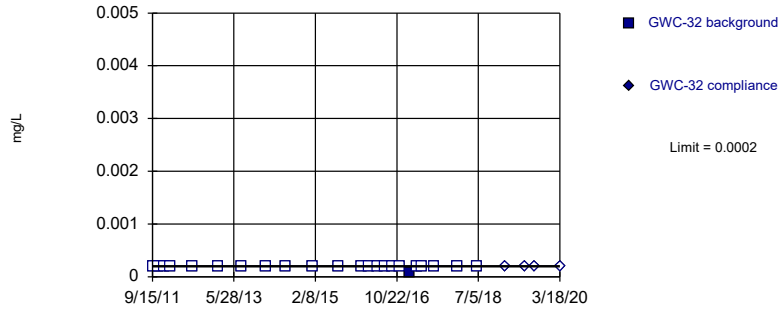
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.0002	
10/31/2011	<0.0002	
2/7/2012	<0.0002	
1/23/2013	<0.0002	
1/23/2014	<0.0002	
7/1/2014	<0.0002	
1/21/2015	<0.0002	
1/25/2016	<0.0002	
3/30/2016	<0.0002	
5/25/2016	<0.0002	
7/27/2016	0.0001 (J)	
1/25/2017	<0.0002	
3/23/2017	<0.0002	
5/2/2017	<0.0002	
7/19/2017	<0.0002	
8/4/2017	<0.0002	
1/23/2018	<0.0002	
6/27/2018	<0.0002	
1/31/2019		<0.0002
6/26/2019		<0.0002
9/11/2019		<0.0002
3/17/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

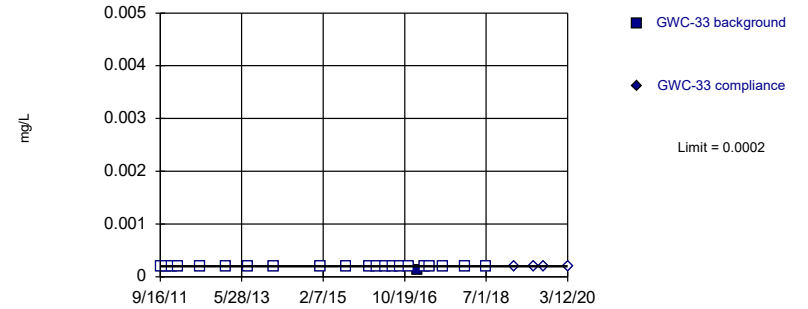


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

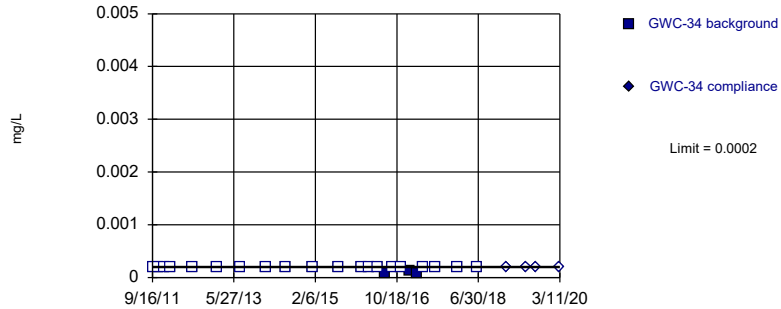


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

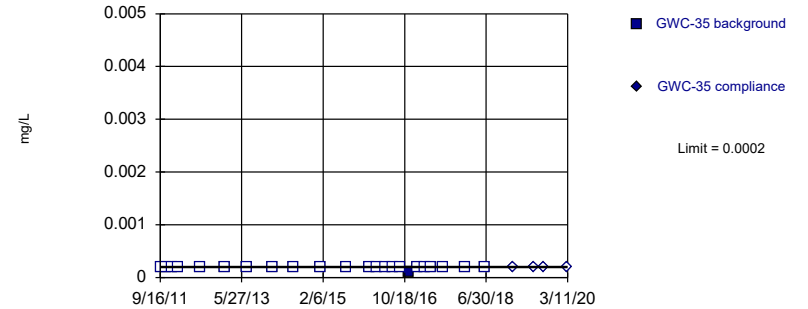


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.0002	
10/31/2011	<0.0002	
12/13/2011	<0.0002	
2/1/2012	<0.0002	
7/17/2012	<0.0002	
1/23/2013	<0.0002	
7/24/2013	<0.0002	
1/23/2014	<0.0002	
7/1/2014	<0.0002	
1/20/2015	<0.0002	
7/30/2015	<0.0002	
1/25/2016	<0.0002	
3/23/2016	<0.0002	
5/24/2016	<0.0002	
7/22/2016	<0.0002	
9/16/2016	<0.0002	
11/15/2016	<0.0002	
1/26/2017	7.3E-05 (J)	
3/24/2017	<0.0002	
5/2/2017	<0.0002	
8/3/2017	<0.0002	
1/23/2018	<0.0002	
6/26/2018	<0.0002	
1/30/2019		<0.0002
6/27/2019		<0.0002
9/12/2019		<0.0002
3/18/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.0002	
10/30/2011	<0.0002	
12/13/2011	<0.0002	
2/1/2012	<0.0002	
7/17/2012	<0.0002	
1/23/2013	<0.0002	
7/17/2013	<0.0002	
1/23/2014	<0.0002	
1/20/2015	<0.0002	
7/29/2015	<0.0002	
1/25/2016	<0.0002	
3/23/2016	<0.0002	
5/24/2016	<0.0002	
7/22/2016	<0.0002	
9/16/2016	<0.0002	
11/17/2016	<0.0002	
1/25/2017	0.00012 (J)	
3/23/2017	<0.0002	
5/1/2017	<0.0002	
8/4/2017	<0.0002	
1/23/2018	<0.0002	
6/26/2018	<0.0002	
1/30/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/12/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.0002	
10/31/2011	<0.0002	
12/12/2011	<0.0002	
2/1/2012	<0.0002	
7/16/2012	<0.0002	
1/22/2013	<0.0002	
7/17/2013	<0.0002	
1/23/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/29/2015	<0.0002	
1/21/2016	<0.0002	
3/24/2016	<0.0002	
5/23/2016	<0.0002	
7/21/2016	8.4E-05 (J)	
9/15/2016	<0.0002	
11/15/2016	<0.0002	
1/25/2017	0.00012 (J)	
3/22/2017	7.9E-05 (J)	
5/1/2017	<0.0002	
8/3/2017	<0.0002	
1/23/2018	<0.0002	
6/20/2018	<0.0002	
1/28/2019		<0.0002
6/26/2019		<0.0002
9/11/2019		<0.0002
3/11/2020		<0.0002

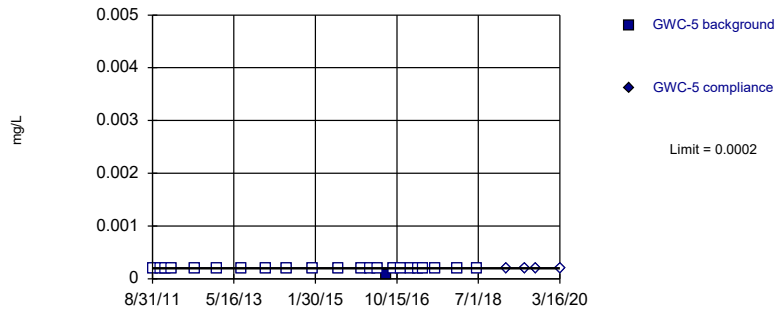
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.0002	
10/31/2011	<0.0002	
12/12/2011	<0.0002	
2/1/2012	<0.0002	
7/16/2012	<0.0002	
1/22/2013	<0.0002	
7/2/2013	<0.0002	
1/21/2014	<0.0002	
6/25/2014	<0.0002	
1/14/2015	<0.0002	
7/28/2015	<0.0002	
1/21/2016	<0.0002	
3/24/2016	<0.0002	
5/23/2016	<0.0002	
7/21/2016	<0.0002	
9/15/2016	<0.0002	
11/15/2016	9.6E-05 (J)	
1/26/2017	<0.0002	
3/22/2017	<0.0002	
5/2/2017	<0.0002	
8/3/2017	<0.0002	
1/23/2018	<0.0002	
6/19/2018	<0.0002	
1/21/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/11/2020		<0.0002

Within Limit

Prediction Limit Intrawell Non-parametric

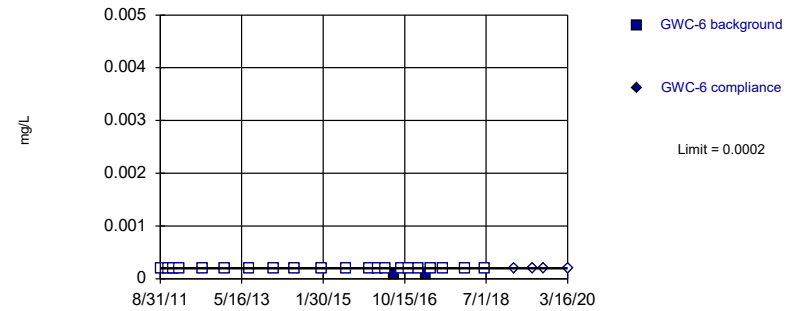


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

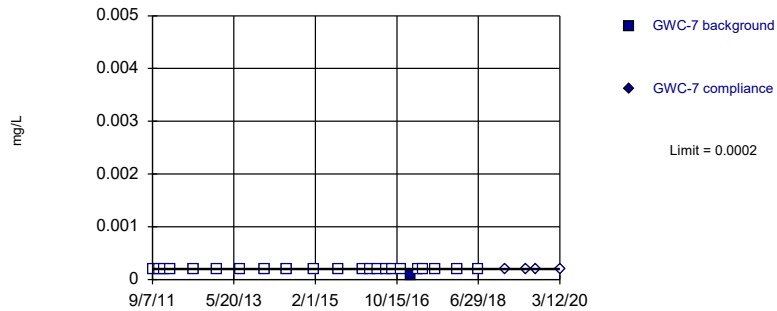


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

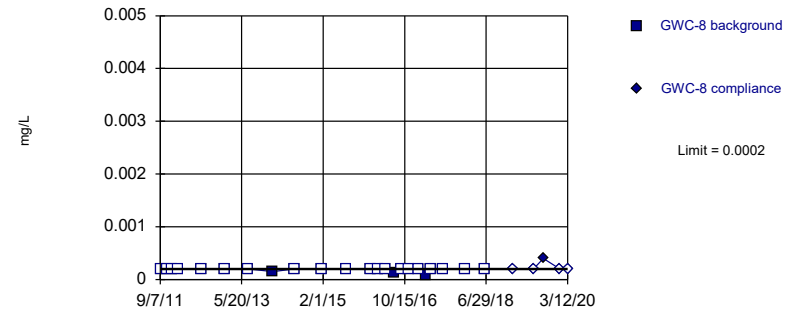


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.0002	
10/27/2011	<0.0002	
12/5/2011	<0.0002	
1/25/2012	<0.0002	
7/18/2012	<0.0002	
1/9/2013	<0.0002	
7/17/2013	<0.0002	
1/15/2014	<0.0002	
6/25/2014	<0.0002	
1/13/2015	<0.0002	
7/24/2015	<0.0002	
1/20/2016	<0.0002	
3/28/2016	<0.0002	
5/23/2016	<0.0002	
7/21/2016	7.6E-05 (J)	
9/15/2016	<0.0002	
11/15/2016	<0.0002	
1/26/2017	<0.0002	
3/22/2017	<0.0002	
5/2/2017	<0.0002	
8/3/2017	<0.0002	
1/23/2018	<0.0002	
6/25/2018	<0.0002	
1/30/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/16/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.0002	
10/30/2011	<0.0002	
12/5/2011	<0.0002	
1/25/2012	<0.0002	
7/24/2012	<0.0002	
1/8/2013	<0.0002	
7/9/2013	<0.0002	
1/15/2014	<0.0002	
6/25/2014	<0.0002	
1/20/2015	<0.0002	
7/24/2015	<0.0002	
1/20/2016	<0.0002	
3/28/2016	<0.0002	
5/24/2016	<0.0002	
7/21/2016	9.1E-05 (J)	
9/15/2016	<0.0002	
11/16/2016	<0.0002	
1/26/2017	<0.0002	
3/22/2017	7.3E-05 (J)	
5/2/2017	<0.0002	
8/3/2017	<0.0002	
1/23/2018	<0.0002	
6/25/2018	<0.0002	
1/30/2019		<0.0002
6/26/2019		<0.0002
9/12/2019		<0.0002
3/16/2020		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.0002	
10/30/2011	<0.0002	
12/5/2011	<0.0002	
1/25/2012	<0.0002	
7/18/2012	<0.0002	
1/7/2013	<0.0002	
7/9/2013	<0.0002	
1/14/2014	<0.0002	
6/24/2014	<0.0002	
1/20/2015	<0.0002	
7/27/2015	<0.0002	
1/26/2016	<0.0002	
3/29/2016	<0.0002	
5/24/2016	<0.0002	
7/22/2016	<0.0002	
9/15/2016	<0.0002	
11/16/2016	<0.0002	
1/26/2017	8.8E-05 (J)	
3/22/2017	<0.0002	
5/2/2017	<0.0002	
8/4/2017	<0.0002	
1/23/2018	<0.0002	
6/25/2018	<0.0002	
1/21/2019		<0.0002
6/25/2019		<0.0002
9/10/2019		<0.0002
3/12/2020		<0.0002

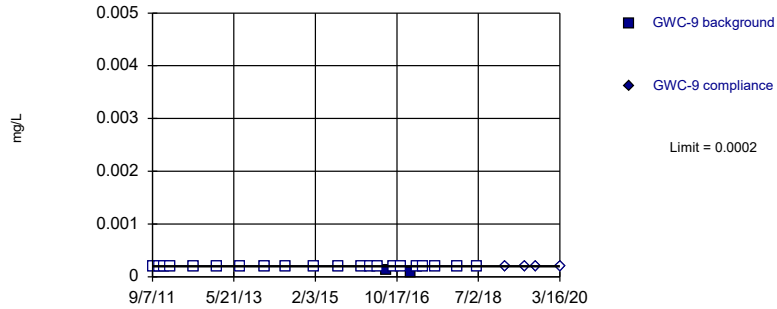
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.0002	
10/30/2011	<0.0002	
12/5/2011	<0.0002	
1/19/2012	<0.0002	
7/18/2012	<0.0002	
1/7/2013	<0.0002	
7/9/2013	<0.0002	
1/14/2014	0.000153 (J)	
6/24/2014	<0.0002	
1/20/2015	<0.0002	
7/27/2015	<0.0002	
1/26/2016	<0.0002	
3/29/2016	<0.0002	
5/24/2016	<0.0002	
7/26/2016	0.00012 (J)	
9/19/2016	<0.0002	
11/16/2016	<0.0002	
1/26/2017	<0.0002	
3/23/2017	7.2E-05 (J)	
5/3/2017	<0.0002	
8/7/2017	<0.0002	
1/24/2018	<0.0002	
6/21/2018	<0.0002	
1/22/2019		<0.0002
6/25/2019		<0.0002
9/10/2019		0.0004
1/13/2020		<0.0002
3/12/2020		<0.0002

Within Limit

Prediction Limit
Intrawell Non-parametric

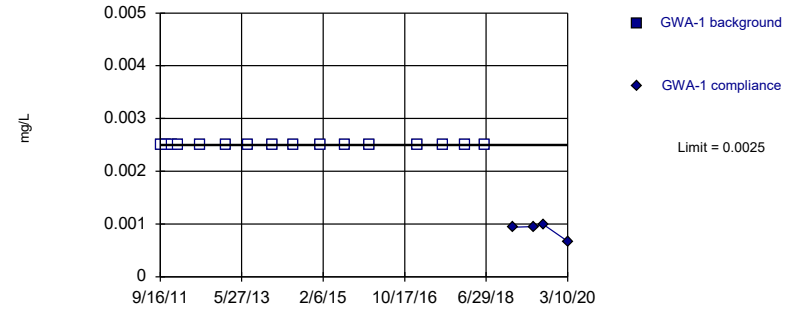


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Mercury Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

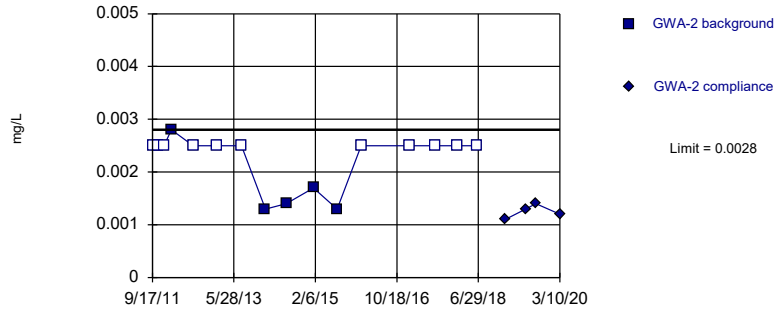


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

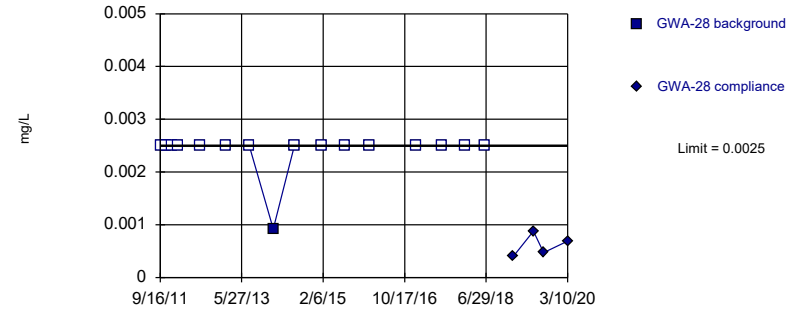


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.0002	
10/30/2011	<0.0002	
12/4/2011	<0.0002	
1/19/2012	<0.0002	
7/18/2012	<0.0002	
1/8/2013	<0.0002	
7/9/2013	<0.0002	
1/14/2014	<0.0002	
6/24/2014	<0.0002	
1/20/2015	<0.0002	
7/27/2015	<0.0002	
1/26/2016	<0.0002	
3/29/2016	<0.0002	
5/24/2016	<0.0002	
7/25/2016	0.00012 (J)	
9/19/2016	<0.0002	
11/16/2016	<0.0002	
1/31/2017	8.6E-05 (J)	
3/23/2017	<0.0002	
5/2/2017	<0.0002	
8/7/2017	<0.0002	
1/24/2018	<0.0002	
6/21/2018	<0.0002	
1/22/2019		<0.0002
6/25/2019		<0.0002
9/16/2019		<0.0002
3/16/2020		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0025	
10/27/2011	<0.0025	
12/13/2011	<0.0025	
1/31/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/17/2013	<0.0025	
1/21/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/21/2015	<0.0025	
1/21/2016	<0.0025	
1/19/2017	<0.0025	
8/3/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/17/2019		0.00094 (J)
6/24/2019		0.00095 (J)
9/9/2019		0.00099 (J)
3/10/2020		0.00067 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.0025	
10/27/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	0.0028	
7/23/2012	<0.0025	
1/23/2013	<0.0025	
7/24/2013	<0.0025	
1/22/2014	0.0013 (J)	
7/1/2014	0.0014 (J)	
1/22/2015	0.0017 (J)	
7/22/2015	0.0013 (J)	
1/20/2016	<0.0025	
1/19/2017	<0.0025	
8/2/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/17/2019		0.0011
6/24/2019		0.0013
9/10/2019		0.0014
3/10/2020		0.0012

Prediction Limit

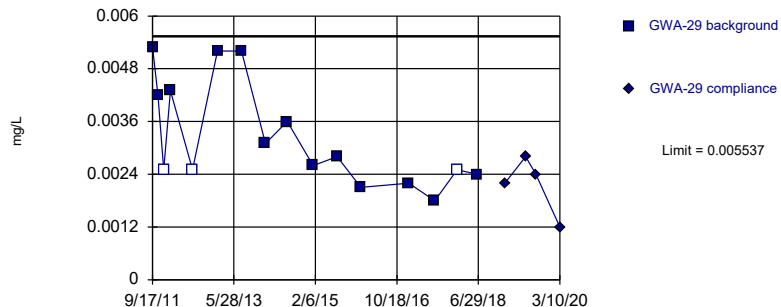
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.0025	
10/28/2011	<0.0025	
12/12/2011	<0.0025	
1/25/2012	<0.0025	
7/16/2012	<0.0025	
1/24/2013	<0.0025	
7/23/2013	<0.0025	
1/22/2014	0.00092 (J)	
7/1/2014	<0.0025	
1/21/2015	<0.0025	
7/21/2015	<0.0025	
1/22/2016	<0.0025	
1/17/2017	<0.0025	
8/1/2017	<0.0025	
1/19/2018	<0.0025	
6/19/2018	<0.0025	
1/21/2019		0.0004 (J)
6/25/2019		0.00088 (J)
9/10/2019		0.00047 (J)
3/10/2020		0.00069 (J)

Within Limit

Prediction Limit
Intrawell Parametric

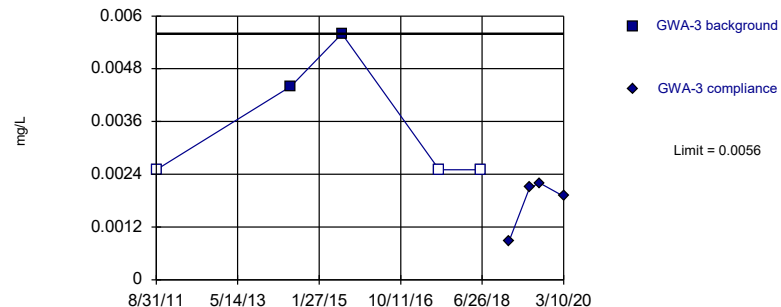


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003044, Std. Dev.=0.001124, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8635, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

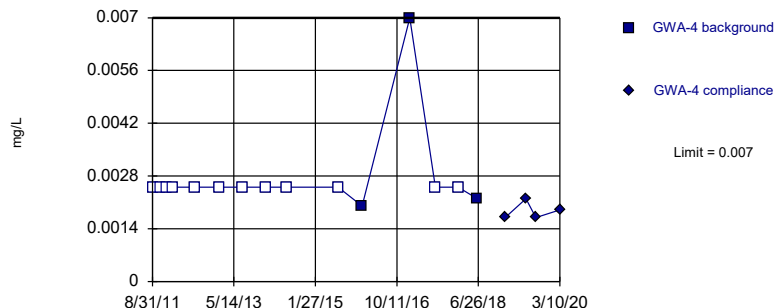


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

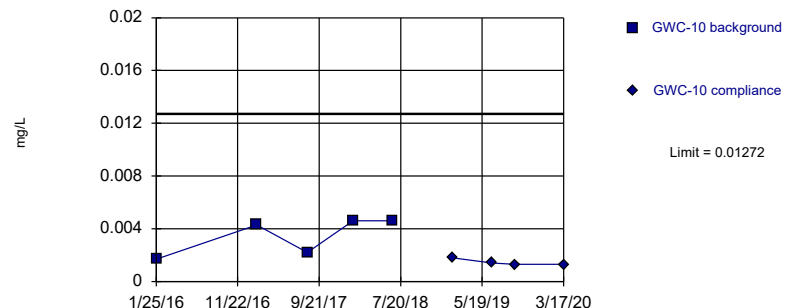


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.00348, Std. Dev.=0.001413, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7865, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	0.0053	
10/28/2011	0.0042	
12/12/2011	<0.0025	
1/31/2012	0.0043	
7/17/2012	<0.0025	
1/24/2013	0.0052	
7/24/2013	0.0052	
1/22/2014	0.0031	
7/8/2014	0.0036 (D)	
1/21/2015	0.0026	
7/22/2015	0.0028	
1/19/2016	0.0021 (JD)	
1/17/2017	0.0022 (J)	
8/1/2017	0.0018 (J)	
1/19/2018	<0.0025	
6/19/2018	0.0024 (J)	
1/18/2019		0.0022
6/25/2019		0.0028
9/10/2019		0.0024
3/10/2020		0.0012

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.0025	
6/25/2014	0.0044	
7/21/2015	0.0056	
8/1/2017	<0.0025	
6/20/2018	<0.0025	
1/18/2019		0.00087 (J)
6/25/2019		0.0021
9/11/2019		0.0022
3/10/2020		0.0019

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/14/2011	<0.0025	
2/1/2012	<0.0025	
7/23/2012	<0.0025	
1/23/2013	<0.0025	
7/17/2013	<0.0025	
1/15/2014	<0.0025	
6/25/2014	<0.0025	
1/14/2015	0.0073 (O)	
7/21/2015	<0.0025	
1/20/2016	0.002 (J)	
1/17/2017	0.007	
8/2/2017	<0.0025	
1/22/2018	<0.0025	
6/19/2018	0.0022 (J)	
1/17/2019		0.0017
6/24/2019		0.0022
9/10/2019		0.0017
3/10/2020		0.0019

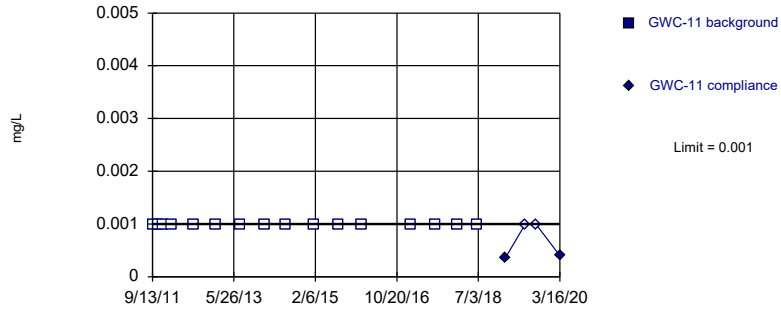
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	0.0017 (J)	
2/1/2017	0.0043	
8/8/2017	0.0022 (J)	
1/25/2018	0.0046	
6/21/2018	0.0046	
1/31/2019		0.0018
6/26/2019		0.0014
9/17/2019		0.0013
3/17/2020		0.0013

Within Limit

Prediction Limit Intrawell Non-parametric

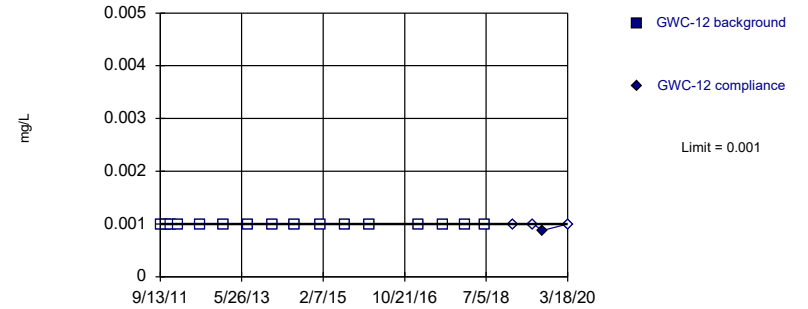


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

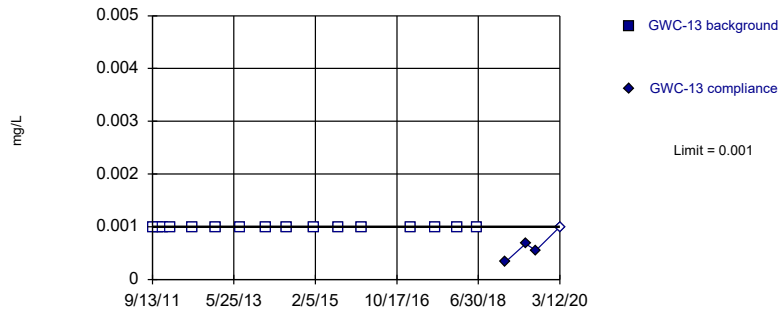


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

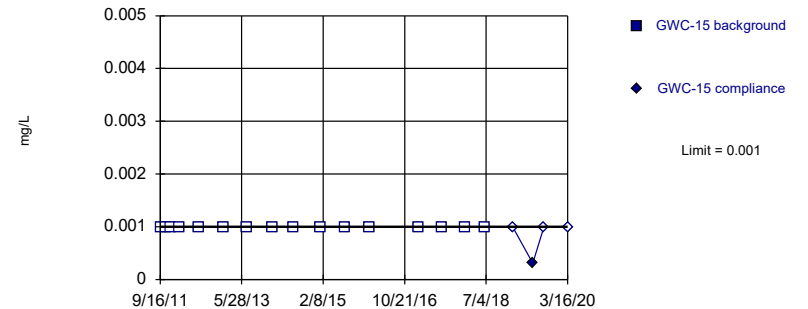


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		0.00035 (J)
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.0004 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/11/2019		0.00088 (J)
3/18/2020		<0.001

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
1/31/2017	<0.001	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		0.00033 (J)
6/25/2019		0.00068 (J)
9/12/2019		0.00055 (J)
3/12/2020		<0.001

Prediction Limit

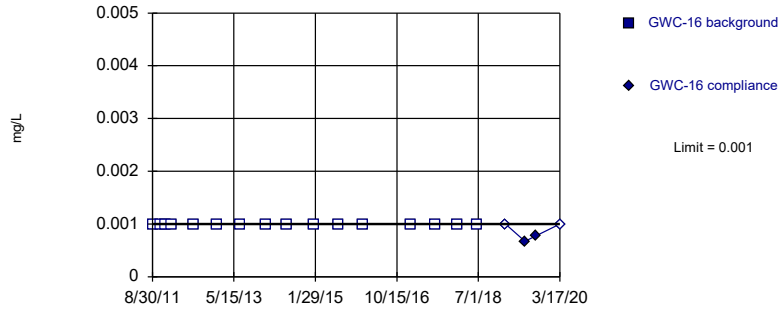
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
2/9/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		<0.001
6/25/2019		0.00031 (J)
9/17/2019		<0.001
3/16/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

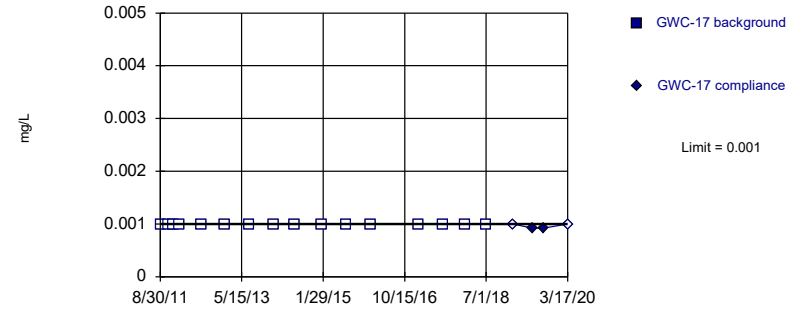


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

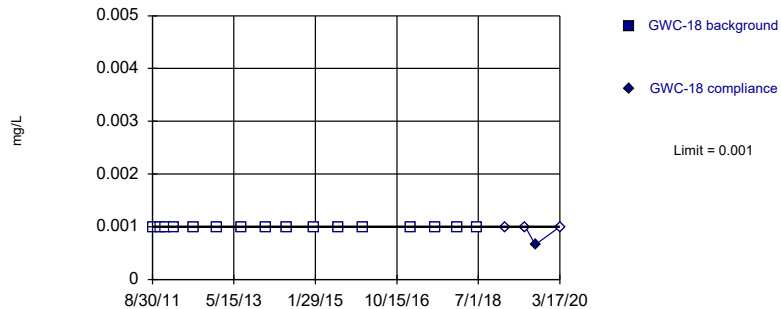


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

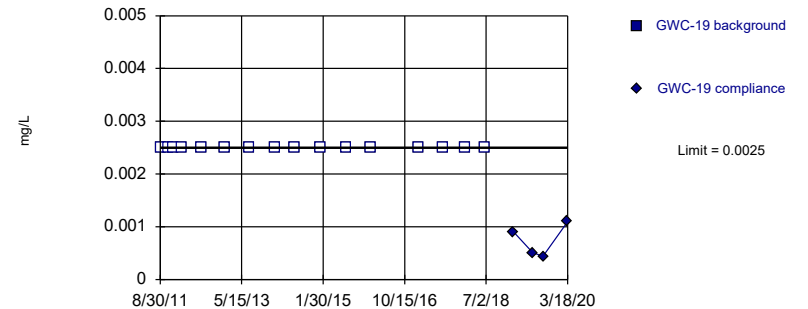


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		<0.001
6/25/2019		0.00067 (J)
9/11/2019		0.00077 (J)
3/17/2020		<0.001

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/26/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.00092 (J)
9/11/2019		0.00092 (J)
3/17/2020		<0.001

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/9/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		<0.001
6/27/2019		<0.001
9/11/2019		0.00066 (J)
3/17/2020		<0.001

Prediction Limit

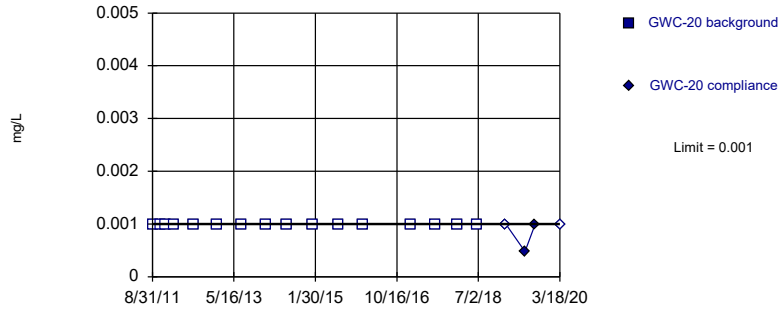
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
2/8/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/27/2016	<0.0025	
2/2/2017	<0.0025	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/21/2018	<0.0025	
1/28/2019		0.0009 (J)
6/26/2019		0.00051 (J)
9/12/2019		0.00044 (J)
3/18/2020		0.0011

Within Limit

Prediction Limit Intrawell Non-parametric

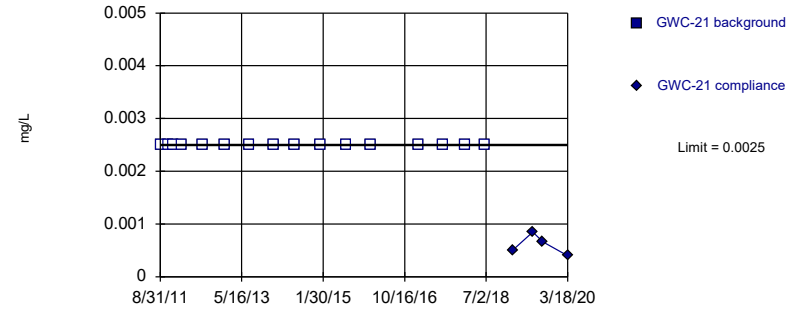


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

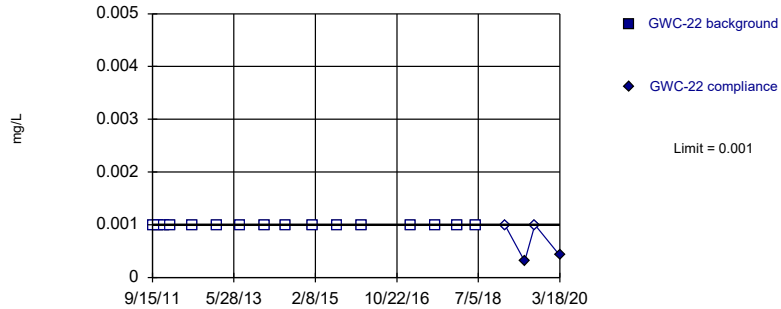


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

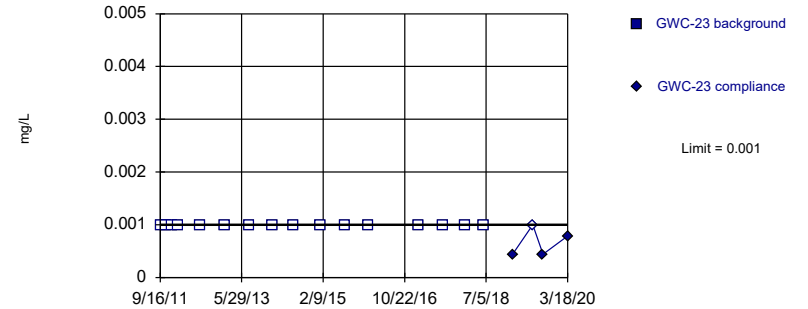


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:36 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
2/2/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		<0.001
6/25/2019		0.00048 (J)
9/11/2019		0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/4/2011	<0.0025	
2/8/2012	<0.0025	
7/17/2012	<0.0025	
1/9/2013	<0.0025	
7/16/2013	<0.0025	
1/21/2014	<0.0025	
6/24/2014	<0.0025	
1/13/2015	<0.0025	
7/23/2015	<0.0025	
1/26/2016	<0.0025	
2/2/2017	<0.0025	
8/7/2017	<0.0025	
1/26/2018	<0.0025	
6/20/2018	<0.0025	
1/24/2019		0.00051 (J)
6/25/2019		0.00085 (J)
9/11/2019		0.00066 (J)
3/18/2020		0.0004 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
2/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.00031 (J)
9/10/2019		<0.001
3/18/2020		0.00042 (J)

Prediction Limit

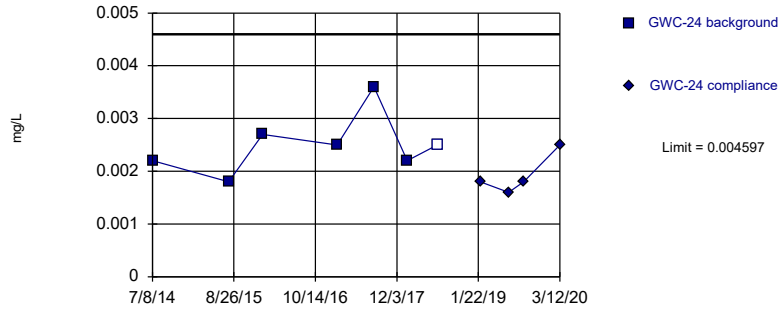
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
2/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		0.00044 (J)
6/26/2019		<0.001
9/12/2019		0.00044 (J)
3/18/2020		0.00079 (J)

Within Limit

Prediction Limit
Intrawell Parametric

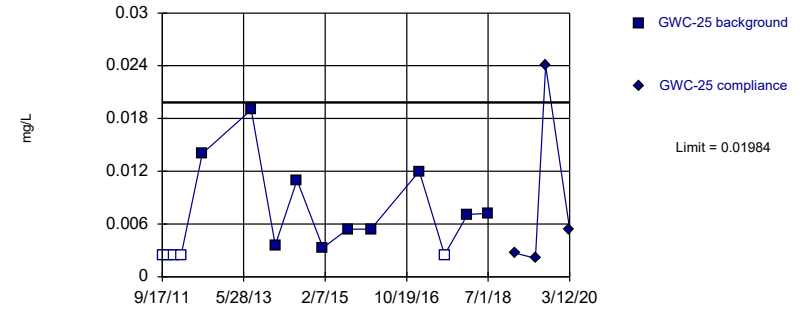


Background Data Summary: Mean=0.0025, Std. Dev.=0.0005657, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

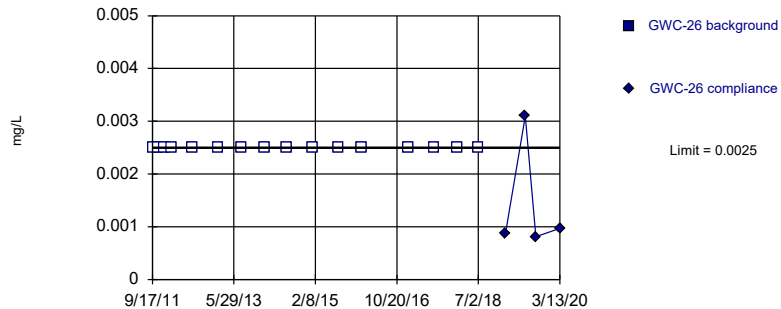


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07554, Std. Dev.=0.0286, n=15, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

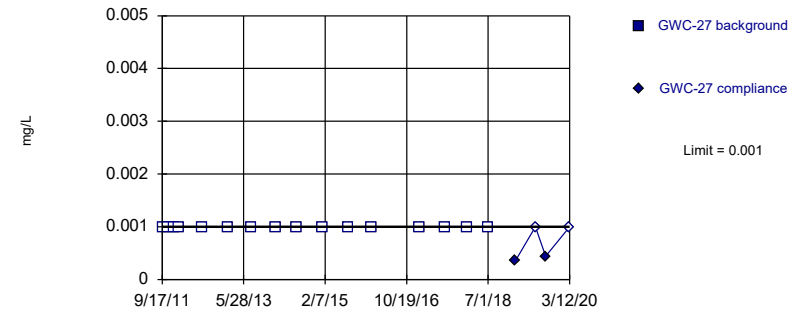


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	0.0022 (J)	
7/31/2015	0.0018 (J)	
1/20/2016	0.0027	
2/3/2017	0.0025	
8/8/2017	0.0036	
1/25/2018	0.0022 (J)	
6/27/2018	<0.0025	
1/31/2019		0.0018
6/26/2019		0.0016
9/11/2019		0.0018
3/12/2020		0.0025

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.0025	
10/31/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	0.014	
7/24/2013	0.019	
1/23/2014	0.0036	
7/8/2014	0.011	
1/21/2015	0.0033	
7/30/2015	0.0054	
1/21/2016	0.0054	
1/24/2017	0.012	
8/3/2017	<0.0025	
1/25/2018	0.0071	
6/27/2018	0.0072	
1/24/2019		0.0027
6/25/2019		0.0021
9/11/2019		0.024
3/12/2020		0.0054

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.0025	
10/29/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/8/2014	<0.0025	
1/21/2015	<0.0025	
7/31/2015	<0.0025	
1/25/2016	<0.0025	
1/19/2017	<0.0025	
8/3/2017	<0.0025	
1/22/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		0.00087 (J)
6/25/2019		0.0031
9/12/2019		0.00081 (J)
3/13/2020		0.00097 (J)

Prediction Limit

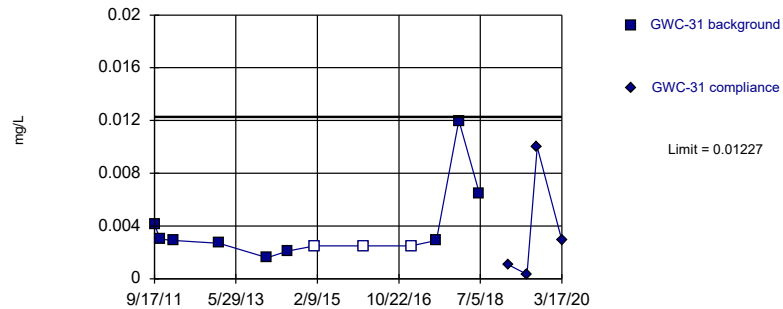
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
1/25/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/22/2016	<0.001	
1/20/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.00035 (J)
6/26/2019		<0.001
9/12/2019		0.00044 (J)
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Parametric

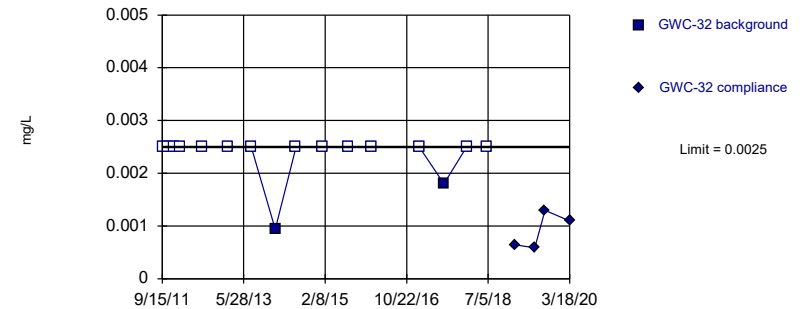


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.856, Std. Dev.=0.5866, n=12, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

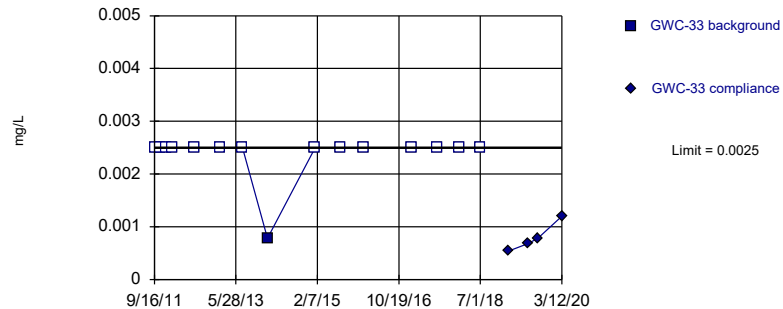


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

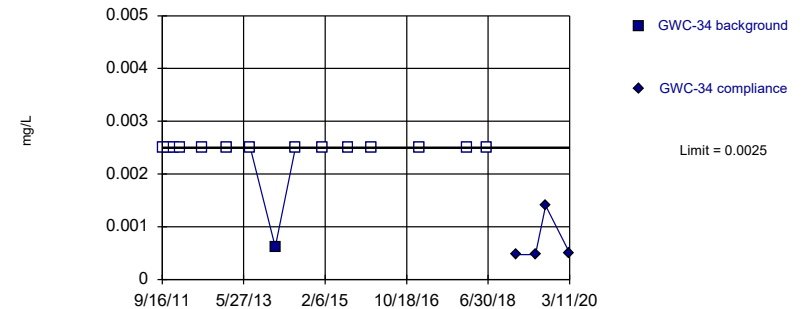


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	0.0041	
10/31/2011	0.003	
2/7/2012	0.0029	
1/23/2013	0.0027	
1/23/2014	0.0016 (J)	
7/1/2014	0.0021 (J)	
1/21/2015	<0.0025	
1/25/2016	<0.0025	
1/25/2017	<0.0025	
8/4/2017	0.0029	
1/23/2018	0.012	
6/27/2018	0.0065	
1/31/2019		0.0011
6/26/2019		0.00034 (J)
9/11/2019		0.01
3/17/2020		0.0029

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.0025	
10/31/2011	<0.0025	
12/13/2011	<0.0025	
2/1/2012	<0.0025	
7/17/2012	<0.0025	
1/23/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	0.00094 (J)	
7/1/2014	<0.0025	
1/20/2015	<0.0025	
7/30/2015	<0.0025	
1/25/2016	<0.0025	
1/26/2017	<0.0025	
8/3/2017	0.0018 (J)	
1/23/2018	<0.0025	
6/26/2018	<0.0025	
1/30/2019		0.00064 (J)
6/27/2019		0.00059 (J)
9/12/2019		0.0013
3/18/2020		0.0011

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.0025	
10/30/2011	<0.0025	
12/13/2011	<0.0025	
2/1/2012	<0.0025	
7/17/2012	<0.0025	
1/23/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	0.00078 (J)	
1/20/2015	<0.0025	
7/29/2015	<0.0025	
1/25/2016	<0.0025	
1/25/2017	<0.0025	
8/4/2017	<0.0025	
1/23/2018	<0.0025	
6/26/2018	<0.0025	
1/30/2019		0.00054 (J)
6/26/2019		0.00068 (J)
9/12/2019		0.00078 (J)
3/12/2020		0.0012

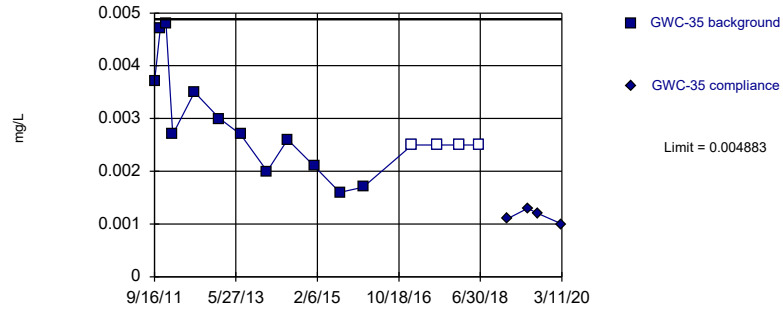
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.0025	
10/31/2011	<0.0025	
12/12/2011	<0.0025	
2/1/2012	<0.0025	
7/16/2012	<0.0025	
1/22/2013	<0.0025	
7/17/2013	<0.0025	
1/23/2014	0.00062 (J)	
6/25/2014	<0.0025	
1/14/2015	<0.0025	
7/29/2015	<0.0025	
1/21/2016	<0.0025	
1/25/2017	<0.0025	
8/3/2017	0.012 (O)	
1/23/2018	<0.0025	
6/20/2018	<0.0025	
1/28/2019		0.00047 (J)
6/26/2019		0.00047 (J)
9/11/2019		0.0014
3/11/2020		0.0005 (J)

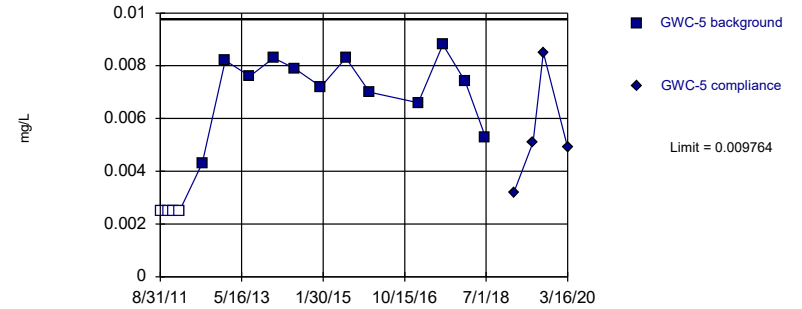
Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002608, Std. Dev.=0.001025, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8853, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

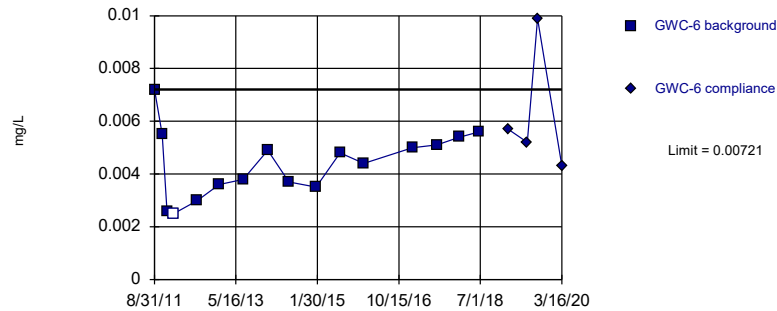
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=0.00003998, Std. Dev.=0.00002495, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

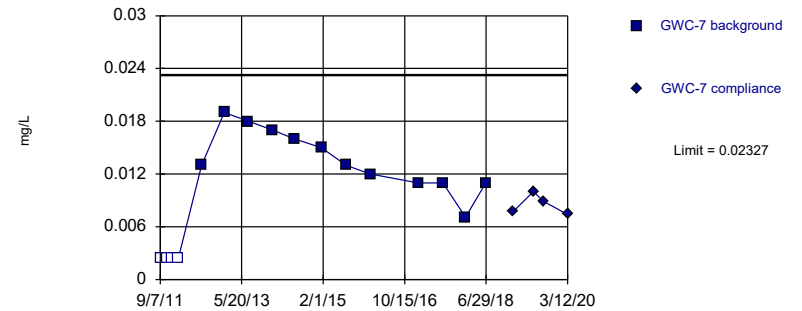
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.004412, Std. Dev.=0.001261, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9588, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.009385, Std. Dev.=0.006258, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	0.0037	
10/31/2011	0.0047	
12/12/2011	0.0048	
2/1/2012	0.0027	
7/16/2012	0.0035	
1/22/2013	0.003	
7/2/2013	0.0027	
1/21/2014	0.002 (J)	
6/25/2014	0.0026	
1/14/2015	0.0021 (J)	
7/28/2015	0.0016 (J)	
1/21/2016	0.0017 (J)	
1/26/2017	<0.0025	
8/3/2017	<0.0025	
1/23/2018	<0.0025	
6/19/2018	<0.0025	
1/21/2019		0.0011
6/26/2019		0.0013
9/12/2019		0.0012
3/11/2020		0.001

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.0025	
10/27/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	0.0043	
1/9/2013	0.0082	
7/17/2013	0.0076	
1/15/2014	0.0083	
6/25/2014	0.0079	
1/13/2015	0.0072	
7/24/2015	0.0083	
1/20/2016	0.007	
1/26/2017	0.0066	
8/3/2017	0.0088	
1/23/2018	0.0074	
6/25/2018	0.0053	
1/30/2019		0.0032
6/26/2019		0.0051
9/12/2019		0.0085
3/16/2020		0.0049

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	0.0072	
10/30/2011	0.0055	
12/5/2011	0.0026	
1/25/2012	<0.0025	
7/24/2012	0.003	
1/8/2013	0.0036	
7/9/2013	0.0038	
1/15/2014	0.0049	
6/25/2014	0.0037	
1/20/2015	0.0035	
7/24/2015	0.0048	
1/20/2016	0.0044	
1/26/2017	0.005	
8/3/2017	0.0051	
1/23/2018	0.0054	
6/25/2018	0.0056	
1/30/2019		0.0057
6/26/2019		0.0052
9/12/2019		0.0099
3/16/2020		0.0043

Prediction Limit

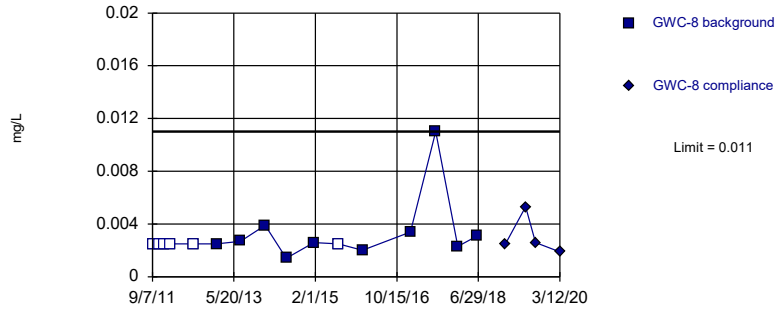
Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	0.013	
1/7/2013	0.019	
7/9/2013	0.018	
1/14/2014	0.017	
6/24/2014	0.016	
1/20/2015	0.015	
7/27/2015	0.013	
1/26/2016	0.012	
1/26/2017	0.011	
8/4/2017	0.011	
1/23/2018	0.0071	
6/25/2018	0.011	
1/21/2019		0.0077
6/25/2019		0.01
9/10/2019		0.0089
3/12/2020		0.0074

Within Limit

Prediction Limit
Intrawell Non-parametric

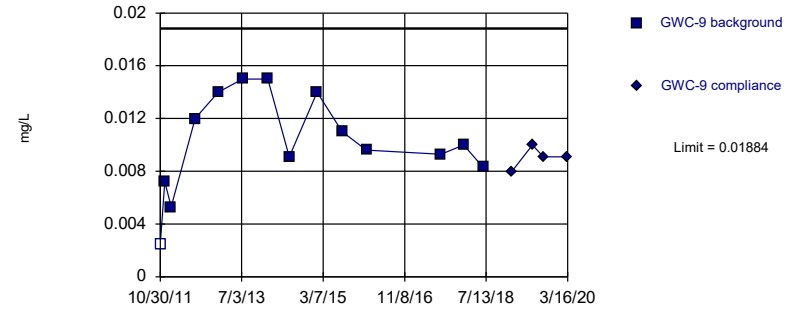


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

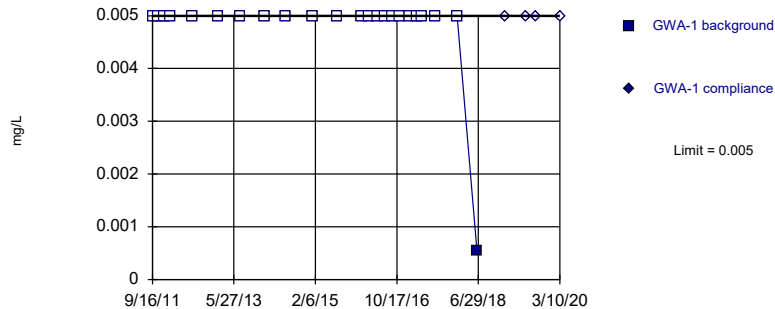


Background Data Summary: Mean=0.01016, Std. Dev.=0.003691, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.825. Kappa = 2.349 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Nickel Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

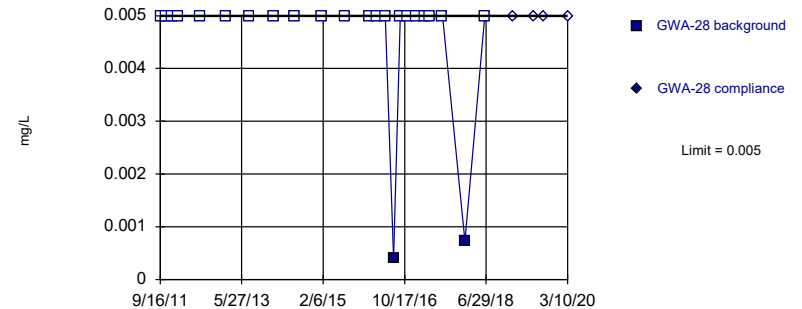


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/19/2012	<0.0025	
7/18/2012	<0.0025	
1/7/2013	0.0025	
7/9/2013	0.0027	
1/14/2014	0.0039	
6/24/2014	0.0014 (J)	
1/20/2015	0.0026	
7/27/2015	<0.0025	
1/26/2016	0.002 (J)	
1/26/2017	0.0034	
8/7/2017	0.011	
1/24/2018	0.0023 (J)	
6/21/2018	0.0031	
1/22/2019		0.0025
6/25/2019		0.0053
9/10/2019		0.0026
3/12/2020		0.0019

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	0.029 (O)	
10/30/2011	<0.0025	
12/4/2011	0.0072	
1/19/2012	0.0053	
7/18/2012	0.012	
1/8/2013	0.014	
7/9/2013	0.015	
1/14/2014	0.015	
6/24/2014	0.0091	
1/20/2015	0.014	
7/27/2015	0.011	
1/26/2016	0.0096	
1/31/2017	0.055 (O)	
8/7/2017	0.0093	
1/24/2018	0.01	
6/21/2018	0.0083	
1/22/2019		0.008
6/25/2019		0.01
9/16/2019		0.0091
3/16/2020		0.0091

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.005	
10/27/2011	<0.005	
12/13/2011	<0.005	
1/31/2012	<0.005	
7/18/2012	<0.005	
1/24/2013	<0.005	
7/17/2013	<0.005	
1/21/2014	<0.005	
6/25/2014	<0.005	
1/14/2015	<0.005	
7/21/2015	<0.005	
1/21/2016	<0.005	
3/23/2016	<0.005	
5/20/2016	<0.005	
7/21/2016	<0.005	
9/15/2016	<0.005	
11/11/2016	<0.005	
1/19/2017	<0.005	
3/16/2017	<0.005	
4/28/2017	<0.005	
8/3/2017	<0.005	
1/19/2018	<0.005	
6/19/2018	0.00054 (J)	
1/17/2019		<0.005
6/24/2019		<0.005
9/9/2019		<0.005
3/10/2020		<0.005

Prediction Limit

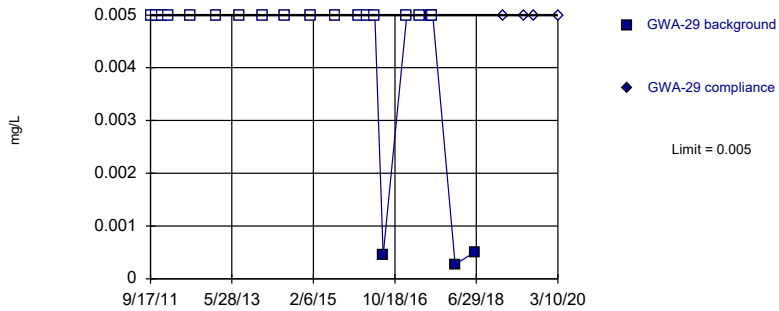
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.005	
10/28/2011	<0.005	
12/12/2011	<0.005	
1/25/2012	<0.005	
7/16/2012	<0.005	
1/24/2013	<0.005	
7/23/2013	<0.005	
1/22/2014	<0.005	
7/1/2014	<0.005	
1/21/2015	<0.005	
7/21/2015	<0.005	
1/22/2016	<0.005	
3/22/2016	<0.005	
5/23/2016	<0.005	
7/25/2016	0.0004 (J)	
9/15/2016	<0.005	
11/9/2016	<0.005	
1/17/2017	<0.005	
3/16/2017	<0.005	
4/27/2017	<0.005	
8/1/2017	<0.005	
1/19/2018	0.00073 (J)	
6/19/2018	<0.005	
1/21/2019		<0.005
6/25/2019		<0.005
9/10/2019		<0.005
3/10/2020		<0.005

Within Limit

Prediction Limit Intrawell Non-parametric

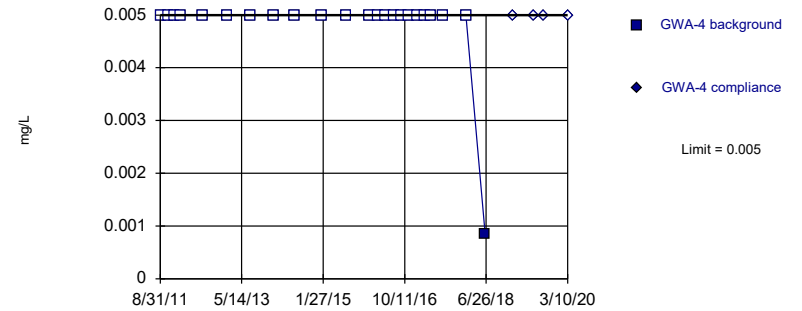


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

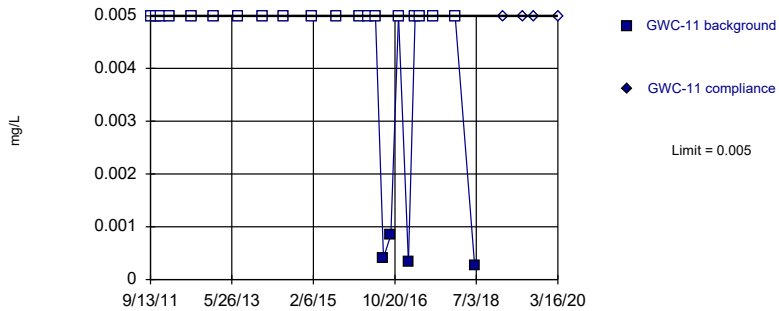


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

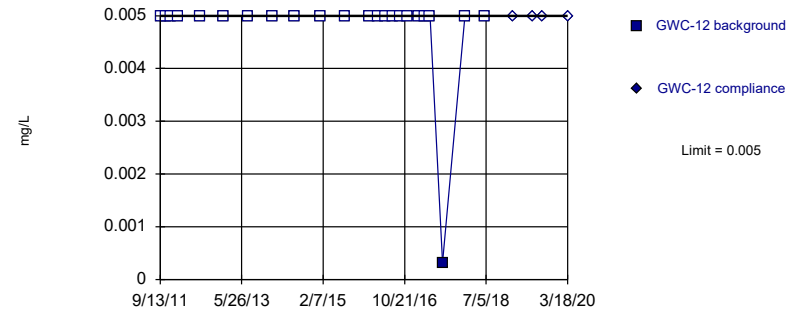


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.005	
10/28/2011	<0.005	
12/12/2011	<0.005	
1/31/2012	<0.005	
7/17/2012	<0.005	
1/24/2013	<0.005	
7/24/2013	<0.005	
1/22/2014	<0.005	
7/8/2014	<0.005 (D)	
1/21/2015	<0.005	
7/22/2015	<0.005	
1/19/2016	<0.005 (D)	
3/22/2016	<0.005	
5/19/2016	<0.005	
7/21/2016	0.00045 (J)	
1/17/2017	<0.005	
4/27/2017	<0.005	
7/18/2017	<0.005	
8/1/2017	<0.005 (*)	
1/19/2018	0.00027 (J)	
6/19/2018	0.00051 (J)	
1/18/2019		<0.005
6/25/2019		<0.005
9/10/2019		<0.005
3/10/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.005	
10/27/2011	<0.005	
12/14/2011	<0.005	
2/1/2012	<0.005	
7/23/2012	<0.005	
1/23/2013	<0.005	
7/17/2013	<0.005	
1/15/2014	<0.005	
6/25/2014	<0.005	
1/14/2015	<0.005	
7/21/2015	<0.005	
1/20/2016	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/21/2016	<0.005	
9/14/2016	<0.005	
11/10/2016	<0.005	
1/17/2017	<0.005	
3/16/2017	<0.005	
4/27/2017	<0.005	
8/2/2017	<0.005	
1/22/2018	<0.005	
6/19/2018	0.00086 (J)	
1/17/2019		<0.005
6/24/2019		<0.005
9/10/2019		<0.005
3/10/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	<0.005	
2/9/2012	<0.005	
7/18/2012	<0.005	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/15/2014	<0.005	
6/25/2014	<0.005	
1/21/2015	<0.005	
7/28/2015	<0.005	
1/26/2016	<0.005	
3/29/2016	<0.005	
5/25/2016	<0.005	
7/25/2016	0.00041 (J)	
9/19/2016	0.00084 (J)	
11/16/2016	<0.005	
1/31/2017	0.00033 (J)	
3/23/2017	<0.005	
5/2/2017	<0.005	
8/7/2017	<0.005	
1/24/2018	<0.005	
6/20/2018	0.00026 (J)	
1/24/2019		<0.005
6/26/2019		<0.005
9/16/2019		<0.005
3/16/2020		<0.005

Prediction Limit

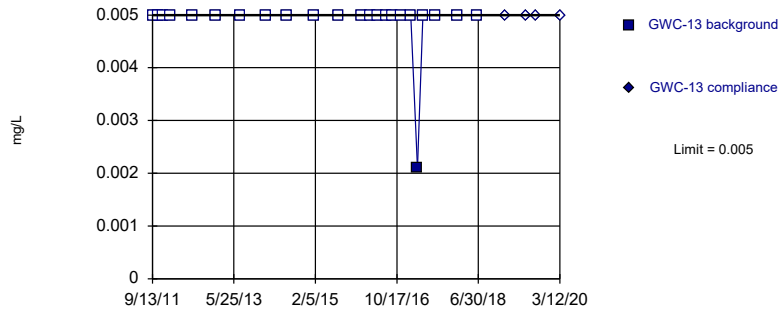
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	<0.005	
1/24/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/10/2013	<0.005	
1/21/2014	<0.005	
7/1/2014	<0.005	
1/21/2015	<0.005	
7/28/2015	<0.005	
1/26/2016	<0.005	
3/29/2016	<0.005	
5/25/2016	<0.005	
7/22/2016	<0.005	
9/15/2016	<0.005	
11/16/2016	<0.005	
1/31/2017	<0.005	
3/23/2017	<0.005	
5/3/2017	<0.005	
8/7/2017	0.00032 (J)	
1/24/2018	<0.005	
6/26/2018	<0.005	
1/25/2019		<0.005
6/26/2019		<0.005
9/11/2019		<0.005
3/18/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

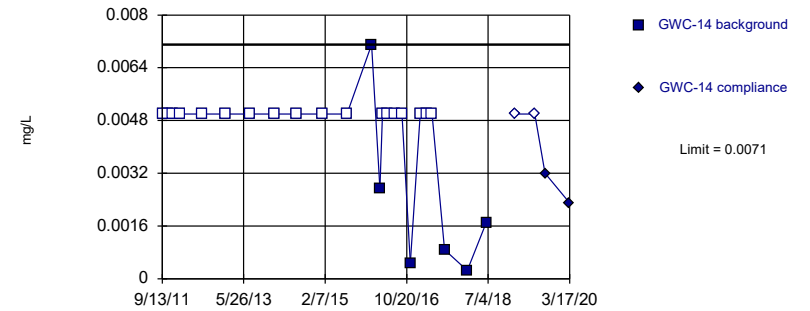


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

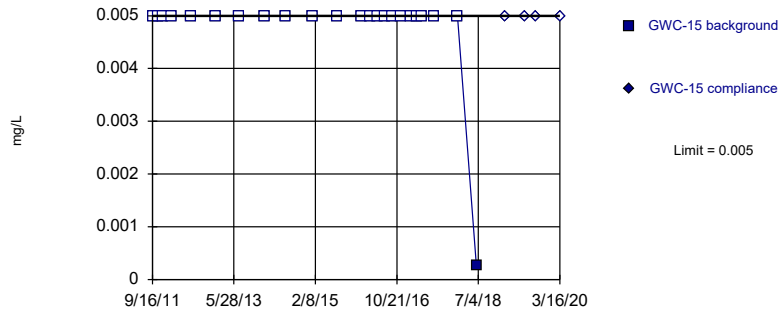


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.0007123. Individual comparison alpha = 0.0003562 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

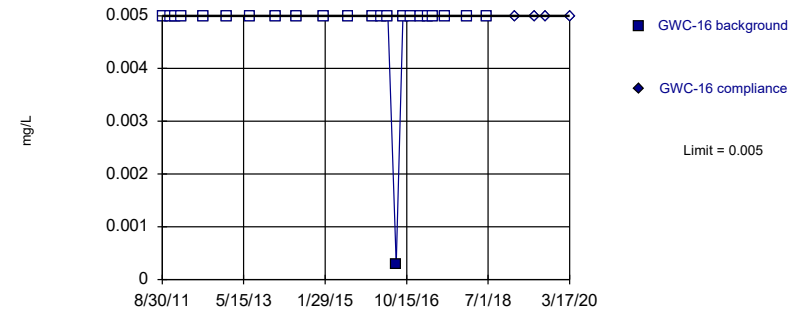


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	<0.005	
1/24/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/10/2013	<0.005	
1/21/2014	<0.005	
7/1/2014	<0.005	
1/21/2015	<0.005	
7/28/2015	<0.005	
1/27/2016	<0.005	
3/29/2016	<0.005	
5/25/2016	<0.005	
7/26/2016	<0.005	
9/15/2016	<0.005	
11/17/2016	<0.005	
1/31/2017	<0.005	
3/23/2017	0.0021	
5/3/2017	<0.005	
8/4/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/22/2019		<0.005
6/25/2019		<0.005
9/12/2019		<0.005
3/12/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.005	
10/27/2011	<0.005	
12/3/2011	<0.005	
1/24/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/10/2013	<0.005	
1/21/2014	<0.005	
7/1/2014	<0.005	
1/14/2015	<0.005	
7/22/2015	<0.005	
1/27/2016	0.0071	
3/30/2016	0.00273 (J)	
4/20/2016	<0.005	
5/25/2016	<0.005	
7/26/2016	<0.005	
9/15/2016	<0.005	
11/17/2016	0.00047 (J)	
2/1/2017	<0.005	
3/23/2017	<0.005	
5/3/2017	<0.005	
8/7/2017	0.00088 (J)	
1/25/2018	0.00025 (J)	
6/20/2018	0.0017	
1/22/2019		<0.005
6/25/2019		<0.005
9/12/2019		0.0032 (J)
3/17/2020		0.0023 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.005	
10/27/2011	<0.005	
12/3/2011	<0.005	
2/9/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/2/2013	<0.005	
1/21/2014	<0.005	
6/24/2014	<0.005	
1/14/2015	<0.005	
7/22/2015	<0.005	
1/27/2016	<0.005	
3/30/2016	<0.005	
5/25/2016	<0.005	
7/26/2016	<0.005	
9/20/2016	<0.005	
11/17/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
5/3/2017	<0.005	
8/4/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	0.00027 (J)	
1/22/2019		<0.005
6/25/2019		<0.005
9/17/2019		<0.005
3/16/2020		<0.005

Prediction Limit

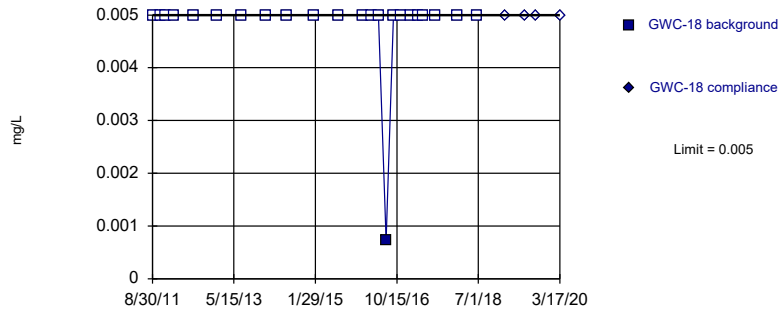
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.005	
10/26/2011	<0.005	
12/3/2011	<0.005	
1/25/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/2/2013	<0.005	
1/14/2014	<0.005	
6/25/2014	<0.005	
1/13/2015	<0.005	
7/22/2015	<0.005	
1/27/2016	<0.005	
3/30/2016	<0.005	
5/25/2016	<0.005	
7/27/2016	0.00029 (J)	
9/16/2016	<0.005	
11/17/2016	<0.005	
2/1/2017	<0.005	
3/24/2017	<0.005	
5/3/2017	<0.005	
8/7/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/25/2019		<0.005
6/25/2019		<0.005
9/11/2019		<0.005
3/17/2020		<0.005

Within Limit

Prediction Limit Intrawell Non-parametric

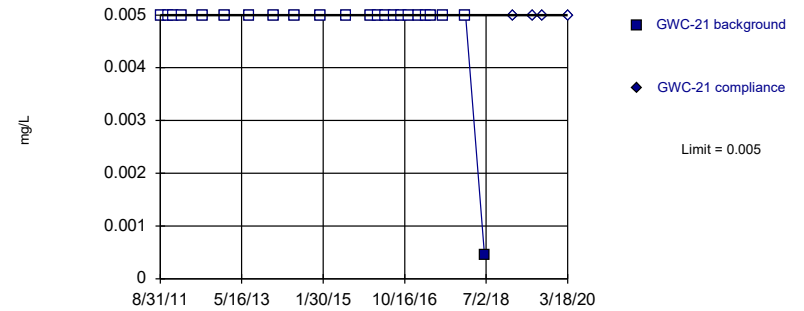


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

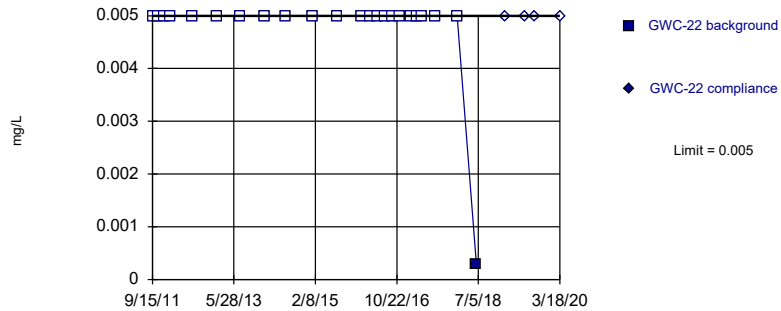


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

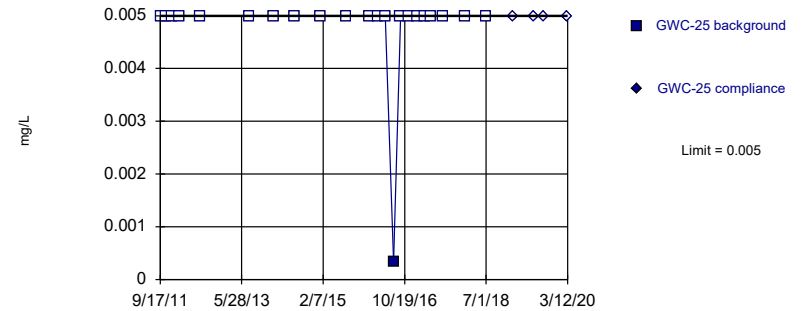


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.005	
10/26/2011	<0.005	
12/3/2011	<0.005	
2/9/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/16/2013	<0.005	
1/14/2014	<0.005	
6/24/2014	<0.005	
1/13/2015	<0.005	
7/23/2015	<0.005	
1/27/2016	<0.005	
3/30/2016	<0.005	
5/26/2016	<0.005	
7/25/2016	0.00073 (J)	
9/19/2016	<0.005	
11/17/2016	<0.005	
2/1/2017	<0.005	
3/24/2017	<0.005	
5/3/2017	<0.005	
8/7/2017	<0.005	
1/25/2018	<0.005	
6/21/2018	<0.005	
1/28/2019		<0.005
6/27/2019		<0.005
9/11/2019		<0.005
3/17/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.005	
10/27/2011	<0.005	
12/4/2011	<0.005	
2/8/2012	<0.005	
7/17/2012	<0.005	
1/9/2013	<0.005	
7/16/2013	<0.005	
1/21/2014	<0.005	
6/24/2014	<0.005	
1/13/2015	<0.005	
7/23/2015	<0.005	
1/26/2016	<0.005	
3/30/2016	<0.005	
5/26/2016	<0.005	
7/26/2016	<0.005	
9/20/2016	<0.005	
11/17/2016	<0.005	
2/2/2017	<0.005	
3/28/2017	<0.005	
5/4/2017	<0.005	
8/7/2017	<0.005	
1/26/2018	<0.005	
6/20/2018	0.00046 (J)	
1/24/2019		<0.005
6/25/2019		<0.005
9/11/2019		<0.005
3/18/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.005	
10/29/2011	<0.005	
12/13/2011	<0.005	
1/25/2012	<0.005	
7/18/2012	<0.005	
1/22/2013	<0.005	
7/16/2013	<0.005	
1/21/2014	<0.005	
6/25/2014	<0.005	
1/14/2015	<0.005	
7/23/2015	<0.005	
1/26/2016	<0.005	
3/31/2016	<0.005	
5/26/2016	<0.005	
7/26/2016	<0.005	
9/20/2016	<0.005	
11/17/2016	<0.005	
2/3/2017	<0.005	
3/28/2017	<0.005	
5/3/2017	<0.005	
8/8/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	0.0003 (J)	
1/24/2019		<0.005
6/25/2019		<0.005
9/10/2019		<0.005
3/18/2020		<0.005

Prediction Limit

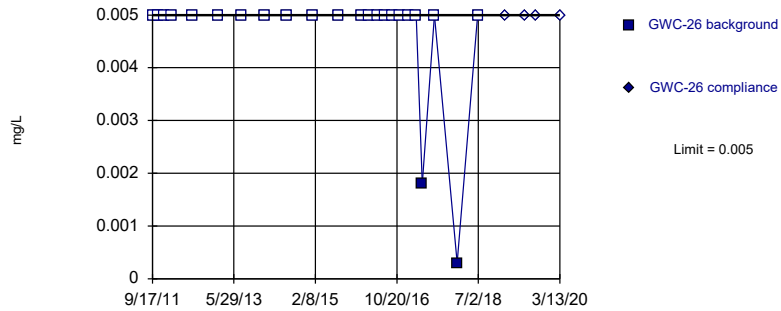
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.005	
10/31/2011	<0.005	
12/14/2011	<0.005	
2/7/2012	<0.005	
7/17/2012	<0.005	
7/24/2013	<0.005	
1/23/2014	<0.005	
7/8/2014	<0.005	
1/21/2015	<0.005	
7/30/2015	<0.005	
1/21/2016	<0.005	
3/28/2016	<0.005	
5/25/2016	<0.005	
7/27/2016	0.00033 (J)	
9/19/2016	<0.005	
11/15/2016	<0.005	
1/24/2017	<0.005	
3/23/2017	<0.005	
5/2/2017	<0.005	
8/3/2017	<0.005	
1/25/2018	<0.005	
6/27/2018	<0.005	
1/24/2019		<0.005
6/25/2019		<0.005
9/11/2019		<0.005
3/12/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

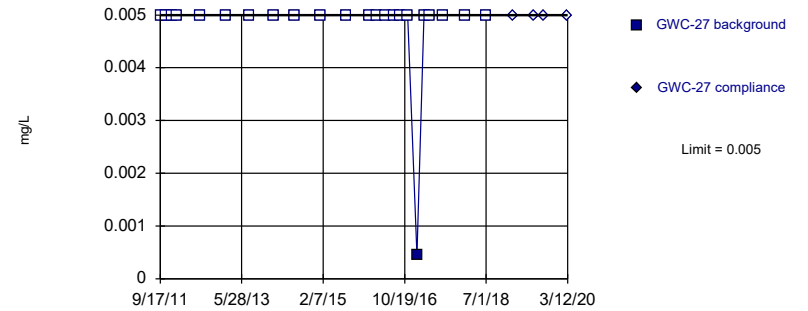


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

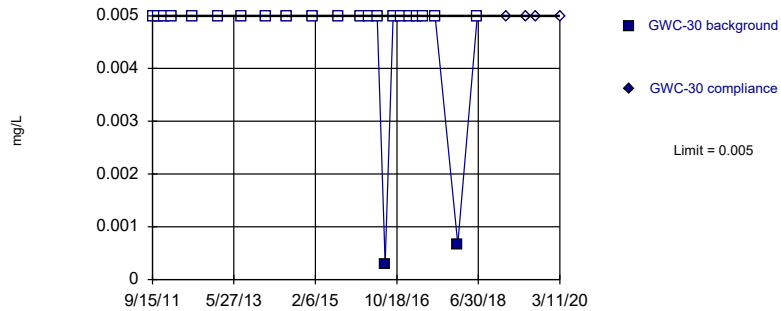


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

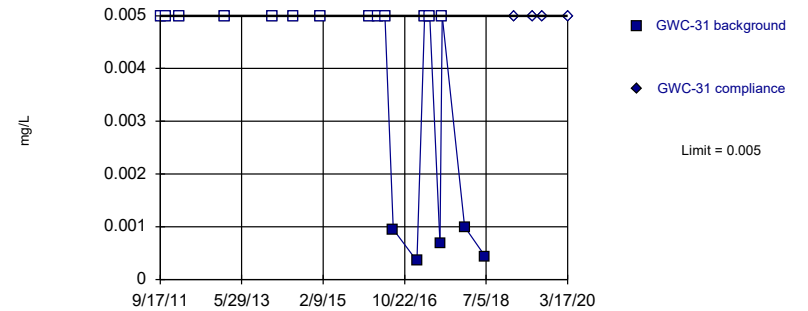


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.001588. Individual comparison alpha = 0.0007943 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.005	
10/29/2011	<0.005	
12/14/2011	<0.005	
2/7/2012	<0.005	
7/17/2012	<0.005	
1/24/2013	<0.005	
7/24/2013	<0.005	
1/23/2014	<0.005	
7/8/2014	<0.005	
1/21/2015	<0.005	
7/31/2015	<0.005	
1/25/2016	<0.005	
3/24/2016	<0.005	
5/25/2016	<0.005	
7/26/2016	<0.005	
9/19/2016	<0.005	
11/14/2016	<0.005	
1/19/2017	<0.005	
3/16/2017	<0.005	
5/1/2017	0.0018	
8/3/2017	<0.005	
1/22/2018	0.0003 (J)	
6/27/2018	<0.005	
1/24/2019		<0.005
6/25/2019		<0.005
9/12/2019		<0.005
3/13/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.005	
10/29/2011	<0.005	
12/14/2011	<0.005	
1/25/2012	<0.005	
7/17/2012	<0.005	
1/24/2013	<0.005	
7/24/2013	<0.005	
1/23/2014	<0.005	
7/8/2014	<0.005	
1/21/2015	<0.005	
7/30/2015	<0.005	
1/22/2016	<0.005	
3/23/2016	<0.005	
5/24/2016	<0.005	
7/26/2016	<0.005	
9/19/2016	<0.005	
11/11/2016	<0.005	
1/20/2017	0.00045 (J)	
3/16/2017	<0.005	
4/28/2017	<0.005	
8/3/2017	<0.005	
1/19/2018	<0.005	
6/27/2018	<0.005	
1/24/2019		<0.005
6/26/2019		<0.005
9/12/2019		<0.005
3/12/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.005	
10/28/2011	<0.005	
12/13/2011	<0.005	
2/8/2012	<0.005	
7/18/2012	<0.005	
1/24/2013	<0.005	
7/24/2013	<0.005	
1/23/2014	<0.005	
7/1/2014	<0.005	
1/20/2015	<0.005	
7/30/2015	<0.005	
1/19/2016	<0.005	
3/23/2016	<0.005	
5/20/2016	<0.005	
7/21/2016	0.0003 (J)	
9/20/2016	<0.005	
11/14/2016	<0.005	
1/24/2017	<0.005	
3/17/2017	<0.005	
5/1/2017	<0.005	
8/4/2017	<0.005 (*)	
1/24/2018	0.00067 (J)	
6/21/2018	<0.005	
1/30/2019		<0.005
6/27/2019		<0.005
9/10/2019		<0.005
3/11/2020		<0.005

Prediction Limit

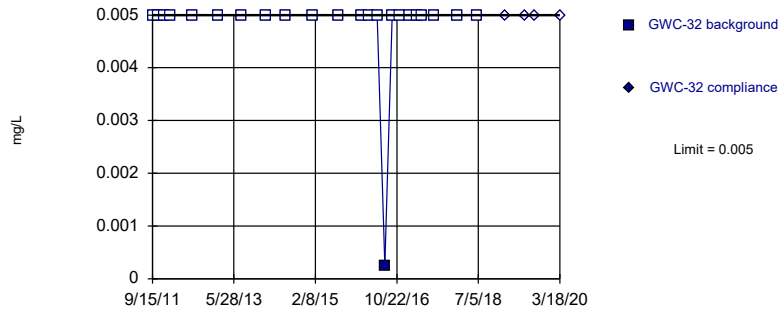
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.005	
10/31/2011	<0.005	
2/7/2012	<0.005	
1/23/2013	<0.005	
1/23/2014	<0.005	
7/1/2014	<0.005	
1/21/2015	<0.005	
1/25/2016	<0.005	
3/30/2016	<0.005	
5/25/2016	<0.005	
7/27/2016	0.00095 (J)	
1/25/2017	0.00035 (J)	
3/23/2017	<0.005	
5/2/2017	<0.005	
7/19/2017	0.00068 (J)	
8/4/2017	<0.005 (*)	
1/23/2018	0.001 (J)	
6/27/2018	0.00044 (J)	
1/31/2019		<0.005
6/26/2019		<0.005
9/11/2019		<0.005
3/17/2020		<0.005

Within Limit

Prediction Limit Intrawell Non-parametric

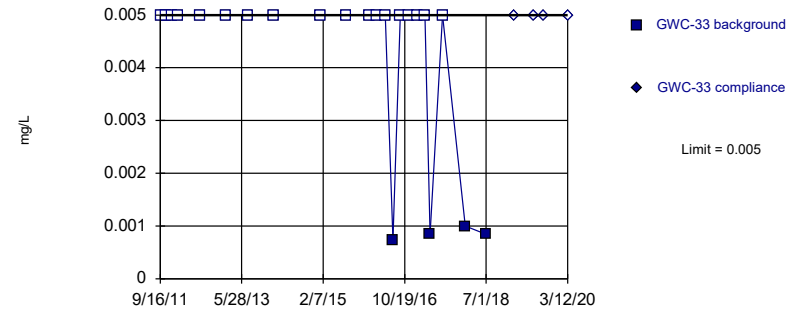


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

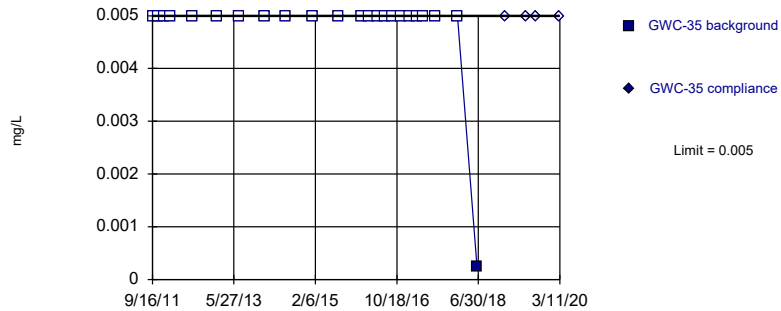


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

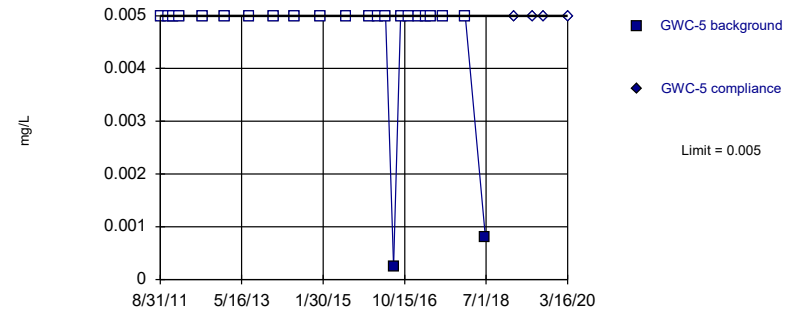


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.005	
10/31/2011	<0.005	
12/13/2011	<0.005	
2/1/2012	<0.005	
7/17/2012	<0.005	
1/23/2013	<0.005	
7/24/2013	<0.005	
1/23/2014	<0.005	
7/1/2014	<0.005	
1/20/2015	<0.005	
7/30/2015	<0.005	
1/25/2016	<0.005	
3/23/2016	<0.005	
5/24/2016	<0.005	
7/22/2016	0.00025 (J)	
9/16/2016	<0.005	
11/15/2016	<0.005	
1/26/2017	<0.005	
3/24/2017	<0.005	
5/2/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/26/2018	<0.005	
1/30/2019		<0.005
6/27/2019		<0.005
9/12/2019		<0.005
3/18/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.005	
10/30/2011	<0.005	
12/13/2011	<0.005	
2/1/2012	<0.005	
7/17/2012	<0.005	
1/23/2013	<0.005	
7/17/2013	<0.005	
1/23/2014	<0.005	
1/20/2015	<0.005	
7/29/2015	<0.005	
1/25/2016	<0.005	
3/23/2016	<0.005	
5/24/2016	<0.005	
7/22/2016	0.00074 (J)	
9/16/2016	<0.005	
11/17/2016	<0.005	
1/25/2017	<0.005	
3/23/2017	<0.005	
5/1/2017	0.00084 (J)	
8/4/2017	<0.005 (*)	
1/23/2018	0.001 (J)	
6/26/2018	0.00085 (J)	
1/30/2019		<0.005
6/26/2019		<0.005
9/12/2019		<0.005
3/12/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.005	
10/31/2011	<0.005	
12/12/2011	<0.005	
2/1/2012	<0.005	
7/16/2012	<0.005	
1/22/2013	<0.005	
7/2/2013	<0.005	
1/21/2014	<0.005	
6/25/2014	<0.005	
1/14/2015	<0.005	
7/28/2015	<0.005	
1/21/2016	<0.005	
3/24/2016	<0.005	
5/23/2016	<0.005	
7/21/2016	<0.005	
9/15/2016	<0.005	
11/15/2016	<0.005	
1/26/2017	<0.005	
3/22/2017	<0.005	
5/2/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/19/2018	0.00025 (J)	
1/21/2019		<0.005
6/26/2019		<0.005
9/12/2019		<0.005
3/11/2020		<0.005

Prediction Limit

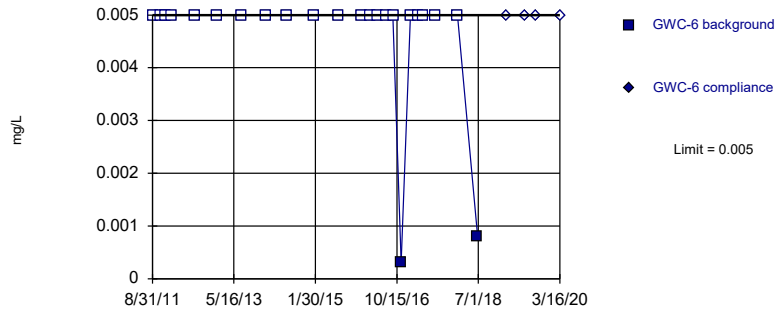
Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.005	
10/27/2011	<0.005	
12/5/2011	<0.005	
1/25/2012	<0.005	
7/18/2012	<0.005	
1/9/2013	<0.005	
7/17/2013	<0.005	
1/15/2014	<0.005	
6/25/2014	<0.005	
1/13/2015	<0.005	
7/24/2015	<0.005	
1/20/2016	<0.005	
3/28/2016	<0.005	
5/23/2016	<0.005	
7/21/2016	0.00025 (J)	
9/15/2016	<0.005	
11/15/2016	<0.005	
1/26/2017	<0.005	
3/22/2017	<0.005	
5/2/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/25/2018	0.0008 (J)	
1/30/2019		<0.005
6/26/2019		<0.005
9/12/2019		<0.005
3/16/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

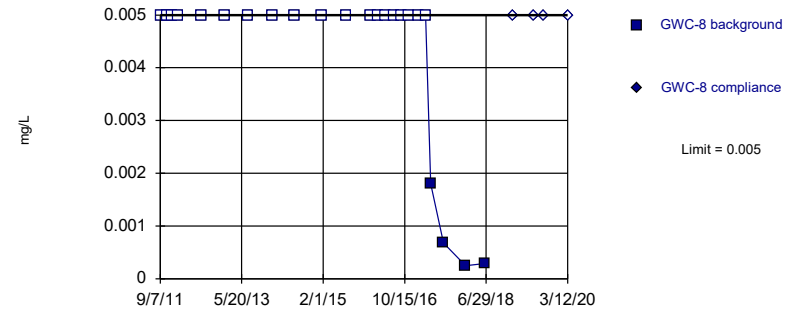


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

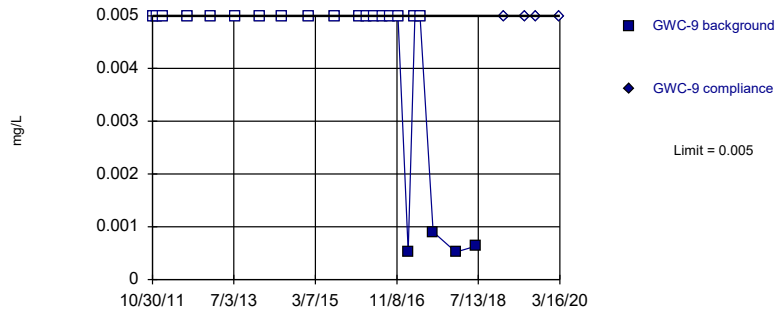


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

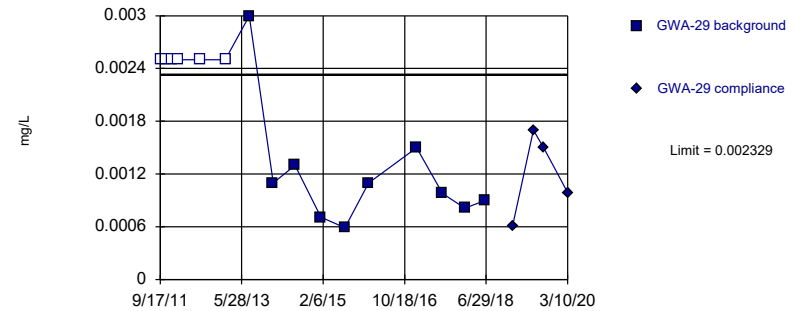


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Selenium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03226, Std. Dev.=0.007215, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8621, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.005	
10/30/2011	<0.005	
12/5/2011	<0.005	
1/25/2012	<0.005	
7/24/2012	<0.005	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/15/2014	<0.005	
6/25/2014	<0.005	
1/20/2015	<0.005	
7/24/2015	<0.005	
1/20/2016	<0.005	
3/28/2016	<0.005	
5/24/2016	<0.005	
7/21/2016	<0.005	
9/15/2016	<0.005	
11/16/2016	0.00031 (J)	
1/26/2017	<0.005	
3/22/2017	<0.005	
5/2/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/25/2018	0.0008 (J)	
1/30/2019		<0.005
6/26/2019		<0.005
9/12/2019		<0.005
3/16/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.005	
10/30/2011	<0.005	
12/5/2011	<0.005	
1/19/2012	<0.005	
7/18/2012	<0.005	
1/7/2013	<0.005	
7/9/2013	<0.005	
1/14/2014	<0.005	
6/24/2014	<0.005	
1/20/2015	<0.005	
7/27/2015	<0.005	
1/26/2016	<0.005	
3/29/2016	<0.005	
5/24/2016	<0.005	
7/26/2016	<0.005	
9/19/2016	<0.005	
11/16/2016	<0.005	
1/26/2017	<0.005	
3/23/2017	<0.005	
5/3/2017	0.0018	
8/7/2017	0.00068 (J)	
1/24/2018	0.00025 (J)	
6/21/2018	0.00029 (J)	
1/22/2019		<0.005
6/25/2019		<0.005
9/10/2019		<0.005
3/12/2020		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	0.015 (O)	
10/30/2011	<0.005	
12/4/2011	<0.005	
1/19/2012	<0.005	
7/18/2012	<0.005	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/14/2014	<0.005	
6/24/2014	<0.005	
1/20/2015	<0.005	
7/27/2015	<0.005	
1/26/2016	<0.005	
3/29/2016	<0.005	
5/24/2016	<0.005	
7/25/2016	<0.005	
9/19/2016	<0.005	
11/16/2016	<0.005	
1/31/2017	0.00053 (J)	
3/23/2017	<0.005	
5/2/2017	<0.005	
8/7/2017	0.0009 (J)	
1/24/2018	0.00052 (J)	
6/21/2018	0.00063 (J)	
1/22/2019		<0.005
6/25/2019		<0.005
9/16/2019		<0.005
3/16/2020		<0.005

Prediction Limit

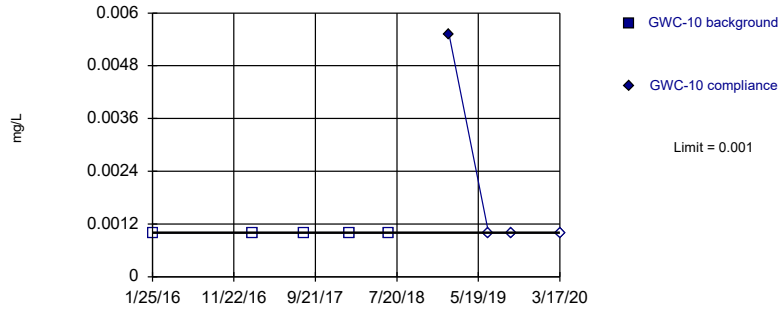
Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.0025	
10/28/2011	<0.0025	
12/12/2011	<0.0025	
1/31/2012	<0.0025	
7/17/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	0.003	
1/22/2014	0.0011 (J)	
7/8/2014	0.0013 (JD)	
1/21/2015	0.00071 (J)	
7/22/2015	0.00059 (J)	
1/19/2016	0.0011 (JD)	
1/17/2017	0.0015	
8/1/2017	0.00098 (J)	
1/19/2018	0.00081 (J)	
6/19/2018	0.0009 (J)	
1/18/2019		0.00061 (J)
6/25/2019		0.0017
9/10/2019		0.0015
3/10/2020		0.00099 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

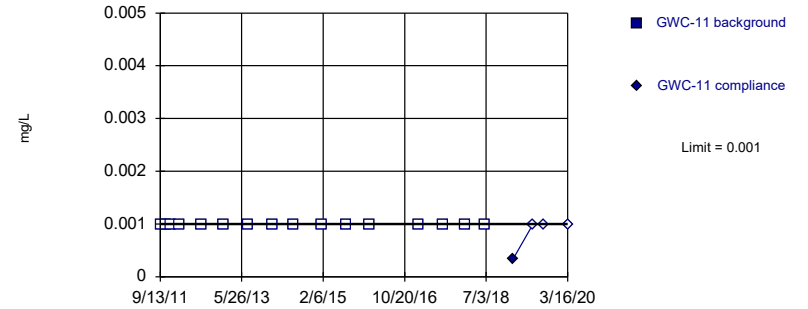


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

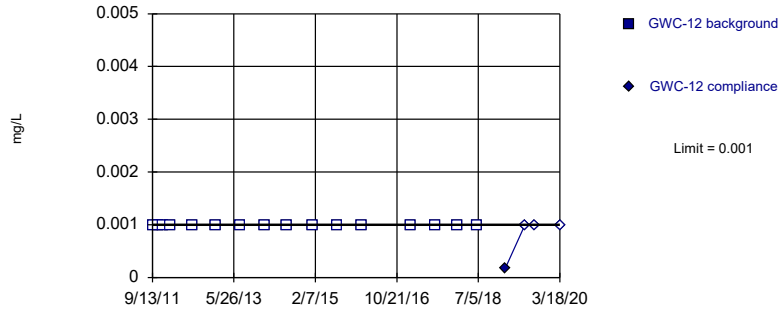


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

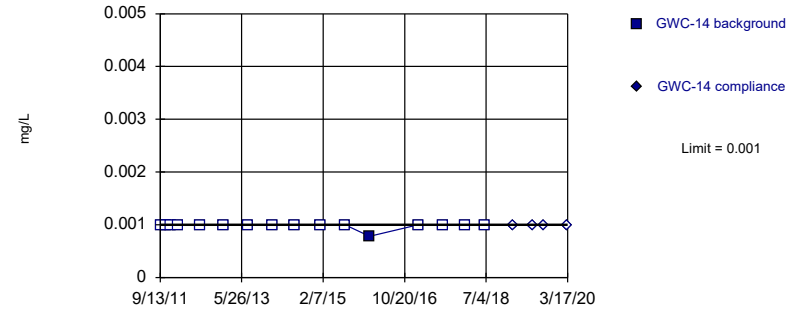


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.001	
2/1/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/31/2019		0.0055
6/26/2019		<0.001
9/17/2019		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:41 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		0.00033 (J)
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		0.00017 (J)
6/26/2019		<0.001
9/11/2019		<0.001
3/18/2020		<0.001

Prediction Limit

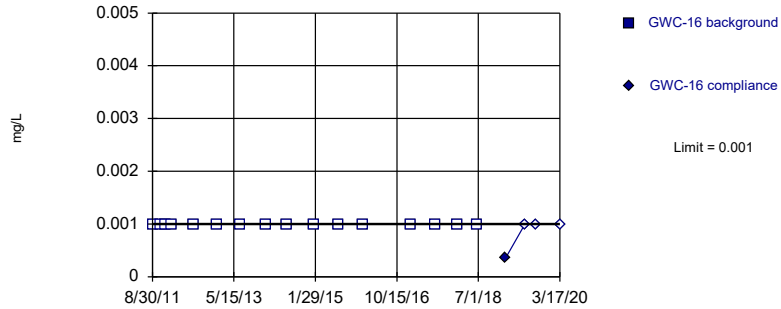
Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	0.00078 (J)	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/12/2019		<0.001
3/17/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

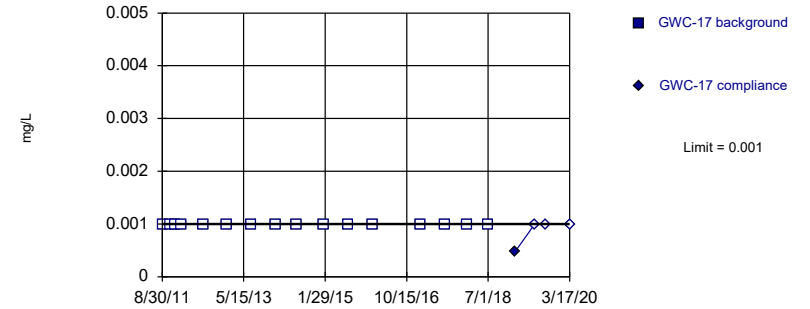


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

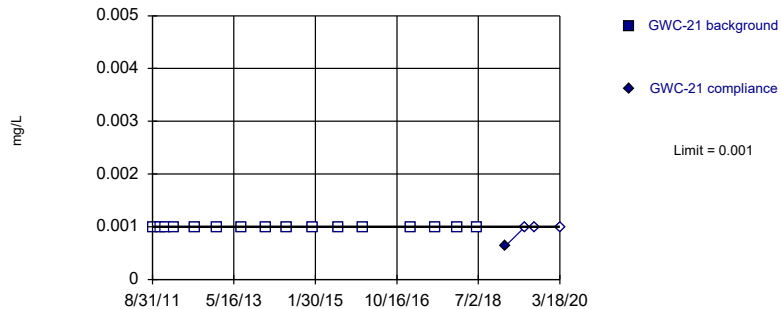


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

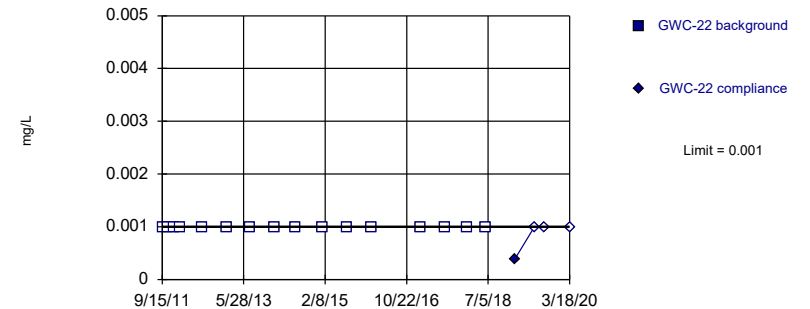


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		0.00035 (J)
6/25/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
1/25/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/14/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/26/2018	<0.001	
1/24/2019		0.00047 (J)
6/25/2019		<0.001
9/11/2019		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/17/2012	<0.001	
1/9/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
2/2/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		0.00063 (J)
6/25/2019		<0.001
9/11/2019		<0.001
3/18/2020		<0.001

Prediction Limit

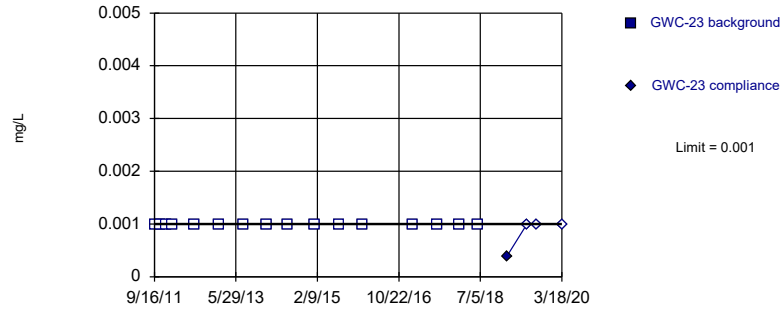
Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
2/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		0.00038 (J)
6/25/2019		<0.001
9/10/2019		<0.001
3/18/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

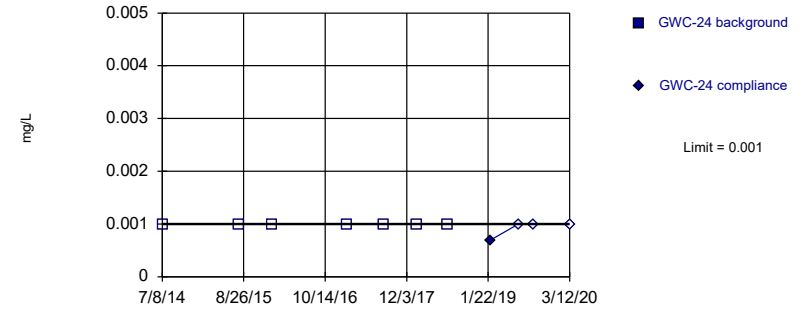


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

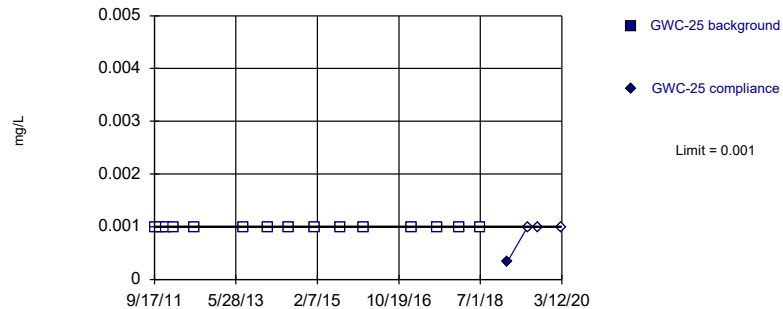


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 7) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

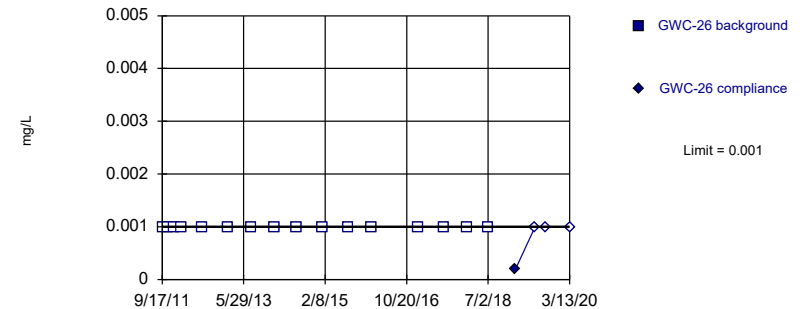


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
2/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		0.00039 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.001	
7/31/2015	<0.001	
1/20/2016	<0.001	
2/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		0.00069 (J)
6/26/2019		<0.001
9/11/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.001	
10/31/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/21/2016	<0.001	
1/24/2017	<0.001	
8/3/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.00034 (J)
6/25/2019		<0.001
9/11/2019		<0.001
3/12/2020		<0.001

Prediction Limit

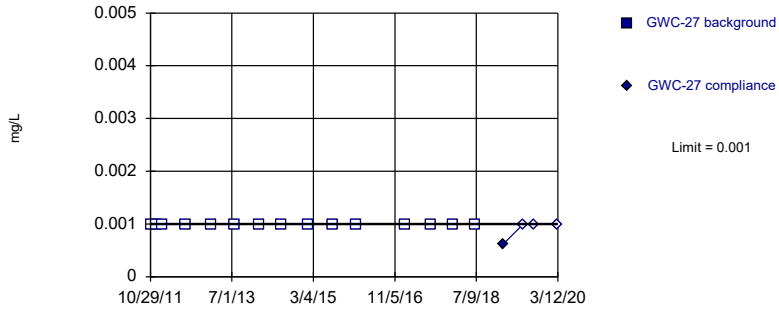
Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/31/2015	<0.001	
1/25/2016	<0.001	
1/19/2017	<0.001	
8/3/2017	<0.001	
1/22/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.00019 (J)
6/25/2019		<0.001
9/12/2019		<0.001
3/13/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

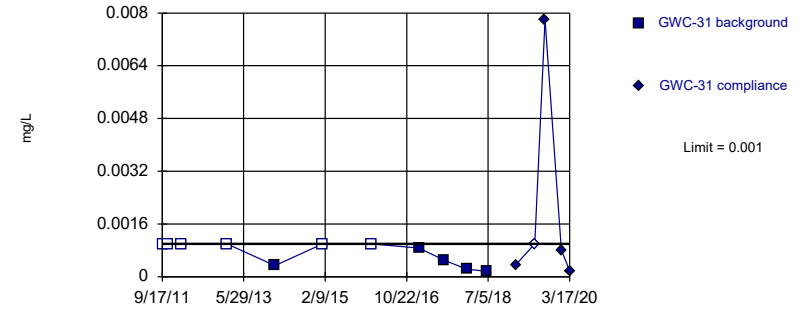


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

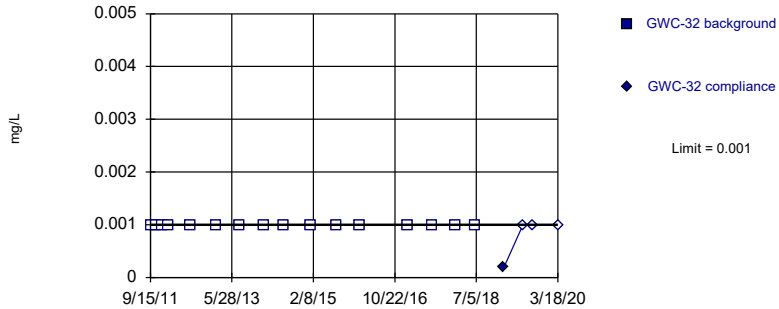


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

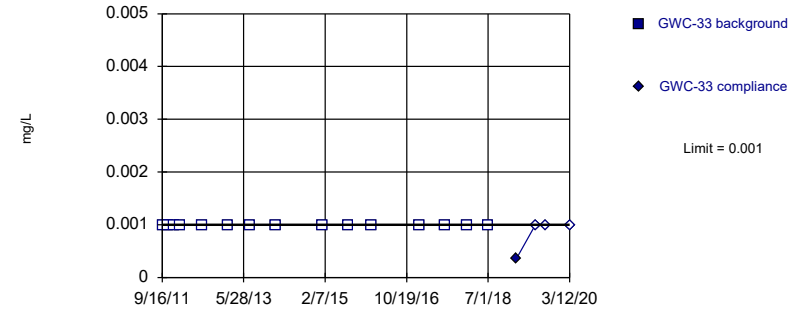


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
10/29/2011	<0.001	
12/14/2011	<0.001	
1/25/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/22/2016	<0.001	
1/20/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.00061 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.001	
10/31/2011	<0.001	
2/7/2012	<0.001	
1/23/2013	<0.001	
1/23/2014	0.00034 (J)	
7/1/2014	0.0039 (O)	
1/21/2015	<0.001	
1/25/2016	<0.001	
1/25/2017	0.00087	
8/4/2017	0.0005 (J)	
1/23/2018	0.00023 (J)	
6/27/2018	0.00016 (J)	
1/31/2019		0.00036 (J)
6/26/2019		<0.001
9/11/2019		0.0078
1/14/2020		0.00081 (J)
3/17/2020		0.00018 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.001	
10/31/2011	<0.001	
12/13/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/1/2014	<0.001	
1/20/2015	<0.001	
7/30/2015	<0.001	
1/25/2016	<0.001	
1/26/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/26/2018	<0.001	
1/30/2019		0.00019 (J)
6/27/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Prediction Limit

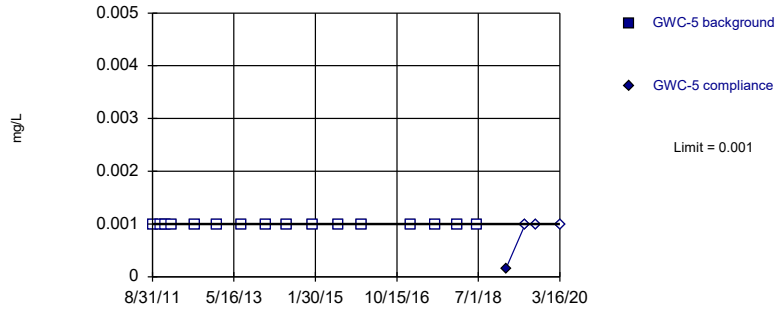
Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.001	
10/30/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
1/20/2015	<0.001	
7/29/2015	<0.001	
1/25/2016	<0.001	
1/25/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	<0.001	
6/26/2018	<0.001	
1/30/2019		0.00035 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

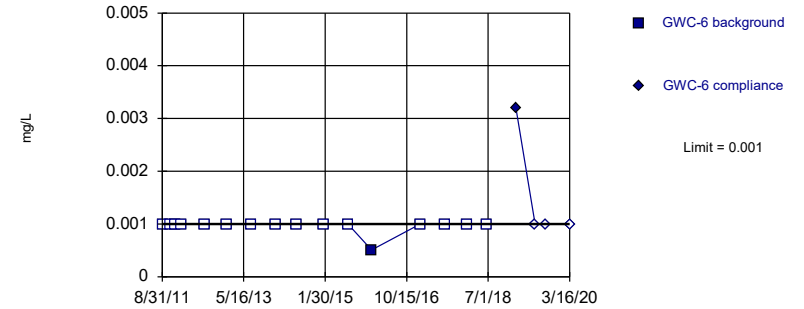


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

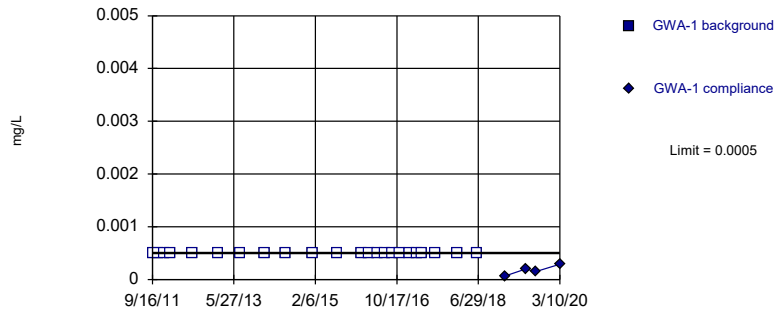


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Silver Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

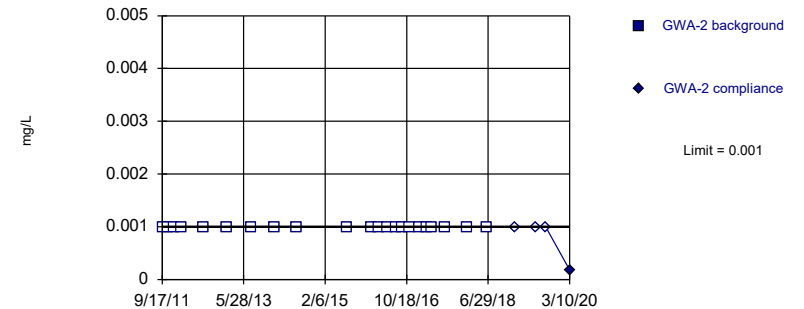


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.001	
10/27/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/9/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/13/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	<0.001	
1/26/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/25/2018	<0.001	
1/30/2019		0.00016 (J)
6/26/2019		<0.001
9/12/2019		<0.001
3/16/2020		<0.001

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/24/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/20/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	0.00051 (J)	
1/26/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/25/2018	<0.001	
1/30/2019		0.0032
6/26/2019		<0.001
9/12/2019		<0.001
3/16/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.0005	
10/27/2011	<0.0005	
12/13/2011	<0.0005	
1/31/2012	<0.0005	
7/18/2012	<0.0005	
1/24/2013	<0.0005	
7/17/2013	<0.0005	
1/21/2014	<0.0005	
6/25/2014	<0.0005	
1/14/2015	<0.0005	
7/21/2015	<0.0005	
1/21/2016	<0.0005	
3/23/2016	<0.0005	
5/20/2016	<0.0005	
7/21/2016	<0.0005	
9/15/2016	<0.0005	
11/11/2016	<0.0005	
1/19/2017	<0.0005	
3/16/2017	<0.0005	
4/28/2017	<0.0005	
8/3/2017	<0.0005	
1/19/2018	<0.0005	
6/19/2018	<0.0005	
1/17/2019		6.6E-05 (J)
6/24/2019		0.0002 (J)
9/9/2019		0.00015 (J)
3/10/2020		0.00029 (J)

Prediction Limit

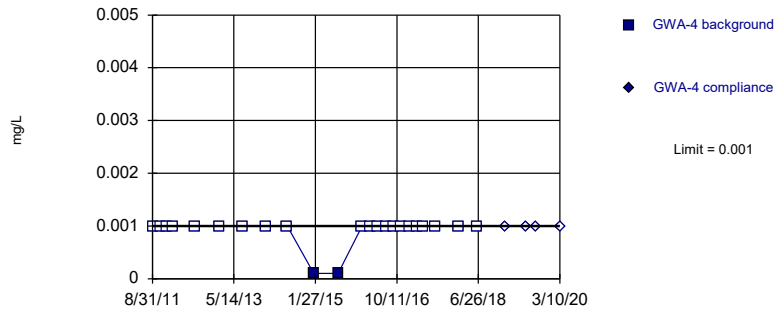
Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
7/22/2015	<0.001	
1/20/2016	<0.001	
3/23/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/16/2016	<0.001	
11/10/2016	<0.001	
1/19/2017	<0.001	
3/17/2017	<0.001	
4/28/2017	<0.001	
8/2/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		<0.001
6/24/2019		<0.001
9/10/2019		<0.001
3/10/2020		0.00018 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

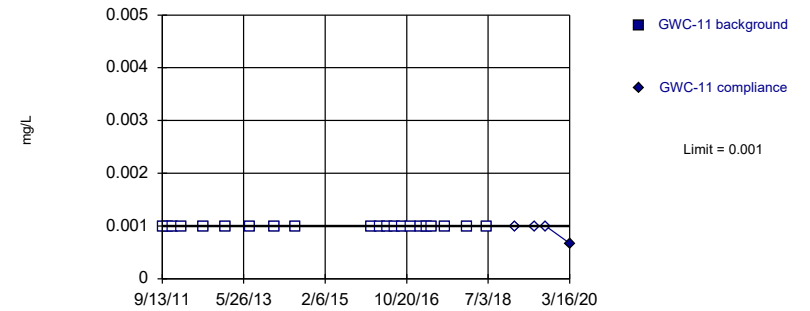


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

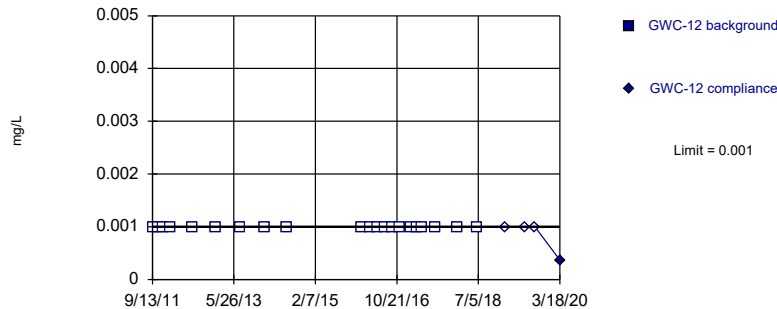


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

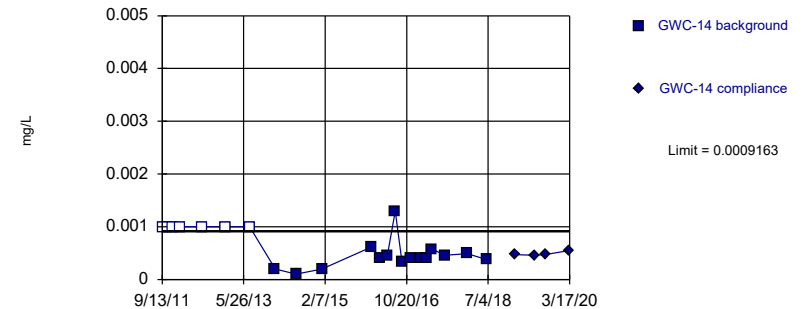


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0004118, Std. Dev.=0.0002469, n=22, 31.82% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8851, critical = 0.878. Kappa = 2.044 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/1/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	0.0001 (J)	
7/21/2015	0.0001 (J)	
1/20/2016	<0.001	
3/23/2016	<0.001	
5/19/2016	<0.001	
7/21/2016	<0.001	
9/14/2016	<0.001	
11/10/2016	<0.001	
1/17/2017	<0.001	
3/16/2017	<0.001	
4/27/2017	<0.001	
8/2/2017	<0.001	
1/22/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		<0.001
6/24/2019		<0.001
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
2/9/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/26/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00067 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/22/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/11/2019		<0.001
3/18/2020		0.00037 (J)

Prediction Limit

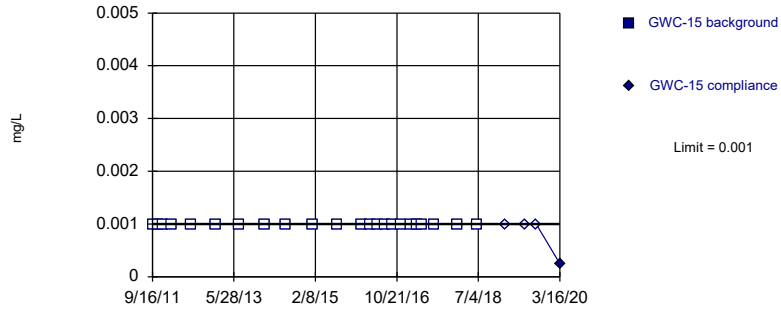
Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	0.0002 (J)	
7/1/2014	0.0001	
1/14/2015	0.0002 (J)	
1/27/2016	0.000616 (J)	
3/30/2016	0.000411 (J)	
5/25/2016	0.000445 (J)	
7/26/2016	0.0013	
9/15/2016	0.00033 (J)	
11/17/2016	0.00041 (J)	
2/1/2017	0.00041 (J)	
3/23/2017	0.0004 (J)	
5/3/2017	0.00058	
8/7/2017	0.00046 (J)	
1/25/2018	0.00049 (J)	
6/20/2018	0.00038 (J)	
1/22/2019		0.00047 (J)
6/25/2019		0.00046 (J)
9/12/2019		0.00047 (J)
3/17/2020		0.00055 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

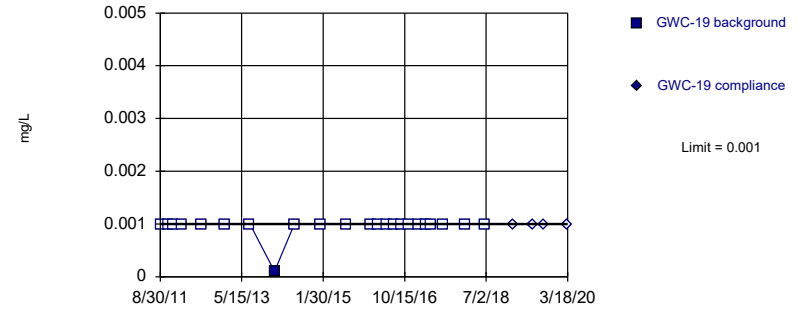


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

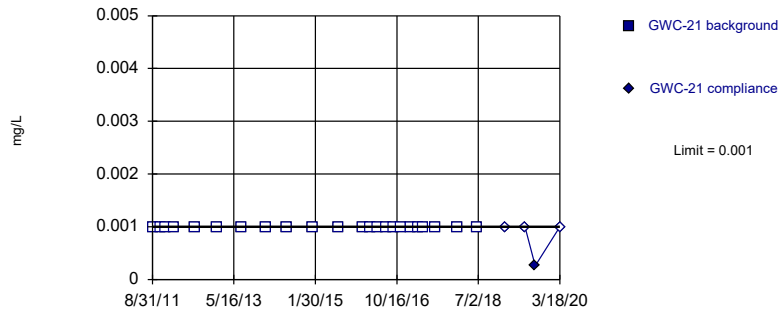


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

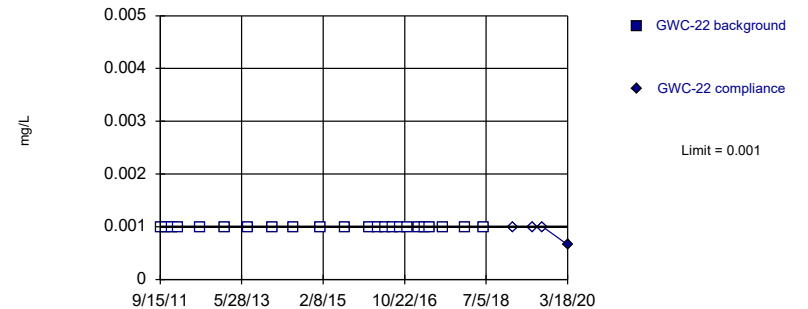


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
5/3/2017	<0.001	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/17/2019		<0.001
3/16/2020		0.00025 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	0.0001 (J)	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/27/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
5/3/2017	<0.001	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/21/2018	<0.001	
1/28/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/17/2012	<0.001	
1/9/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/30/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/2/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/7/2017	<0.001	
1/26/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/11/2019		0.00026 (J)
3/18/2020		<0.001

Prediction Limit

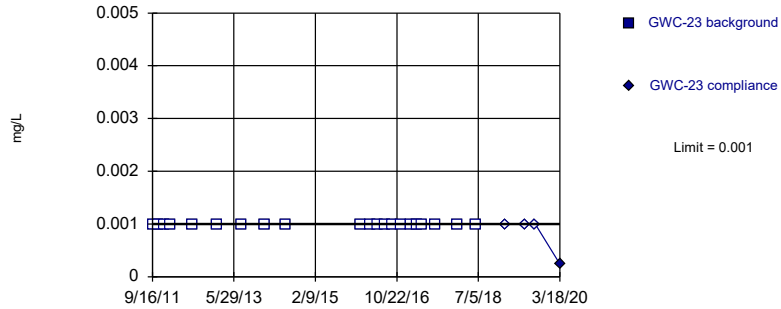
Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
7/26/2016	<0.001	
9/20/2016	<0.001	
11/17/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/3/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/18/2020		0.00066 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

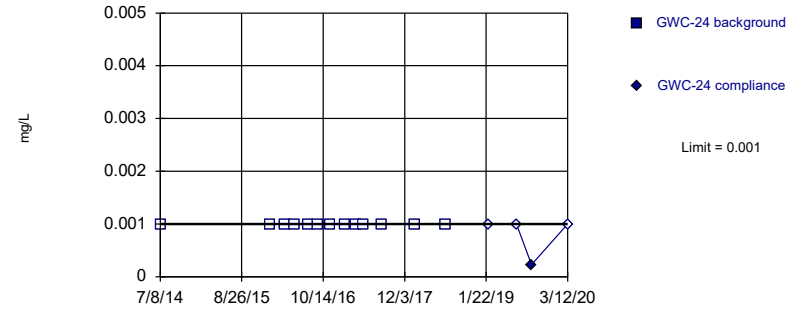


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

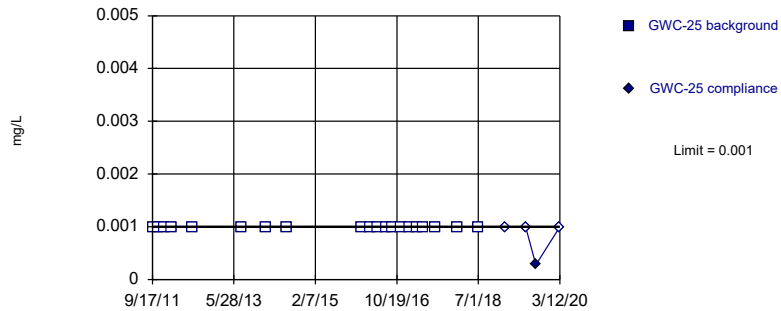


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 13) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003769. Individual comparison alpha = 0.001886 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

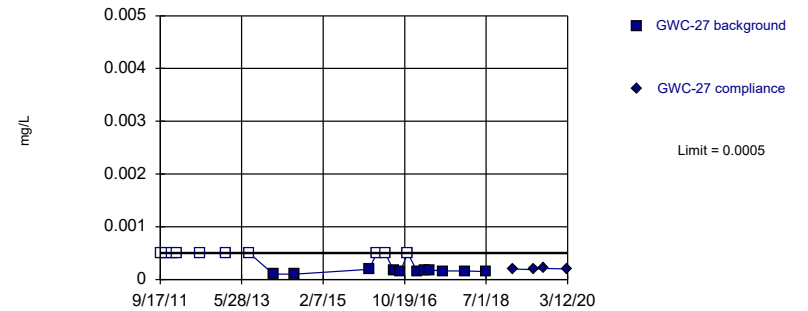


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:37 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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. 47.62% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/21/2016	<0.001	
3/29/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/20/2016	<0.001	
11/18/2016	<0.001	
2/3/2017	<0.001	
3/28/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/25/2019		<0.001
6/26/2019		<0.001
9/12/2019		<0.001
3/18/2020		0.00024 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.001	
1/20/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/16/2016	<0.001	
11/18/2016	<0.001	
2/3/2017	<0.001	
3/29/2017	<0.001	
5/4/2017	<0.001	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		<0.001
6/26/2019		<0.001
9/11/2019		0.00023 (J)
3/12/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	<0.001	
10/31/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2016	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
9/19/2016	<0.001	
11/15/2016	<0.001	
1/24/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		<0.001
6/25/2019		<0.001
9/11/2019		0.00028 (J)
3/12/2020		<0.001

Prediction Limit

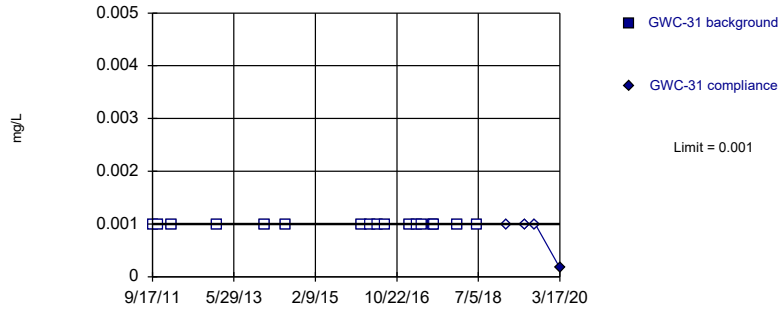
Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.0005	
10/29/2011	<0.0005	
12/14/2011	<0.0005	
1/25/2012	<0.0005	
7/17/2012	<0.0005	
1/24/2013	<0.0005	
7/24/2013	<0.0005	
1/23/2014	0.0001 (J)	
7/8/2014	0.0001	
1/22/2016	0.000193 (J)	
3/23/2016	<0.0005	
5/24/2016	<0.0005	
7/26/2016	0.00017 (J)	
9/19/2016	0.00016 (J)	
11/11/2016	<0.0005	
1/20/2017	0.00016 (J)	
3/16/2017	0.00017 (J)	
4/28/2017	0.00018 (J)	
8/3/2017	0.00016 (J)	
1/19/2018	0.00016 (J)	
6/27/2018	0.00015 (J)	
1/24/2019		0.0002 (J)
6/26/2019		0.00019 (J)
9/12/2019		0.00021 (J)
3/12/2020		0.0002 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

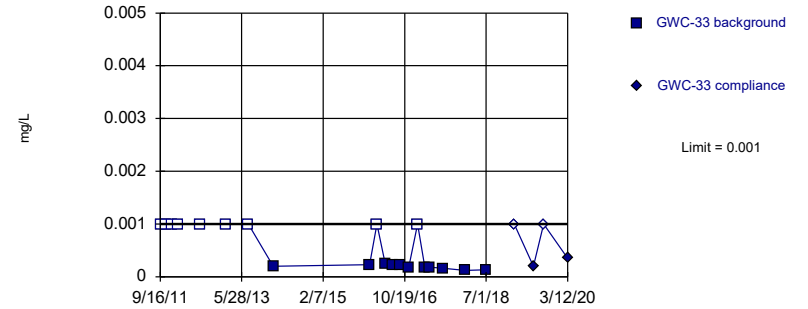


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00182. Individual comparison alpha = 0.0009102 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

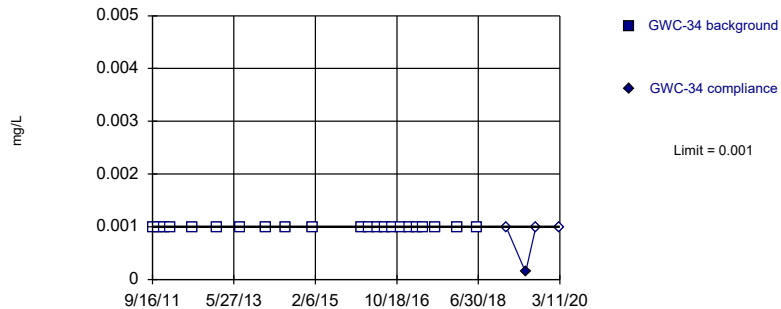


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.001125. Individual comparison alpha = 0.0005627 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

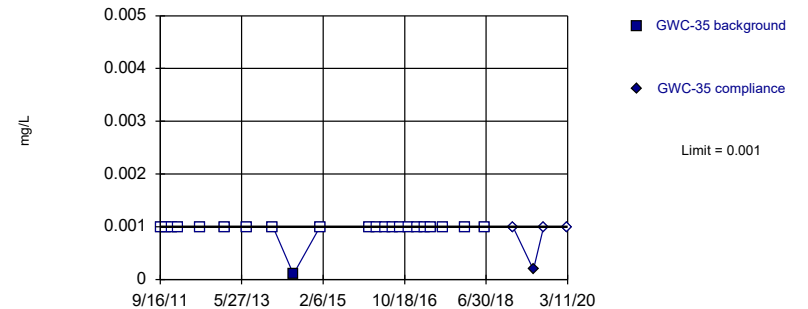


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.001	
10/31/2011	<0.001	
2/7/2012	<0.001	
1/23/2013	<0.001	
1/23/2014	<0.001	
7/1/2014	<0.001	
1/25/2016	<0.001	
3/30/2016	<0.001	
5/25/2016	<0.001	
7/27/2016	<0.001	
1/25/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
7/19/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		<0.001
6/26/2019		<0.001
9/11/2019		<0.001
3/17/2020		0.00017 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.001	
10/30/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	0.0002 (J)	
1/25/2016	0.000227 (J)	
3/23/2016	<0.001	
5/24/2016	0.000242 (J)	
7/22/2016	0.00022 (J)	
9/16/2016	0.00021 (J)	
11/17/2016	0.00017 (J)	
1/25/2017	<0.001	
3/23/2017	0.00017 (J)	
5/1/2017	0.00018 (J)	
8/4/2017	0.00016 (J)	
1/23/2018	0.00012 (J)	
6/26/2018	0.00013 (J)	
1/30/2019		<0.001
6/26/2019		0.0002 (J)
9/12/2019		<0.001
3/12/2020		0.00035 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
1/21/2016	<0.001	
3/24/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/25/2017	<0.001	
3/22/2017	<0.001	
5/1/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/20/2018	<0.001	
1/28/2019		<0.001
6/26/2019		0.00014 (J)
9/11/2019		<0.001
3/11/2020		<0.001

Prediction Limit

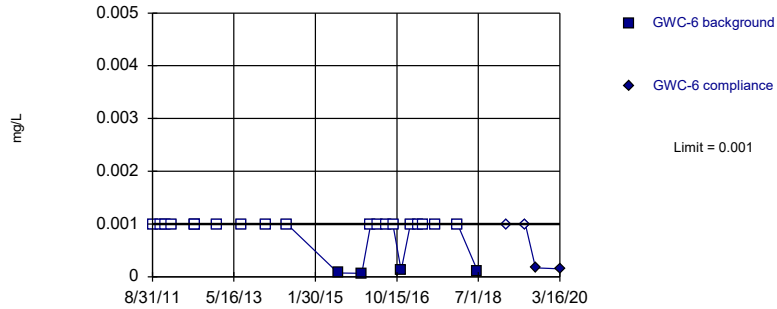
Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	0.0001	
1/14/2015	<0.001	
1/21/2016	<0.001	
3/24/2016	<0.001	
5/23/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/15/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/19/2018	<0.001	
1/21/2019		<0.001
6/26/2019		0.00019 (J)
9/12/2019		<0.001
3/11/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

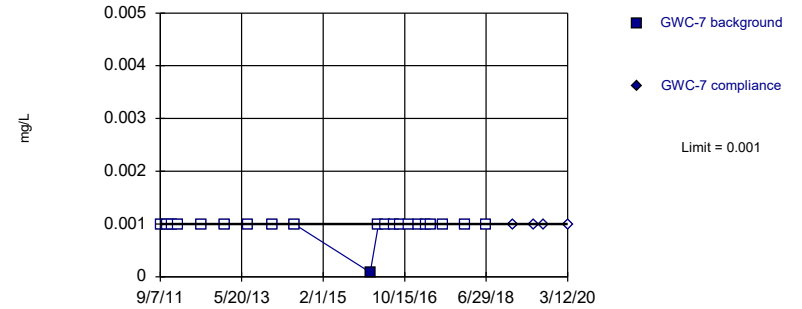


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

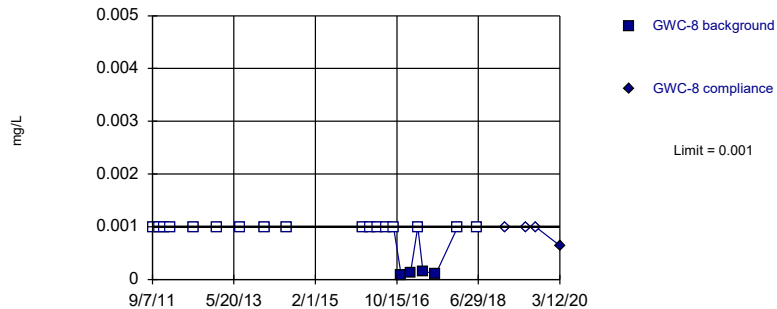


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

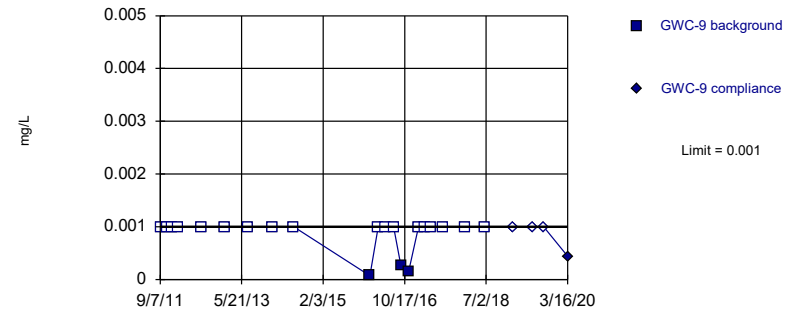


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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. 85.71% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Thallium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/23/2012	<0.001	
7/24/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	<0.001	
6/25/2014	<0.001	
7/24/2015	7E-05 (J)	
1/20/2016	6.7E-05 (J)	
3/28/2016	<0.001	
5/24/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	0.00012 (J)	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/25/2018	0.00011 (J)	
1/30/2019		<0.001
6/26/2019		<0.001
9/12/2019		0.00017 (J)
3/16/2020		0.00015 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/26/2016	8.5E-05 (J)	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/22/2016	<0.001	
9/15/2016	<0.001	
11/16/2016	<0.001	
1/26/2017	<0.001	
3/22/2017	<0.001	
5/2/2017	<0.001	
8/4/2017	<0.001	
1/23/2018	<0.001	
6/25/2018	<0.001	
1/21/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/26/2016	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/26/2016	<0.001	
9/19/2016	<0.001	
11/16/2016	9E-05 (J)	
1/26/2017	0.00012 (J)	
3/23/2017	<0.001	
5/3/2017	0.00016 (J)	
8/7/2017	0.0001 (J)	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/10/2019		<0.001
3/12/2020		0.00064 (J)

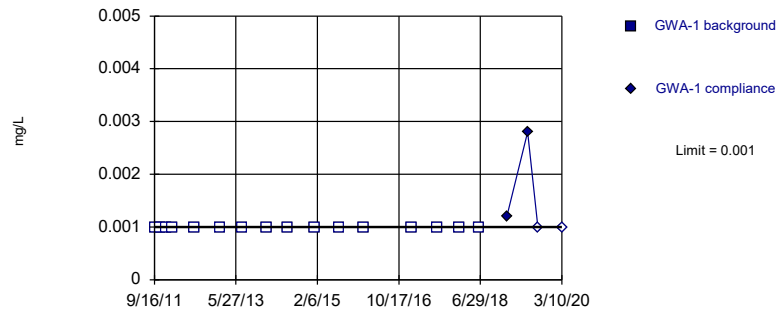
Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.001	
10/30/2011	<0.001	
12/4/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	<0.001	
1/26/2016	7.3E-05 (J)	
3/29/2016	<0.001	
5/24/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	0.00026 (J)	
11/16/2016	0.00015 (J)	
1/31/2017	<0.001	
3/23/2017	<0.001	
5/2/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		<0.001
6/25/2019		<0.001
9/16/2019		<0.001
3/16/2020		0.00044 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

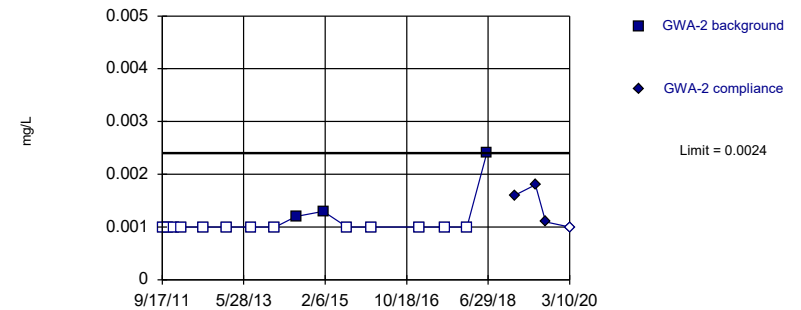


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

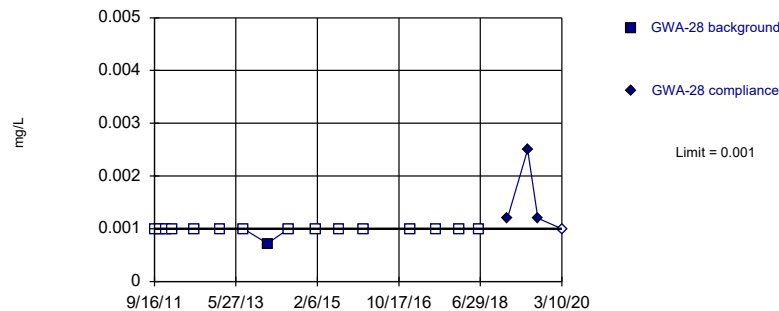


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

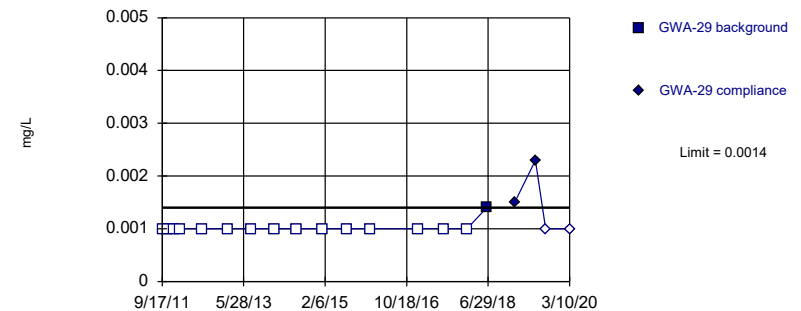


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	<0.001	
10/27/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/24/2013	<0.001	
7/17/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/21/2015	<0.001	
1/21/2016	<0.001	
1/19/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/17/2019		0.0012
6/24/2019		0.0028
9/9/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	0.0012 (J)	
1/22/2015	0.0013 (J)	
7/22/2015	<0.001	
1/20/2016	<0.001	
1/19/2017	<0.001	
8/2/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	0.0024 (J)	
1/17/2019		0.0016
6/24/2019		0.0018
9/10/2019		0.0011
3/10/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	<0.001	
10/28/2011	<0.001	
12/12/2011	<0.001	
1/25/2012	<0.001	
7/16/2012	<0.001	
1/24/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	0.00072 (J)	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/21/2015	<0.001	
1/22/2016	<0.001	
1/17/2017	<0.001	
8/1/2017	<0.001	
1/19/2018	<0.001	
6/19/2018	<0.001	
1/21/2019		0.0012
6/25/2019		0.0025
9/10/2019		0.0012
3/10/2020		<0.001

Prediction Limit

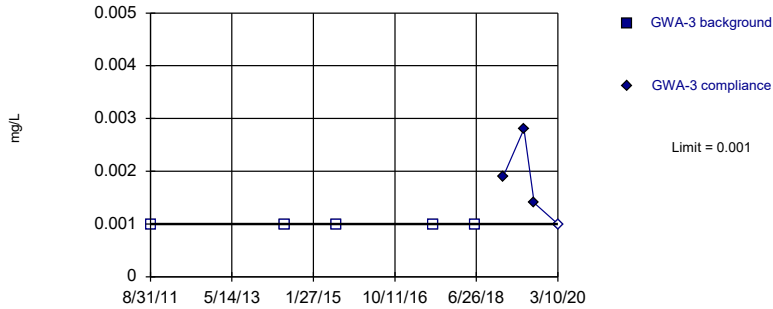
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	<0.001	
10/28/2011	<0.001	
12/12/2011	<0.001	
1/31/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/22/2014	<0.001	
7/8/2014	<0.001 (D)	
1/21/2015	<0.001	
7/22/2015	<0.001	
1/19/2016	<0.001 (D)	
1/17/2017	<0.001	
8/1/2017	<0.001 (*)	
1/19/2018	<0.001	
6/19/2018	0.0014 (J)	
1/18/2019		0.0015
6/25/2019		0.0023
9/10/2019		<0.001
3/10/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

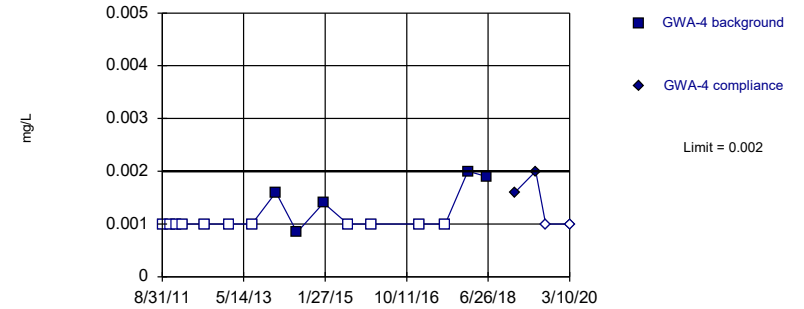


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

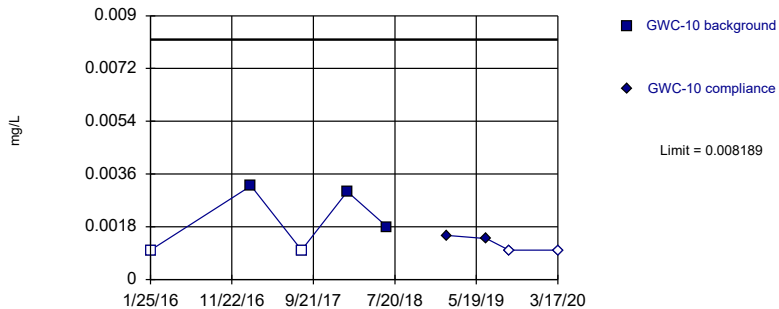


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

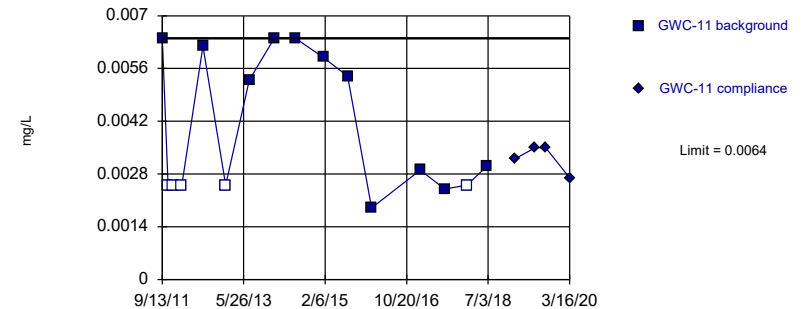


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002, Std. Dev.=0.0009466, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8442, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 31.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	<0.001	
6/25/2014	<0.001	
7/21/2015	<0.001	
8/1/2017	<0.001	
6/20/2018	<0.001	
1/18/2019		0.0019
6/25/2019		0.0028
9/11/2019		0.0014
3/10/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.001	
10/27/2011	<0.001	
12/14/2011	<0.001	
2/1/2012	<0.001	
7/23/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/15/2014	0.0016 (J)	
6/25/2014	0.00084 (J)	
1/14/2015	0.0014 (J)	
7/21/2015	<0.001	
1/20/2016	<0.001	
1/17/2017	<0.001	
8/2/2017	<0.001	
1/22/2018	0.002 (J)	
6/19/2018	0.0019 (J)	
1/17/2019		0.0016
6/24/2019		0.002
9/10/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	<0.001	
2/1/2017	0.0032	
8/8/2017	<0.001	
1/25/2018	0.003	
6/21/2018	0.0018 (J)	
1/31/2019		0.0015
6/26/2019		0.0014
9/17/2019		<0.001
3/17/2020		<0.001

Prediction Limit

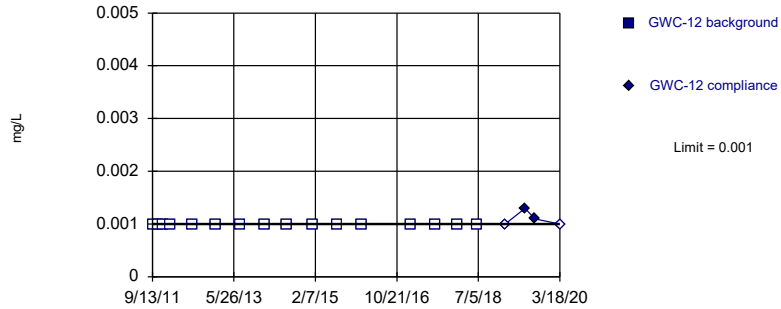
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	0.0064	
10/28/2011	<0.0025	
12/4/2011	<0.0025	
2/9/2012	<0.0025	
7/18/2012	0.0062	
1/8/2013	<0.0025	
7/9/2013	0.0053	
1/15/2014	0.0064	
6/25/2014	0.0064	
1/21/2015	0.0059	
7/28/2015	0.0054	
1/26/2016	0.0019 (J)	
1/31/2017	0.0029	
8/7/2017	0.0024 (J)	
1/24/2018	<0.0025	
6/20/2018	0.003	
1/24/2019		0.0032
6/26/2019		0.0035
9/16/2019		0.0035
3/16/2020		0.0027

Within Limit

Prediction Limit
Intrawell Non-parametric

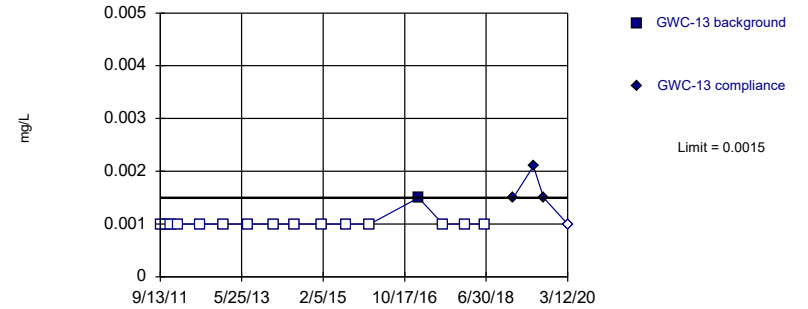


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

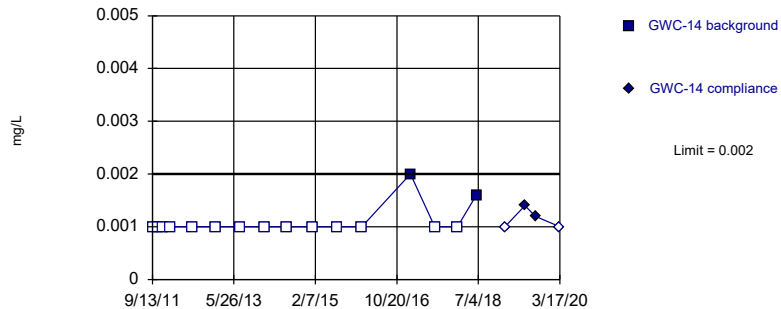


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

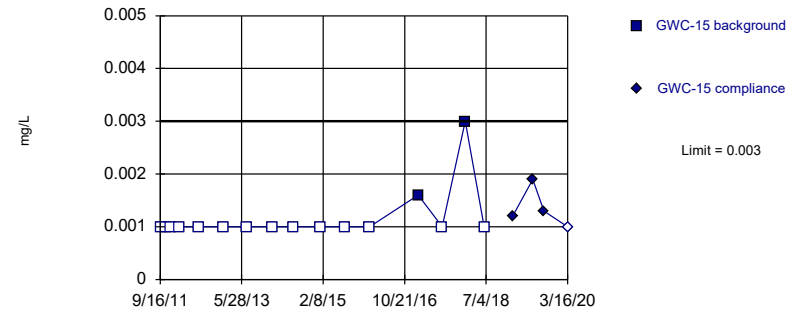


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/26/2018	<0.001	
1/25/2019		<0.001
6/26/2019		0.0013
9/11/2019		0.0011
3/18/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.001	
10/28/2011	<0.001	
12/4/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/21/2015	<0.001	
7/28/2015	<0.001	
1/27/2016	<0.001	
1/31/2017	0.0015 (J)	
8/4/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	<0.001	
1/22/2019		0.0015
6/25/2019		0.0021
9/12/2019		0.0015
3/12/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
1/24/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/10/2013	<0.001	
1/21/2014	<0.001	
7/1/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	0.002 (J)	
8/7/2017	<0.001	
1/25/2018	<0.001	
6/20/2018	0.0016 (J)	
1/22/2019		<0.001
6/25/2019		0.0014
9/12/2019		0.0012
3/17/2020		<0.001

Prediction Limit

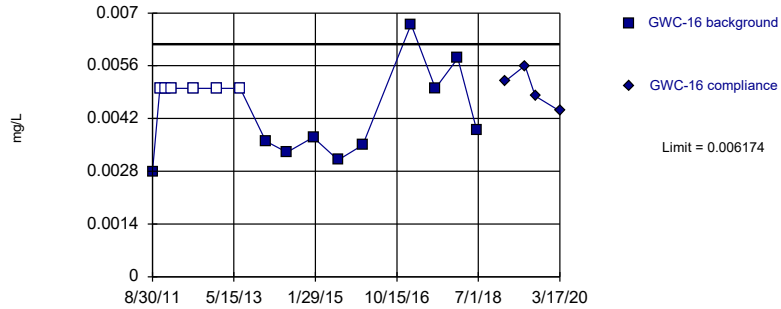
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.001	
10/27/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/14/2015	<0.001	
7/22/2015	<0.001	
1/27/2016	<0.001	
2/1/2017	0.0016 (J)	
8/4/2017	<0.001	
1/25/2018	0.003	
6/20/2018	<0.001	
1/22/2019		0.0012
6/25/2019		0.0019
9/17/2019		0.0013
3/16/2020		<0.001

Within Limit

Prediction Limit
Intrawell Parametric

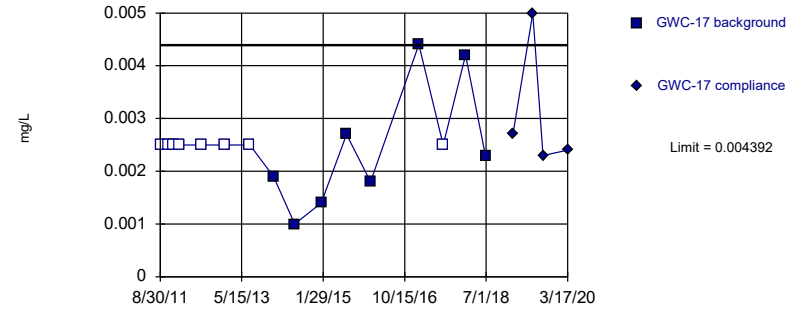


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003868, Std. Dev.=0.001039, n=16, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9117, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

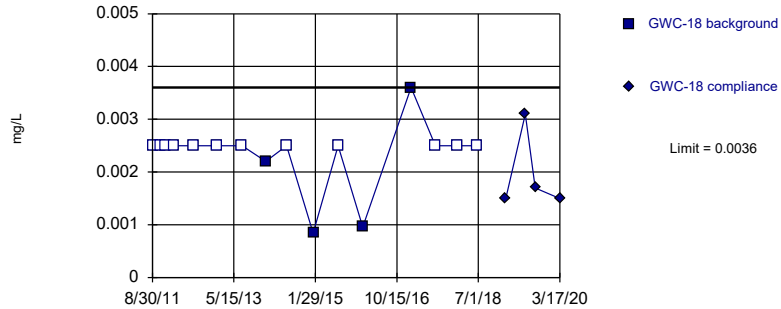


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04443, Std. Dev.=0.009845, n=16, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8643, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

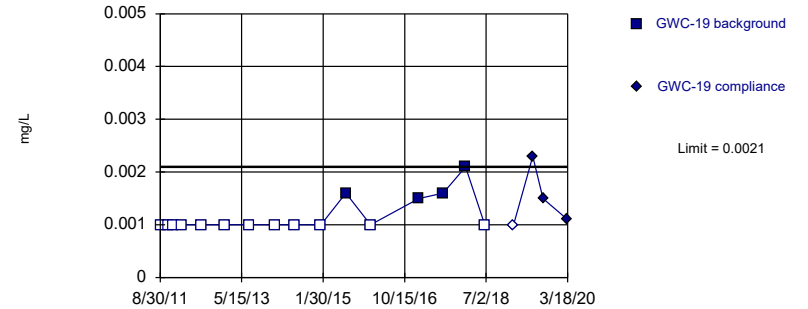


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	0.0028	
10/26/2011	<0.005	
12/3/2011	<0.005	
1/25/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/2/2013	<0.005	
1/14/2014	0.0036 (J)	
6/25/2014	0.0033 (J)	
1/13/2015	0.0037 (J)	
7/22/2015	0.0031 (J)	
1/27/2016	0.0035 (J)	
2/1/2017	0.0067	
8/7/2017	0.005	
1/25/2018	0.0058	
6/20/2018	0.0039	
1/25/2019		0.0052
6/25/2019		0.0056
9/11/2019		0.0048
3/17/2020		0.0044

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	<0.0025	
10/27/2011	<0.0025	
12/3/2011	<0.0025	
1/25/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/14/2014	0.0019 (J)	
6/25/2014	0.001 (J)	
1/14/2015	0.0014 (J)	
7/28/2015	0.0027 (J)	
1/27/2016	0.0018 (J)	
2/1/2017	0.0044	
8/7/2017	<0.0025	
1/25/2018	0.0042	
6/26/2018	0.0023 (J)	
1/24/2019		0.0027
6/25/2019		0.005
9/11/2019		0.0023
3/17/2020		0.0024

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.0025	
10/26/2011	<0.0025	
12/3/2011	<0.0025	
2/8/2012	<0.0025	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/16/2013	<0.0025	
1/14/2014	0.0022 (J)	
6/24/2014	<0.0025	
1/13/2015	0.00084 (J)	
7/23/2015	<0.0025	
1/27/2016	0.00096 (J)	
2/1/2017	0.0036	
8/7/2017	<0.0025	
1/25/2018	<0.0025	
6/21/2018	<0.0025	
1/28/2019		0.0015
6/27/2019		0.0031
9/11/2019		0.0017
3/17/2020		0.0015

Prediction Limit

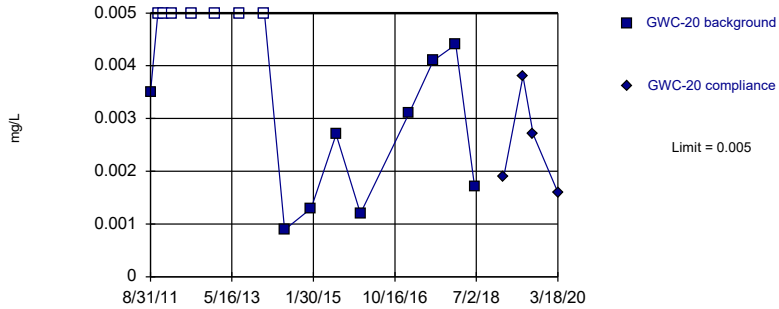
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	<0.001	
10/26/2011	<0.001	
12/3/2011	<0.001	
2/8/2012	<0.001	
7/11/2012	<0.001	
1/8/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	0.0016 (J)	
1/27/2016	<0.001	
2/2/2017	0.0015 (J)	
8/7/2017	0.0016 (J)	
1/25/2018	0.0021 (J)	
6/21/2018	<0.001	
1/28/2019		<0.001
6/26/2019		0.0023
9/12/2019		0.0015
3/18/2020		0.0011

Within Limit

Prediction Limit
Intrawell Non-parametric

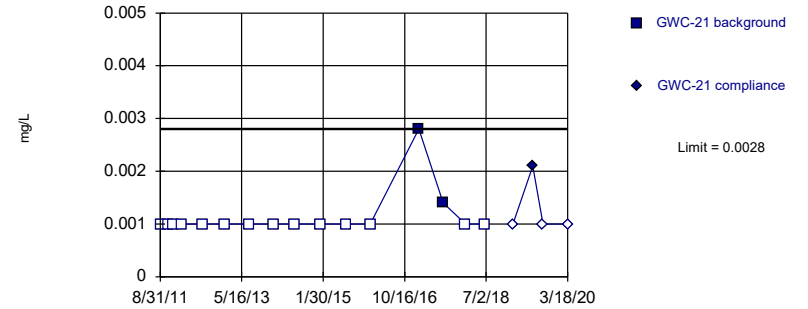


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 43.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

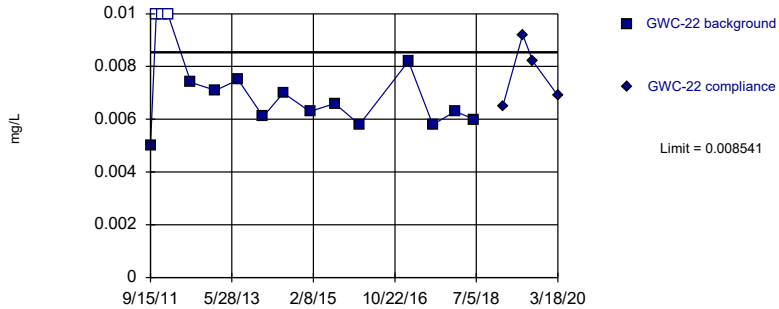


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

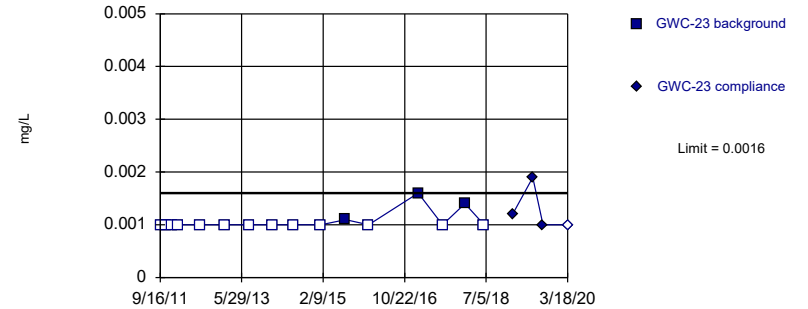


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006429, Std. Dev.=0.0009517, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8721, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	0.0035	
10/27/2011	<0.005	
12/4/2011	<0.005	
2/8/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/16/2013	<0.005	
1/21/2014	<0.005	
6/24/2014	0.00089 (J)	
1/13/2015	0.0013 (J)	
7/23/2015	0.0027 (J)	
1/27/2016	0.0012 (J)	
2/2/2017	0.0031	
8/7/2017	0.0041	
1/26/2018	0.0044	
6/21/2018	0.0017 (J)	
1/28/2019		0.0019
6/25/2019		0.0038
9/11/2019		0.0027
3/18/2020		0.0016

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	<0.001	
10/27/2011	<0.001	
12/4/2011	<0.001	
2/8/2012	<0.001	
7/17/2012	<0.001	
1/9/2013	<0.001	
7/16/2013	<0.001	
1/21/2014	<0.001	
6/24/2014	<0.001	
1/13/2015	<0.001	
7/23/2015	<0.001	
1/26/2016	<0.001	
2/2/2017	0.0028	
8/7/2017	0.0014 (J)	
1/26/2018	<0.001	
6/20/2018	<0.001	
1/24/2019		<0.001
6/25/2019		0.0021
9/11/2019		<0.001
3/18/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	0.005	
10/29/2011	<0.01	
12/13/2011	<0.01	
1/25/2012	<0.01	
7/18/2012	0.0074	
1/22/2013	0.0071	
7/16/2013	0.0075	
1/21/2014	0.0061	
6/25/2014	0.007	
1/14/2015	0.0063	
7/23/2015	0.0066	
1/26/2016	0.0058	
2/3/2017	0.0082	
8/8/2017	0.0058	
1/25/2018	0.0063	
6/20/2018	0.006	
1/24/2019		0.0065
6/25/2019		0.0092
9/10/2019		0.0082
3/18/2020		0.0069

Prediction Limit

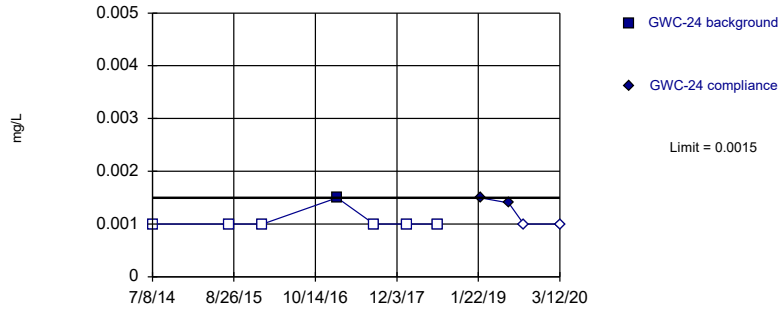
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	<0.001	
10/29/2011	<0.001	
12/13/2011	<0.001	
1/31/2012	<0.001	
7/18/2012	<0.001	
1/22/2013	<0.001	
7/23/2013	<0.001	
1/22/2014	<0.001	
7/1/2014	<0.001	
1/22/2015	<0.001	
7/29/2015	0.0011 (J)	
1/21/2016	<0.001	
2/3/2017	0.0016 (J)	
8/8/2017	<0.001	
1/25/2018	0.0014 (J)	
6/20/2018	<0.001	
1/25/2019		0.0012
6/26/2019		0.0019
9/12/2019		0.001
3/18/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

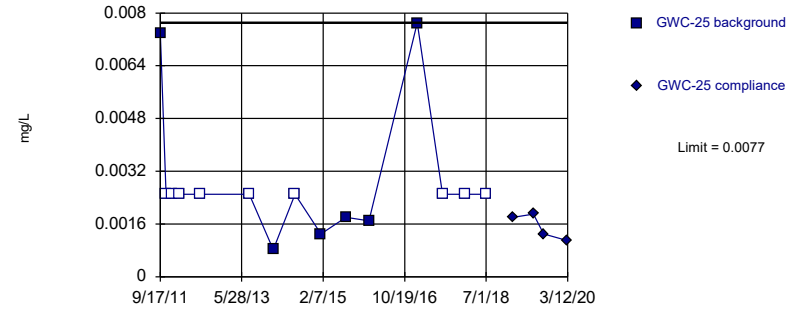


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

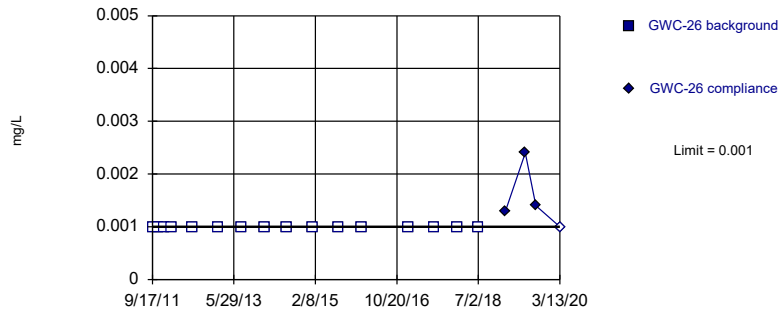


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

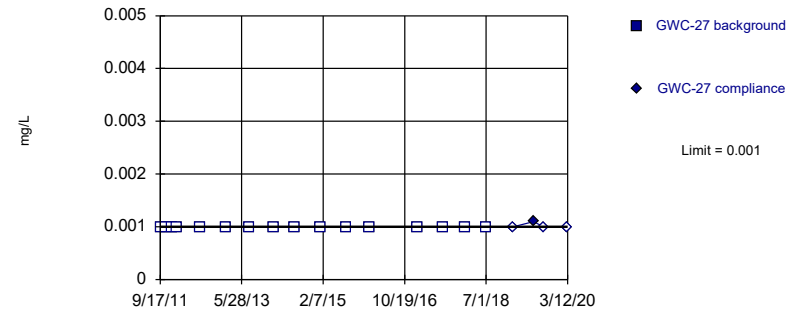


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	<0.001	
7/31/2015	<0.001	
1/20/2016	<0.001	
2/3/2017	0.0015 (J)	
8/8/2017	<0.001	
1/25/2018	<0.001	
6/27/2018	<0.001	
1/31/2019		0.0015
6/26/2019		0.0014
9/11/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	0.0074	
10/31/2011	<0.0025	
12/14/2011	<0.0025	
2/7/2012	<0.0025	
7/17/2012	<0.0025	
7/24/2013	<0.0025	
1/23/2014	0.00082 (J)	
7/8/2014	<0.0025	
1/21/2015	0.0013 (J)	
7/30/2015	0.0018 (J)	
1/21/2016	0.0017 (J)	
1/24/2017	0.0077	
8/3/2017	<0.0025	
1/25/2018	<0.0025	
6/27/2018	<0.0025	
1/24/2019		0.0018
6/25/2019		0.0019
9/11/2019		0.0013
3/12/2020		0.0011

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
2/7/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/31/2015	<0.001	
1/25/2016	<0.001	
1/19/2017	<0.001	
8/3/2017	<0.001	
1/22/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		0.0013
6/25/2019		0.0024
9/12/2019		0.0014
3/13/2020		<0.001

Prediction Limit

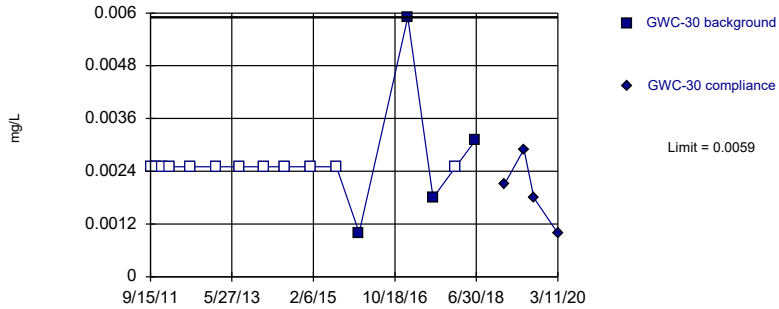
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	<0.001	
10/29/2011	<0.001	
12/14/2011	<0.001	
1/25/2012	<0.001	
7/17/2012	<0.001	
1/24/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/8/2014	<0.001	
1/21/2015	<0.001	
7/30/2015	<0.001	
1/22/2016	<0.001	
1/20/2017	<0.001	
8/3/2017	<0.001	
1/19/2018	<0.001	
6/27/2018	<0.001	
1/24/2019		<0.001
6/26/2019		0.0011
9/12/2019		<0.001
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

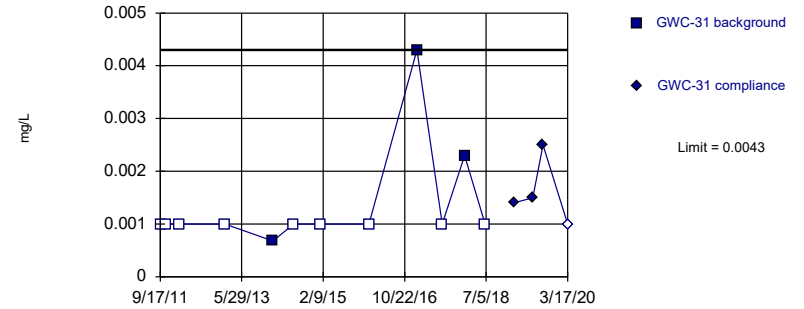


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

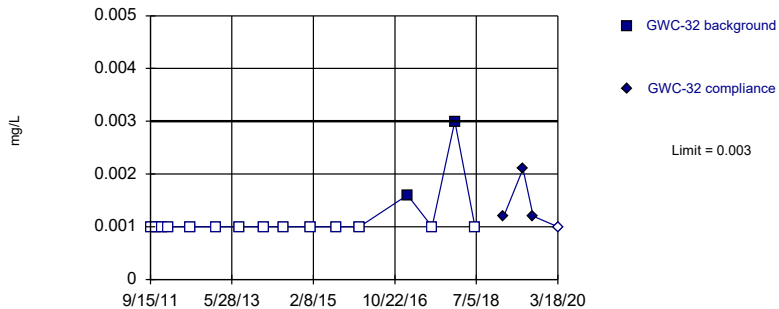


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

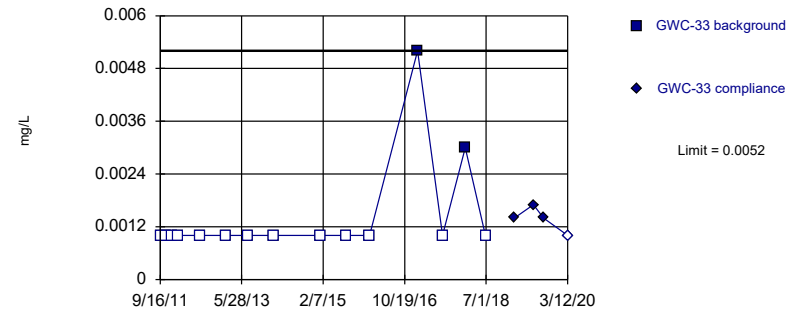


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.0025	
10/28/2011	<0.0025	
12/13/2011	<0.0025	
2/8/2012	<0.0025	
7/18/2012	<0.0025	
1/24/2013	<0.0025	
7/24/2013	<0.0025	
1/23/2014	<0.0025	
7/1/2014	<0.0025	
1/20/2015	<0.0025	
7/30/2015	<0.0025	
1/19/2016	0.001 (J)	
1/24/2017	0.0059	
8/4/2017	0.0018 (J)	
1/24/2018	<0.0025	
6/21/2018	0.0031	
1/30/2019		0.0021
6/27/2019		0.0029
9/10/2019		0.0018
3/11/2020		0.00099 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	<0.001	
10/31/2011	<0.001	
2/7/2012	<0.001	
1/23/2013	<0.001	
1/23/2014	0.00068 (J)	
7/1/2014	<0.001	
1/21/2015	<0.001	
1/25/2016	<0.001	
1/25/2017	0.0043	
8/4/2017	<0.001	
1/23/2018	0.0023 (J)	
6/27/2018	<0.001	
1/31/2019		0.0014
6/26/2019		0.0015
9/11/2019		0.0025
3/17/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	<0.001	
10/31/2011	<0.001	
12/13/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/24/2013	<0.001	
1/23/2014	<0.001	
7/1/2014	<0.001	
1/20/2015	<0.001	
7/30/2015	<0.001	
1/25/2016	<0.001	
1/26/2017	0.0016 (J)	
8/3/2017	<0.001	
1/23/2018	0.003	
6/26/2018	<0.001	
1/30/2019		0.0012
6/27/2019		0.0021
9/12/2019		0.0012
3/18/2020		<0.001

Prediction Limit

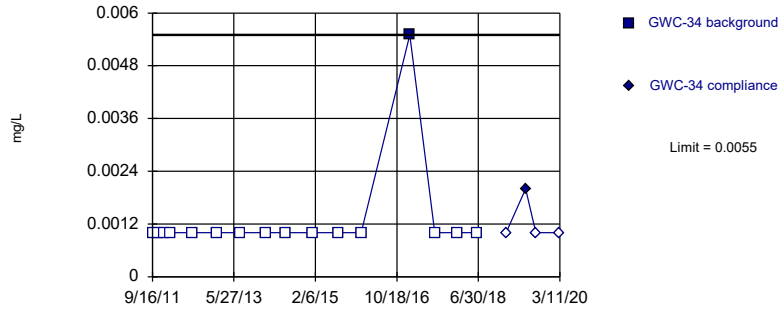
Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	<0.001	
10/30/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/17/2012	<0.001	
1/23/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
1/20/2015	<0.001	
7/29/2015	<0.001	
1/25/2016	<0.001	
1/25/2017	0.0052	
8/4/2017	<0.001	
1/23/2018	0.003	
6/26/2018	<0.001	
1/30/2019		0.0014
6/26/2019		0.0017
9/12/2019		0.0014
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

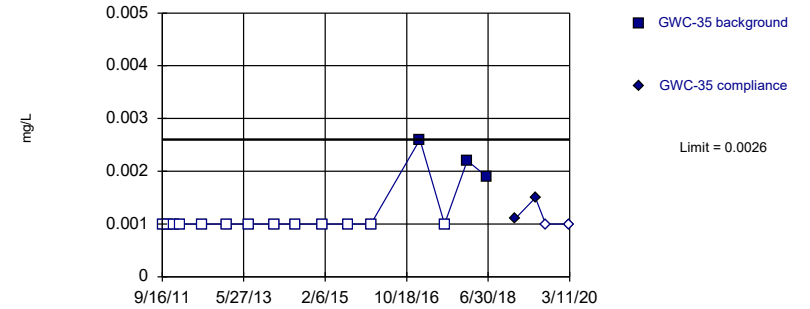


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

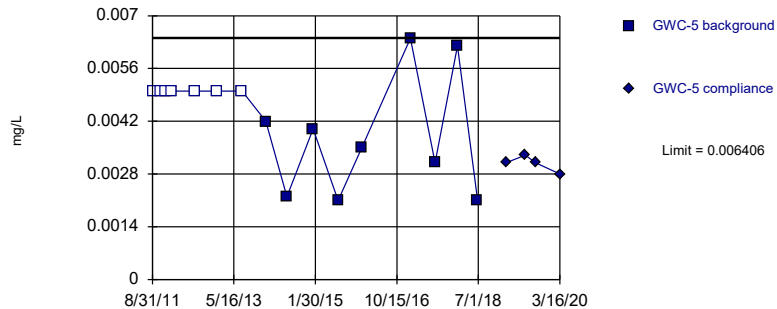


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

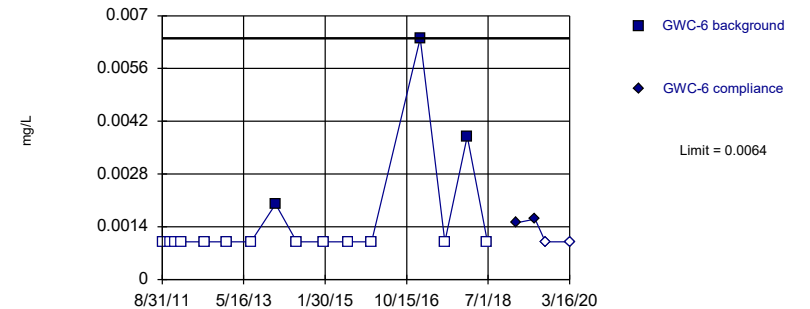


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003438, Std. Dev.=0.001338, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/17/2013	<0.001	
1/23/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/29/2015	<0.001	
1/21/2016	<0.001	
1/25/2017	0.0055	
8/3/2017	<0.001	
1/23/2018	<0.001	
6/20/2018	<0.001	
1/28/2019		<0.001
6/26/2019		0.002
9/11/2019		<0.001
3/11/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	<0.001	
10/31/2011	<0.001	
12/12/2011	<0.001	
2/1/2012	<0.001	
7/16/2012	<0.001	
1/22/2013	<0.001	
7/2/2013	<0.001	
1/21/2014	<0.001	
6/25/2014	<0.001	
1/14/2015	<0.001	
7/28/2015	<0.001	
1/21/2016	<0.001	
1/26/2017	0.0026	
8/3/2017	<0.001	
1/23/2018	0.0022 (J)	
6/19/2018	0.0019 (J)	
1/21/2019		0.0011
6/26/2019		0.0015
9/12/2019		<0.001
3/11/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.005	
10/27/2011	<0.005	
12/5/2011	<0.005	
1/25/2012	<0.005	
7/18/2012	<0.005	
1/9/2013	<0.005	
7/17/2013	<0.005	
1/15/2014	0.0042 (J)	
6/25/2014	0.0022 (J)	
1/13/2015	0.004 (J)	
7/24/2015	0.0021 (J)	
1/20/2016	0.0035 (J)	
1/26/2017	0.0064	
8/3/2017	0.0031	
1/23/2018	0.0062	
6/25/2018	0.0021 (J)	
1/30/2019		0.0031
6/26/2019		0.0033
9/12/2019		0.0031
3/16/2020		0.0028

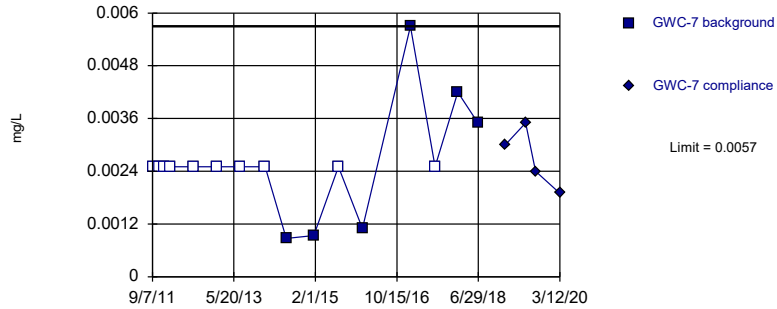
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/25/2012	<0.001	
7/24/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/15/2014	0.002 (J)	
6/25/2014	<0.001	
1/20/2015	<0.001	
7/24/2015	<0.001	
1/20/2016	<0.001	
1/26/2017	0.0064	
8/3/2017	<0.001	
1/23/2018	0.0038	
6/25/2018	<0.001	
1/30/2019		0.0015
6/26/2019		0.0016
9/12/2019		<0.001
3/16/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

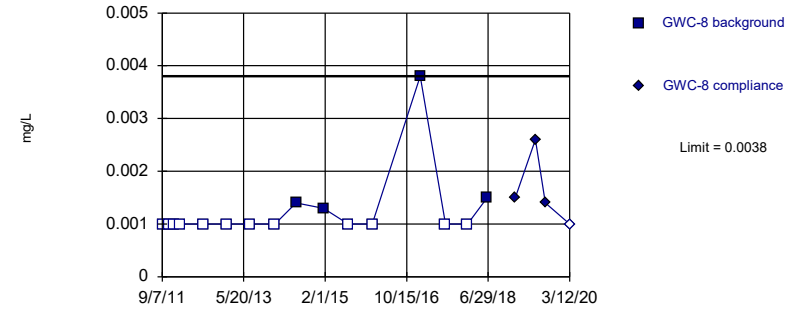


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

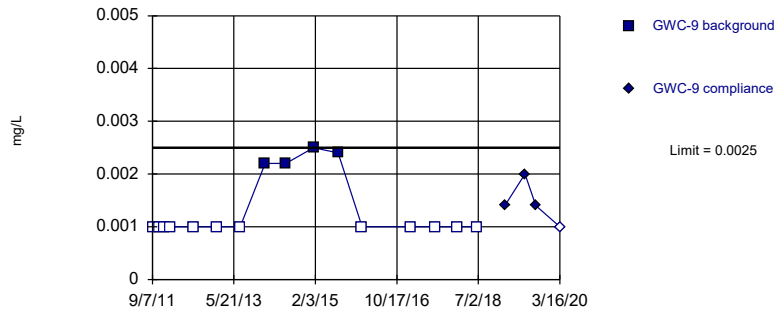


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

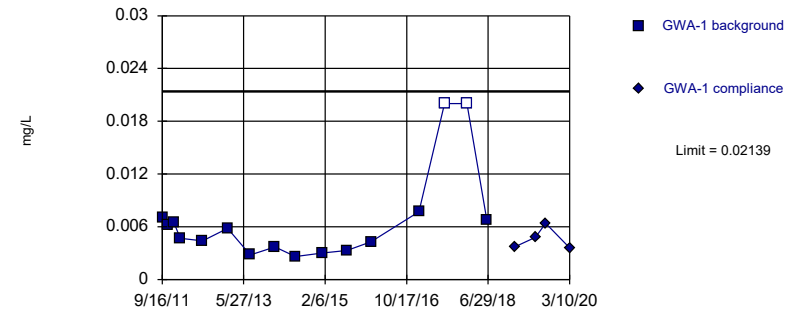


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Vanadium Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-5.193, Std. Dev.=0.6076, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.0025	
10/30/2011	<0.0025	
12/5/2011	<0.0025	
1/25/2012	<0.0025	
7/18/2012	<0.0025	
1/7/2013	<0.0025	
7/9/2013	<0.0025	
1/14/2014	<0.0025	
6/24/2014	0.00087 (J)	
1/20/2015	0.00094 (J)	
7/27/2015	<0.0025	
1/26/2016	0.0011 (J)	
1/26/2017	0.0057	
8/4/2017	<0.0025	
1/23/2018	0.0042	
6/25/2018	0.0035	
1/21/2019		0.003
6/25/2019		0.0035
9/10/2019		0.0024
3/12/2020		0.0019

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	<0.001	
10/30/2011	<0.001	
12/5/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/7/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	<0.001	
6/24/2014	0.0014 (J)	
1/20/2015	0.0013 (J)	
7/27/2015	<0.001	
1/26/2016	<0.001	
1/26/2017	0.0038	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	0.0015 (J)	
1/22/2019		0.0015
6/25/2019		0.0026
9/10/2019		0.0014
3/12/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
9/7/2011	<0.001	
10/30/2011	<0.001	
12/4/2011	<0.001	
1/19/2012	<0.001	
7/18/2012	<0.001	
1/8/2013	<0.001	
7/9/2013	<0.001	
1/14/2014	0.0022 (J)	
6/24/2014	0.0022 (J)	
1/20/2015	0.0025 (J)	
7/27/2015	0.0024 (J)	
1/26/2016	<0.001	
1/31/2017	<0.001	
8/7/2017	<0.001	
1/24/2018	<0.001	
6/21/2018	<0.001	
1/22/2019		0.0014
6/25/2019		0.002
9/16/2019		0.0014
3/16/2020		<0.001

Prediction Limit

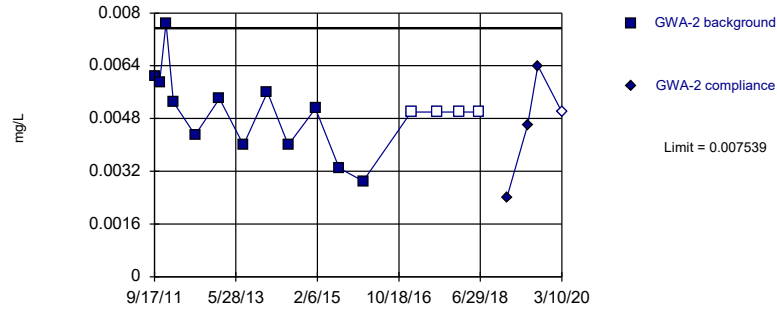
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
9/16/2011	0.0071	
10/27/2011	0.0062	
12/13/2011	0.0065	
1/31/2012	0.0047	
7/18/2012	0.0044	
1/24/2013	0.0058	
7/17/2013	0.0028	
1/21/2014	0.0037	
6/25/2014	0.0026	
1/14/2015	0.003	
7/21/2015	0.0033	
1/21/2016	0.0043	
1/19/2017	0.0077 (J)	
8/3/2017	<0.02	
1/19/2018	<0.02	
6/19/2018	0.0068 (J)	
1/17/2019		0.0037 (J)
6/24/2019		0.0048 (J)
9/9/2019		0.0064
3/10/2020		0.0036 (J)

Within Limit

Prediction Limit
Intrawell Parametric

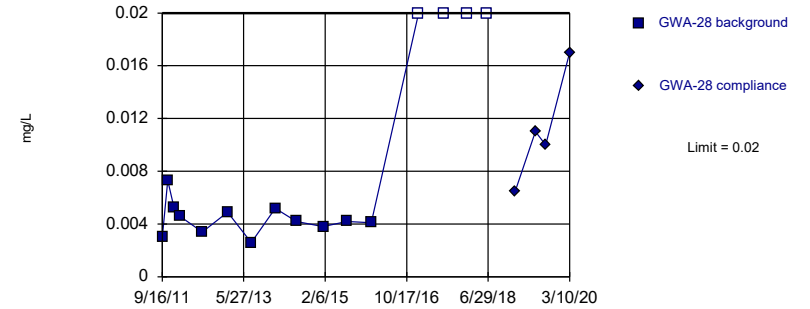


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004549, Std. Dev.=0.001348, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9524, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

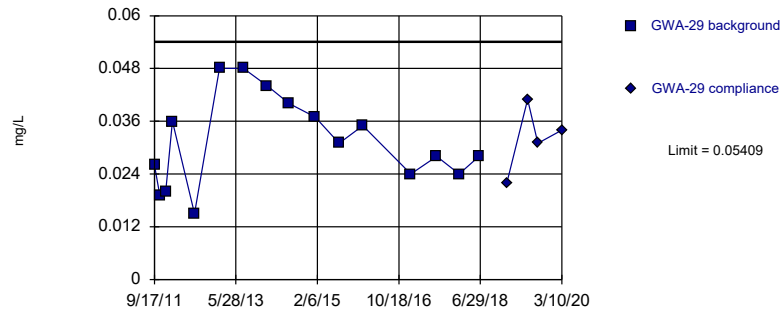


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

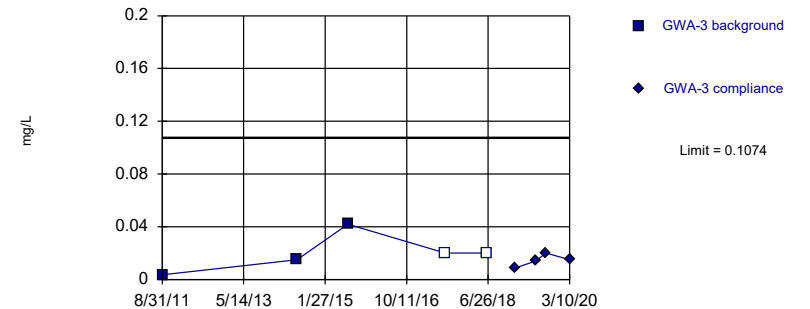


Background Data Summary: Mean=0.03144, Std. Dev.=0.01021, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01588, Std. Dev.=0.014, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9176, critical = 0.686. Kappa = 6.538 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
9/17/2011	0.0061	
10/27/2011	0.0059	
12/14/2011	0.0077	
2/7/2012	0.0053	
7/23/2012	0.0043	
1/23/2013	0.0054	
7/24/2013	0.004	
1/22/2014	0.0056	
7/1/2014	0.004	
1/22/2015	0.0051	
7/22/2015	0.0033	
1/20/2016	0.0029	
1/19/2017	<0.005	
8/2/2017	<0.005	
1/19/2018	<0.005	
6/19/2018	<0.005	
1/17/2019		0.0024 (J)
6/24/2019		0.0046 (J)
9/10/2019		0.0064
3/10/2020		<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
9/16/2011	0.003	
10/28/2011	0.0073	
12/12/2011	0.0053	
1/25/2012	0.0046	
7/16/2012	0.0034	
1/24/2013	0.0049	
7/23/2013	0.0026	
1/22/2014	0.0052	
7/1/2014	0.0042	
1/21/2015	0.0038	
7/21/2015	0.0042	
1/22/2016	0.0041	
1/17/2017	<0.02	
8/1/2017	<0.02	
1/19/2018	<0.02	
6/19/2018	<0.02	
1/21/2019		0.0065
6/25/2019		0.011
9/10/2019		0.01
3/10/2020		0.017

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
9/17/2011	0.026	
10/28/2011	0.019	
12/12/2011	0.02	
1/31/2012	0.036	
7/17/2012	0.015	
1/24/2013	0.048	
7/24/2013	0.048	
1/22/2014	0.044	
7/8/2014	0.04 (D)	
1/21/2015	0.037	
7/22/2015	0.031	
1/19/2016	0.035 (D)	
1/17/2017	0.024	
8/1/2017	0.028	
1/19/2018	0.024	
6/19/2018	0.028	
1/18/2019		0.022
6/25/2019		0.041
9/10/2019		0.031
3/10/2020		0.034

Prediction Limit

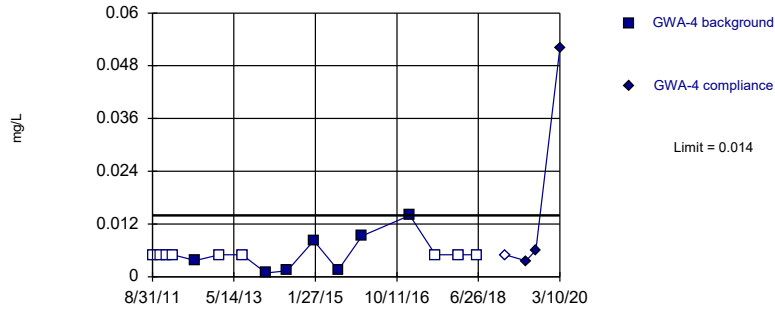
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
8/31/2011	0.0037	
6/25/2014	0.015	
7/21/2015	0.042	
8/1/2017	<0.02	
6/20/2018	<0.02	
1/18/2019		0.0088
6/25/2019		0.014
9/11/2019		0.02
3/10/2020		0.015

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

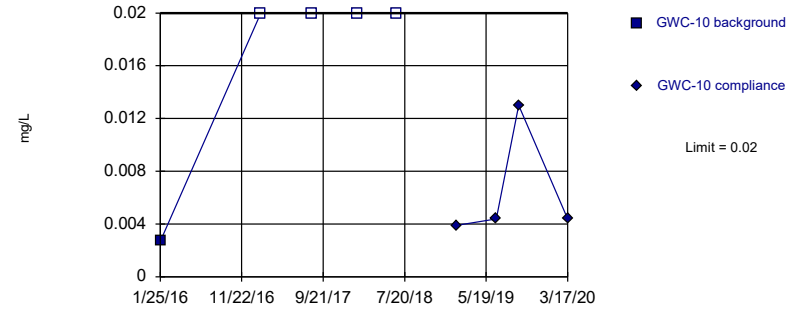


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

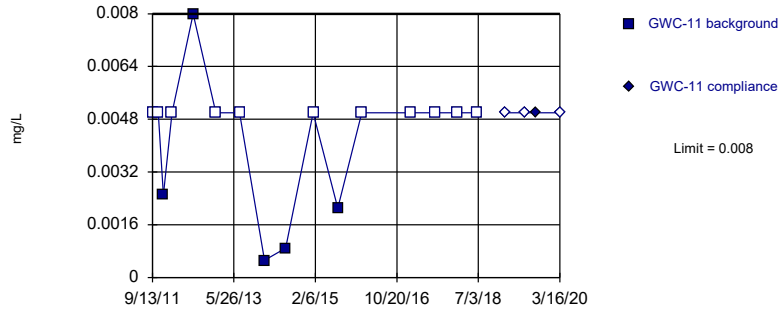


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

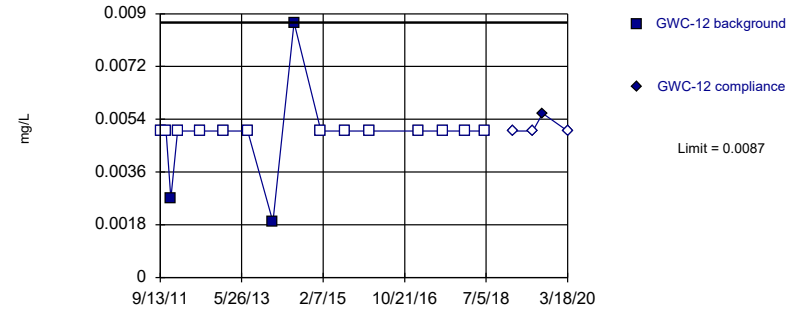


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
8/31/2011	<0.005	
10/27/2011	<0.005	
12/14/2011	<0.005	
2/1/2012	<0.005	
7/23/2012	0.0037	
1/23/2013	<0.005	
7/17/2013	<0.005	
1/15/2014	0.00085 (J)	
6/25/2014	0.0014 (J)	
1/14/2015	0.0082	
7/21/2015	0.0015 (J)	
1/20/2016	0.0093	
1/17/2017	0.014 (J)	
8/2/2017	<0.005	
1/22/2018	<0.005	
6/19/2018	<0.005	
1/17/2019		<0.005
6/24/2019		0.0036 (J)
9/10/2019		0.006
3/10/2020		0.052

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	0.0027	
2/1/2017	<0.02	
8/8/2017	<0.02	
1/25/2018	<0.02	
6/21/2018	<0.02	
1/31/2019		0.0039 (J)
6/26/2019		0.0044 (J)
9/17/2019		0.013
3/17/2020		0.0044 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	0.0025	
2/9/2012	<0.005	
7/18/2012	0.008	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/15/2014	0.00052 (J)	
6/25/2014	0.00089 (J)	
1/21/2015	<0.005	
7/28/2015	0.0021 (J)	
1/26/2016	<0.005	
1/31/2017	<0.005	
8/7/2017	<0.005	
1/24/2018	<0.005	
6/20/2018	<0.005	
1/24/2019		<0.005
6/26/2019		<0.005
9/16/2019		0.005
3/16/2020		<0.005

Prediction Limit

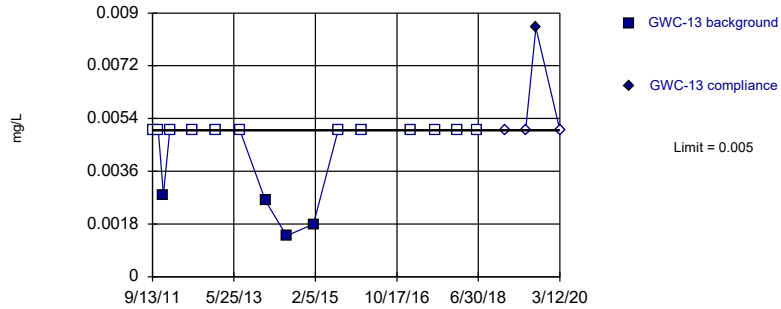
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	0.0027	
1/24/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/10/2013	<0.005	
1/21/2014	0.0019 (J)	
7/1/2014	0.0087	
1/21/2015	<0.005	
7/28/2015	<0.005	
1/26/2016	<0.005	
1/31/2017	<0.005	
8/7/2017	<0.005	
1/24/2018	<0.005	
6/26/2018	<0.005	
1/25/2019		<0.005
6/26/2019		<0.005
9/11/2019		0.0056
3/18/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

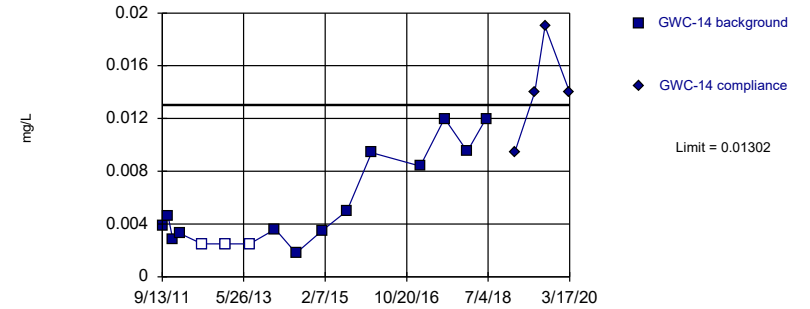


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

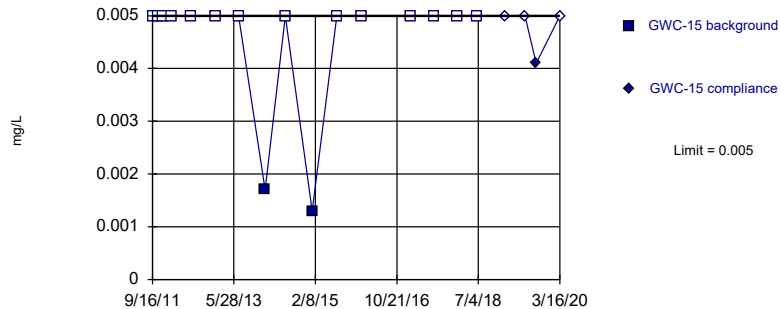


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0662, Std. Dev.=0.02159, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

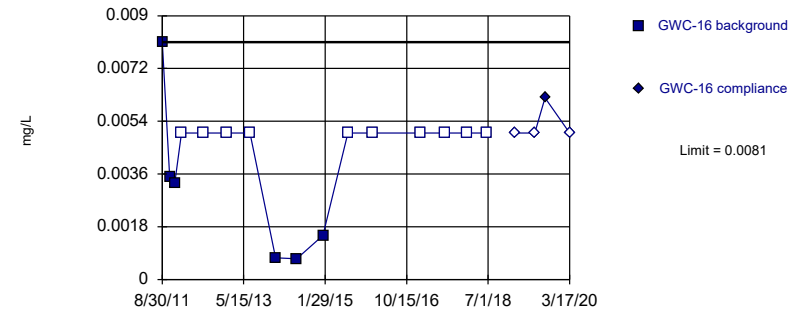


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
9/13/2011	<0.005	
10/28/2011	<0.005	
12/4/2011	0.0028	
1/24/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/10/2013	<0.005	
1/21/2014	0.0026	
7/1/2014	0.0014 (J)	
1/21/2015	0.0018 (J)	
7/28/2015	<0.005	
1/27/2016	<0.005	
1/31/2017	<0.005	
8/4/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/22/2019		<0.005
6/25/2019		<0.005
9/12/2019		0.0085
3/12/2020		<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
9/13/2011	0.0039	
10/27/2011	0.0046	
12/3/2011	0.0028	
1/24/2012	0.0033	
7/11/2012	<0.0025	
1/8/2013	<0.0025	
7/10/2013	<0.0025	
1/21/2014	0.0036	
7/1/2014	0.0018 (J)	
1/14/2015	0.0035	
7/22/2015	0.005	
1/27/2016	0.0094	
2/1/2017	0.0084 (J)	
8/7/2017	0.012 (J)	
1/25/2018	0.0095 (J)	
6/20/2018	0.012 (J)	
1/22/2019		0.0094
6/25/2019		0.014
9/12/2019		0.019
3/17/2020		0.014

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
9/16/2011	<0.005	
10/27/2011	<0.005	
12/3/2011	<0.005	
2/9/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/2/2013	<0.005	
1/21/2014	0.0017 (J)	
6/24/2014	<0.005	
1/14/2015	0.0013 (J)	
7/22/2015	<0.005	
1/27/2016	<0.005	
2/1/2017	<0.005	
8/4/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/22/2019		<0.005
6/25/2019		<0.005
9/17/2019		0.0041 (J)
3/16/2020		<0.005

Prediction Limit

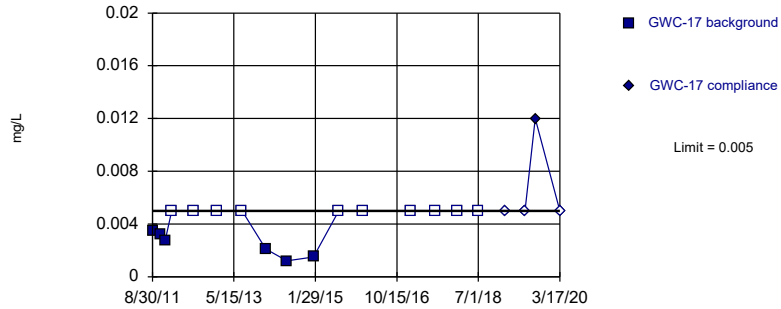
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
8/30/2011	0.0081	
10/26/2011	0.0035	
12/3/2011	0.0033	
1/25/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/2/2013	<0.005	
1/14/2014	0.00074 (J)	
6/25/2014	0.00071 (J)	
1/13/2015	0.0015 (J)	
7/22/2015	<0.005	
1/27/2016	<0.005	
2/1/2017	<0.005	
8/7/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/25/2019		<0.005
6/25/2019		<0.005
9/11/2019		0.0062
3/17/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

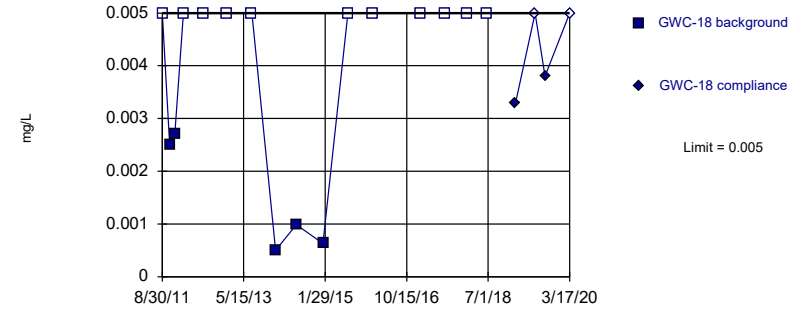


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

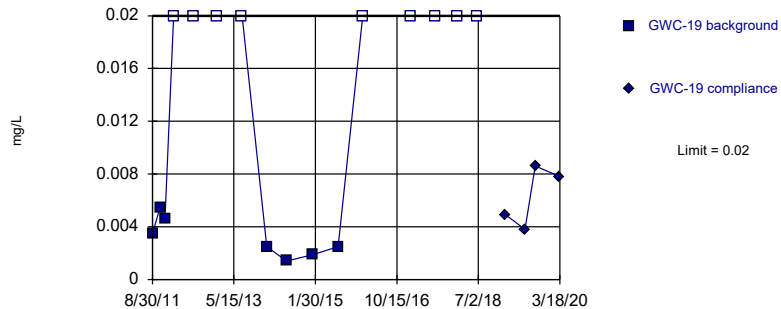


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

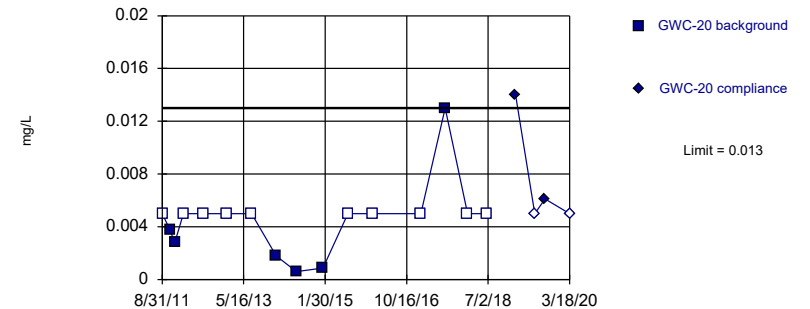


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
8/30/2011	0.0035	
10/26/2011	0.0032	
12/3/2011	0.0027	
1/25/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/16/2013	<0.005	
1/14/2014	0.0021 (J)	
6/25/2014	0.0012 (J)	
1/14/2015	0.0015 (J)	
7/28/2015	<0.005	
1/27/2016	<0.005	
2/1/2017	<0.005	
8/7/2017	<0.005	
1/25/2018	<0.005	
6/26/2018	<0.005	
1/24/2019		<0.005
6/25/2019		<0.005
9/11/2019		0.012
3/17/2020		<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
8/30/2011	<0.005	
10/26/2011	0.0025	
12/3/2011	0.0027	
2/9/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/16/2013	<0.005	
1/14/2014	0.0005 (J)	
6/24/2014	0.00099 (J)	
1/13/2015	0.00063 (J)	
7/23/2015	<0.005	
1/27/2016	<0.005	
2/1/2017	<0.005	
8/7/2017	<0.005	
1/25/2018	<0.005	
6/21/2018	<0.005	
1/28/2019		0.0033 (J)
6/27/2019		<0.005
9/11/2019		0.0038 (J)
3/17/2020		<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
8/30/2011	0.0035	
10/26/2011	0.0054	
12/3/2011	0.0046	
2/8/2012	<0.02	
7/11/2012	<0.02	
1/8/2013	<0.02	
7/16/2013	<0.02	
1/21/2014	0.0025	
6/24/2014	0.0014 (J)	
1/13/2015	0.0019 (J)	
7/23/2015	0.0025	
1/27/2016	<0.02	
2/2/2017	<0.02	
8/7/2017	<0.02	
1/25/2018	<0.02	
6/21/2018	<0.02	
1/28/2019		0.0049 (J)
6/26/2019		0.0038 (J)
9/12/2019		0.0086
3/18/2020		0.0078

Prediction Limit

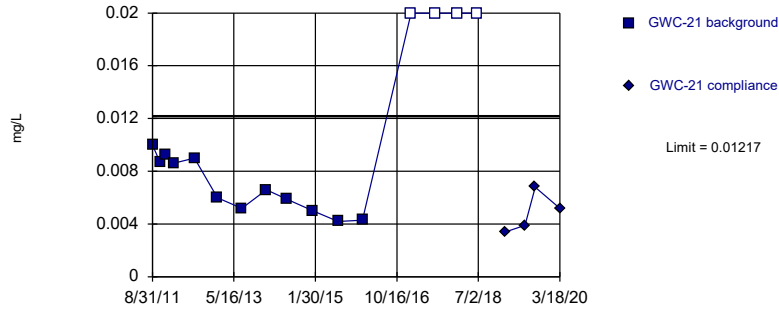
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
8/31/2011	<0.005	
10/27/2011	0.0038	
12/4/2011	0.0028	
2/8/2012	<0.005	
7/11/2012	<0.005	
1/8/2013	<0.005	
7/16/2013	<0.005	
1/21/2014	0.0018 (J)	
6/24/2014	0.0006 (J)	
1/13/2015	0.00086 (J)	
7/23/2015	<0.005	
1/27/2016	<0.005	
2/2/2017	<0.005	
8/7/2017	0.013 (J)	
1/26/2018	<0.005	
6/21/2018	<0.005	
1/28/2019		0.014
6/25/2019		<0.005
9/11/2019		0.0061
3/18/2020		<0.005

Within Limit

Prediction Limit
Intrawell Parametric

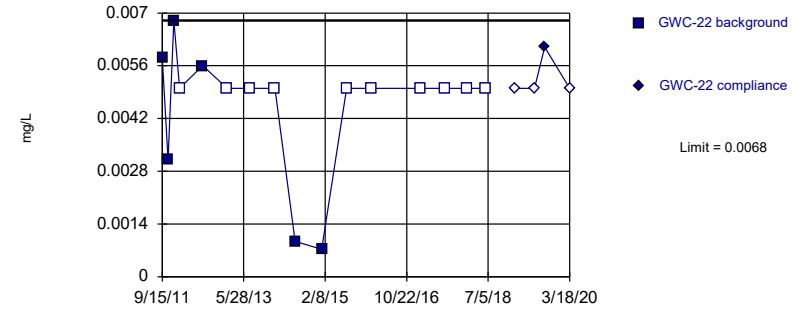


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1885, Std. Dev.=0.01871, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8467, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

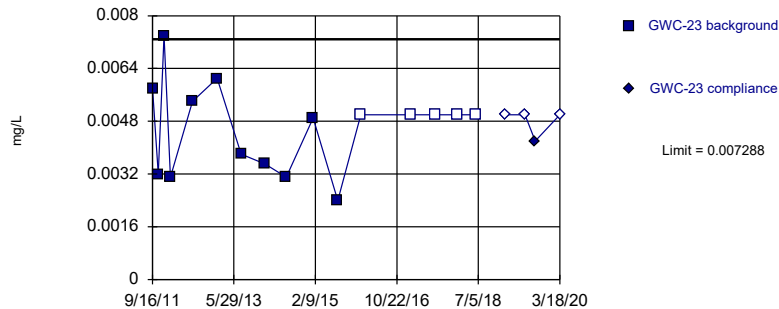


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

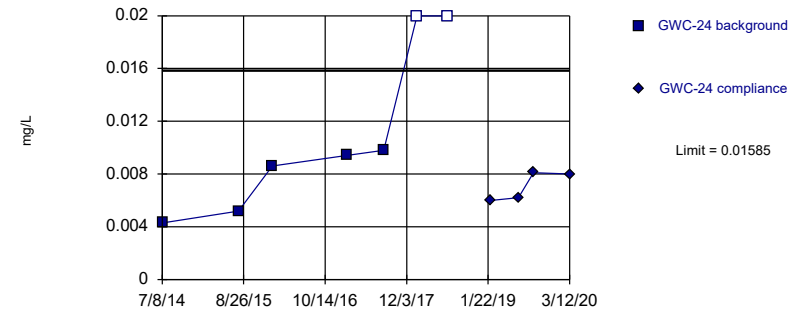


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00404, Std. Dev.=0.001464, n=16, 31.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00746, Std. Dev.=0.002264, n=7, 28.57% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8331, critical = 0.73. Kappa = 3.706 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
8/31/2011	0.01	
10/27/2011	0.0087	
12/4/2011	0.0093	
2/8/2012	0.0086	
7/17/2012	0.009	
1/9/2013	0.006	
7/16/2013	0.0052	
1/21/2014	0.0066	
6/24/2014	0.0059	
1/13/2015	0.005	
7/23/2015	0.0042	
1/26/2016	0.0043	
2/2/2017	<0.02	
8/7/2017	<0.02	
1/26/2018	<0.02	
6/20/2018	<0.02	
1/24/2019		0.0034 (J)
6/25/2019		0.0039 (J)
9/11/2019		0.0068
3/18/2020		0.0052

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
9/15/2011	0.0058	
10/29/2011	0.0031	
12/13/2011	0.0068	
1/25/2012	<0.005	
7/18/2012	0.0056	
1/22/2013	<0.005	
7/16/2013	<0.005	
1/21/2014	<0.005	
6/25/2014	0.00094 (J)	
1/14/2015	0.00073 (J)	
7/23/2015	<0.005	
1/26/2016	<0.005	
2/3/2017	<0.005	
8/8/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/24/2019		<0.005
6/25/2019		<0.005
9/10/2019		0.0061
3/18/2020		<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
9/16/2011	0.0058	
10/29/2011	0.0032	
12/13/2011	0.0074	
1/31/2012	0.0031	
7/18/2012	0.0054	
1/22/2013	0.0061	
7/23/2013	0.0038	
1/22/2014	0.0035	
7/1/2014	0.0031	
1/22/2015	0.0049	
7/29/2015	0.0024 (J)	
1/21/2016	<0.005	
2/3/2017	<0.005	
8/8/2017	<0.005	
1/25/2018	<0.005	
6/20/2018	<0.005	
1/25/2019		<0.005
6/26/2019		<0.005
9/12/2019		0.0042 (J)
3/18/2020		<0.005

Prediction Limit

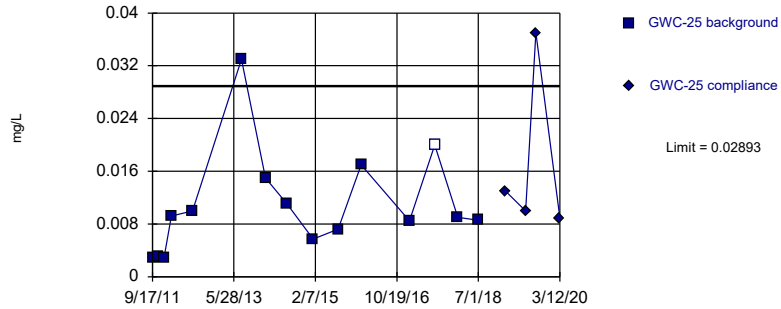
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
7/8/2014	0.0043	
7/31/2015	0.0052	
1/20/2016	0.0086	
2/3/2017	0.0094 (J)	
8/8/2017	0.0098 (J)	
1/25/2018	<0.02	
6/27/2018	<0.02	
1/31/2019		0.006
6/26/2019		0.0062
9/11/2019		0.0081
3/12/2020		0.008

Within Limit

Prediction Limit
Intrawell Parametric

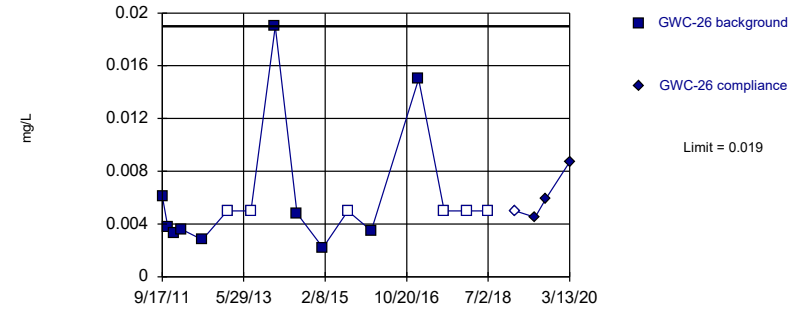


Background Data Summary: Mean=0.01086, Std. Dev.=0.007912, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8392, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

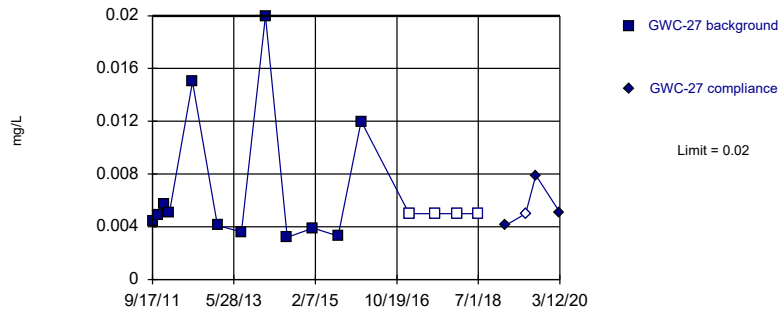


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

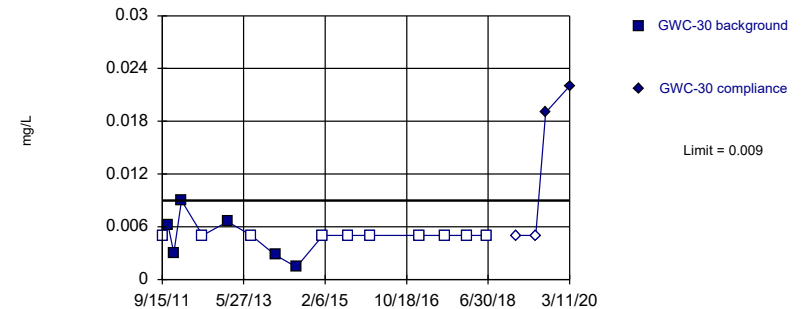


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:38 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 16 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
9/17/2011	0.0028	
10/31/2011	0.003	
12/14/2011	0.0029	
2/7/2012	0.0092	
7/17/2012	0.01	
7/24/2013	0.033	
1/23/2014	0.015	
7/8/2014	0.011	
1/21/2015	0.0057	
7/30/2015	0.0072	
1/21/2016	0.017	
1/24/2017	0.0085 (J)	
8/3/2017	<0.02	
1/25/2018	0.009 (J)	
6/27/2018	0.0086 (J)	
1/24/2019		0.013
6/25/2019		0.01
9/11/2019		0.037
3/12/2020		0.0089

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
9/17/2011	0.0061	
10/29/2011	0.0038	
12/14/2011	0.0033	
2/7/2012	0.0036	
7/17/2012	0.0028	
1/24/2013	<0.005	
7/24/2013	<0.005	
1/23/2014	0.019	
7/8/2014	0.0048	
1/21/2015	0.0022 (J)	
7/31/2015	<0.005	
1/25/2016	0.0035	
1/19/2017	0.015 (J)	
8/3/2017	<0.005	
1/22/2018	<0.005	
6/27/2018	<0.005	
1/24/2019		<0.005
6/25/2019		0.0045 (J)
9/12/2019		0.0059
3/13/2020		0.0087

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
9/17/2011	0.0044	
10/29/2011	0.0049	
12/14/2011	0.0057	
1/25/2012	0.0051	
7/17/2012	0.015	
1/24/2013	0.0041	
7/24/2013	0.0036	
1/23/2014	0.02	
7/8/2014	0.0032	
1/21/2015	0.0039	
7/30/2015	0.0033	
1/22/2016	0.012	
1/20/2017	<0.005	
8/3/2017	<0.005	
1/19/2018	<0.005	
6/27/2018	<0.005	
1/24/2019		0.0041 (J)
6/26/2019		<0.005
9/12/2019		0.0079
3/12/2020		0.0051

Prediction Limit

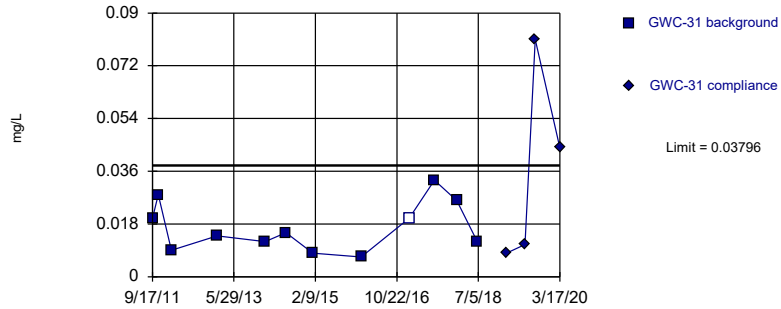
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
9/15/2011	<0.005	
10/28/2011	0.0062	
12/13/2011	0.003	
2/8/2012	0.009	
7/18/2012	<0.005	
1/24/2013	0.0066	
7/24/2013	<0.005	
1/23/2014	0.0028	
7/1/2014	0.0014 (J)	
1/20/2015	<0.005	
7/30/2015	<0.005	
1/19/2016	<0.005	
1/24/2017	<0.005	
8/4/2017	<0.005	
1/24/2018	<0.005	
6/21/2018	<0.005	
1/30/2019		<0.005
6/27/2019		<0.005
9/10/2019		0.019
3/11/2020		0.022

Exceeds Limit

Prediction Limit
Intrawell Parametric

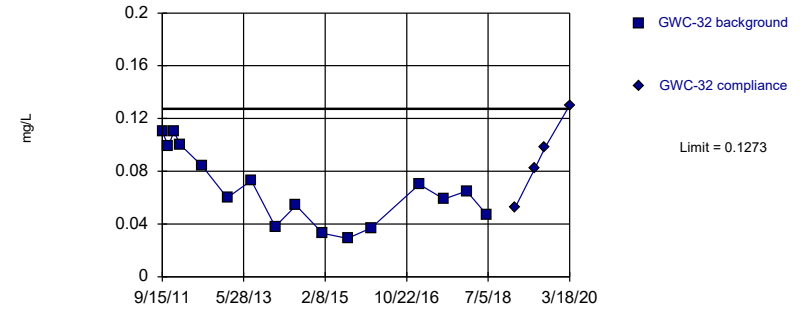


Background Data Summary: Mean=0.01699, Std. Dev.=0.008457, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.805. Kappa = 2.48 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

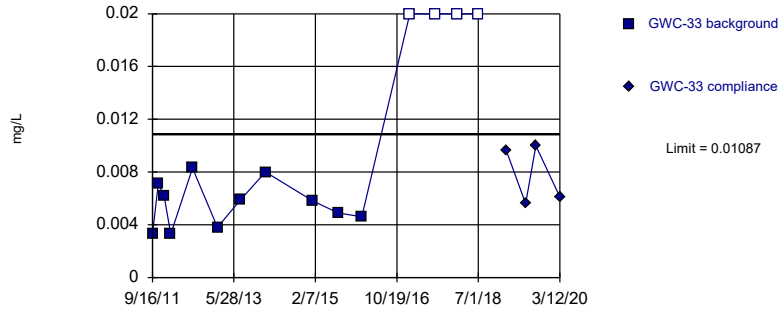


Background Data Summary: Mean=0.06675, Std. Dev.=0.02729, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9315, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

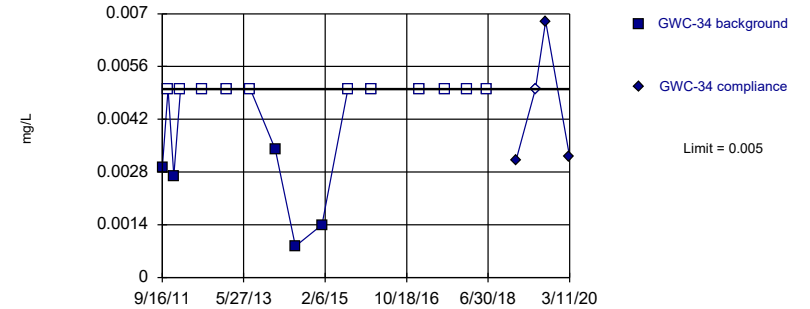


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.239, Std. Dev.=0.3143, n=15, 26.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8617, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
9/17/2011	0.02	
10/31/2011	0.028	
2/7/2012	0.0091	
1/23/2013	0.014	
1/23/2014	0.012	
7/1/2014	0.015	
1/21/2015	0.0081	
1/25/2016	0.0067	
1/25/2017	<0.02	
8/4/2017	0.033	
1/23/2018	0.026	
6/27/2018	0.012 (J)	
1/31/2019		0.008
6/26/2019		0.011
9/11/2019		0.081
3/17/2020		0.044

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
9/15/2011	0.11	
10/31/2011	0.099	
12/13/2011	0.11	
2/1/2012	0.1	
7/17/2012	0.084	
1/23/2013	0.06	
7/24/2013	0.073	
1/23/2014	0.038	
7/1/2014	0.054	
1/20/2015	0.033	
7/30/2015	0.029	
1/25/2016	0.037	
1/26/2017	0.07	
8/3/2017	0.059	
1/23/2018	0.065	
6/26/2018	0.047	
1/30/2019		0.053
6/27/2019		0.082
9/12/2019		0.098
3/18/2020		0.13

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
9/16/2011	0.0033	
10/30/2011	0.0071	
12/13/2011	0.0062	
2/1/2012	0.0033	
7/17/2012	0.0083	
1/23/2013	0.0038	
7/17/2013	0.0059	
1/23/2014	0.008	
1/20/2015	0.0058	
7/29/2015	0.0049	
1/25/2016	0.0046	
1/25/2017	<0.02	
8/4/2017	<0.02	
1/23/2018	<0.02	
6/26/2018	<0.02	
1/30/2019		0.0096
6/26/2019		0.0056
9/12/2019		0.01
3/12/2020		0.0061

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

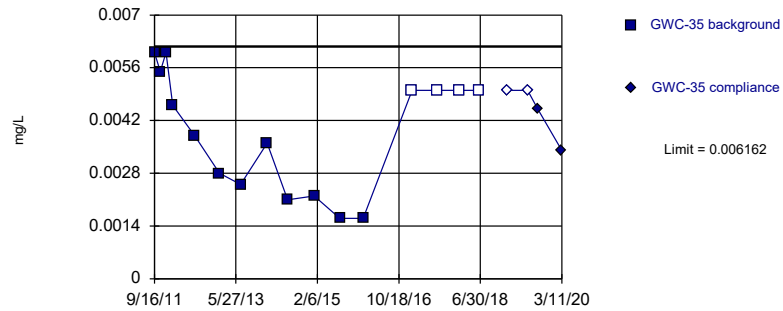
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
9/16/2011	0.0029	
10/31/2011	<0.005	
12/12/2011	0.0027	
2/1/2012	<0.005	
7/16/2012	<0.005	
1/22/2013	<0.005	
7/17/2013	<0.005	
1/23/2014	0.0034	
6/25/2014	0.00083 (J)	
1/14/2015	0.0014 (J)	
7/29/2015	<0.005	
1/21/2016	<0.005	
1/25/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/20/2018	<0.005	
1/28/2019		0.0031 (J)
6/26/2019		<0.005
9/11/2019		0.0068
3/11/2020		0.0032 (J)

Sanitas™ v.9.6.25 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Parametric



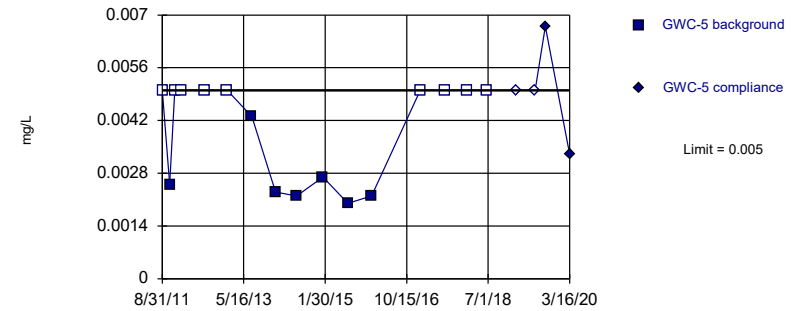
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003142, Std. Dev.=0.001361, n=16, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9024, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.25 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



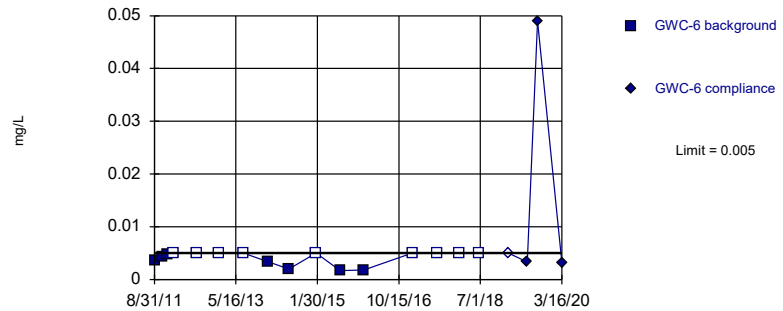
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.25 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



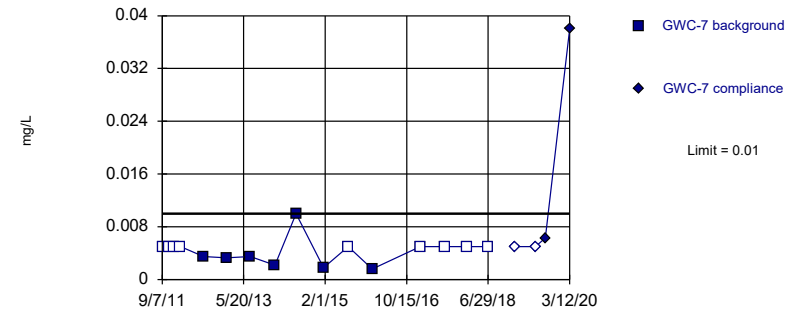
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sanitas™ v.9.6.25 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

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 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.002051. Individual comparison alpha = 0.001026 (1 of 3).

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
9/16/2011	0.006	
10/31/2011	0.0055	
12/12/2011	0.006	
2/1/2012	0.0046	
7/16/2012	0.0038	
1/22/2013	0.0028	
7/2/2013	0.0025	
1/21/2014	0.0036	
6/25/2014	0.0021 (J)	
1/14/2015	0.0022 (J)	
7/28/2015	0.0016 (J)	
1/21/2016	0.0016 (J)	
1/26/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/19/2018	<0.005	
1/21/2019		<0.005
6/26/2019		<0.005
9/12/2019		0.0045 (J)
3/11/2020		0.0034 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
8/31/2011	<0.005	
10/27/2011	0.0025	
12/5/2011	<0.005	
1/25/2012	<0.005	
7/18/2012	<0.005	
1/9/2013	<0.005	
7/17/2013	0.0043	
1/15/2014	0.0023 (J)	
6/25/2014	0.0022 (J)	
1/13/2015	0.0027	
7/24/2015	0.002 (J)	
1/20/2016	0.0022 (J)	
1/26/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/25/2018	<0.005	
1/30/2019		<0.005
6/26/2019		<0.005
9/12/2019		0.0067
3/16/2020		0.0033 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
8/31/2011	0.0037	
10/30/2011	0.0043	
12/5/2011	0.0047	
1/25/2012	<0.005	
7/24/2012	<0.005	
1/8/2013	<0.005	
7/9/2013	<0.005	
1/15/2014	0.0034	
6/25/2014	0.002 (J)	
1/20/2015	<0.005	
7/24/2015	0.0017 (J)	
1/20/2016	0.0018 (J)	
1/26/2017	<0.005	
8/3/2017	<0.005	
1/23/2018	<0.005	
6/25/2018	<0.005	
1/30/2019		<0.005
6/26/2019		0.0033 (J)
9/12/2019		0.049
3/16/2020		0.0032 (J)

Prediction Limit

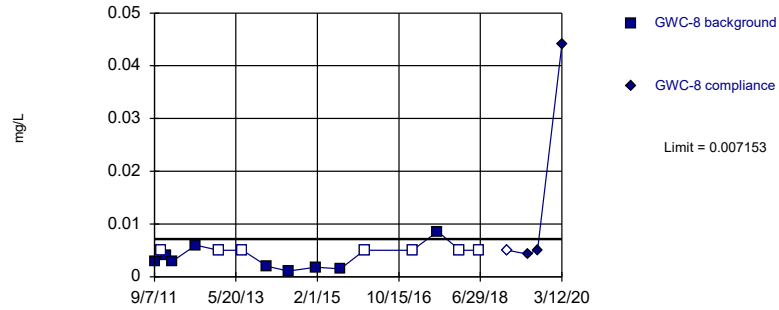
Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
9/7/2011	<0.005	
10/30/2011	<0.005	
12/5/2011	<0.005	
1/25/2012	<0.005	
7/18/2012	0.0035	
1/7/2013	0.0033	
7/9/2013	0.0035	
1/14/2014	0.0022 (J)	
6/24/2014	0.01	
1/20/2015	0.0018 (J)	
7/27/2015	<0.005	
1/26/2016	0.0016 (J)	
1/26/2017	<0.005	
8/4/2017	<0.005	
1/23/2018	<0.005	
6/25/2018	<0.005	
1/21/2019		<0.005
6/25/2019		<0.005
9/10/2019		0.0063
3/12/2020		0.038

Exceeds Limit

Prediction Limit Intrawell Parametric

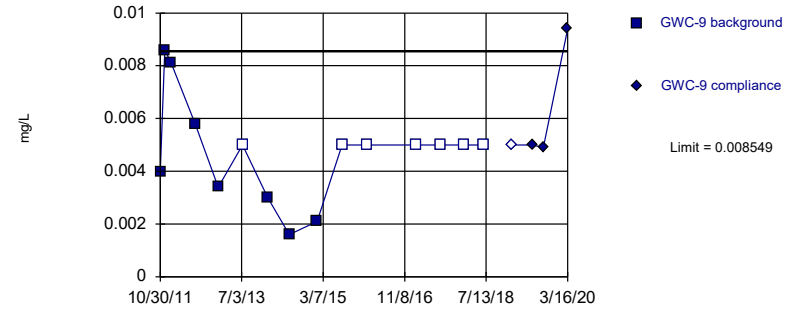


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002775, Std. Dev.=0.001974, n=16, 43.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9044, critical = 0.844. Kappa = 2.218 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003756, Std. Dev.=0.002099, n=15, 46.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9045, critical = 0.835. Kappa = 2.284 (c=16, w=29, 1 of 3, event alpha = 0.05132). Report alpha = 0.0001135.

Constituent: Zinc Analysis Run 5/20/2020 1:39 PM View: State Parameters
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
9/7/2011	0.0029	
10/30/2011	<0.005	
12/5/2011	0.004	
1/19/2012	0.0029	
7/18/2012	0.006	
1/7/2013	<0.005	
7/9/2013	<0.005	
1/14/2014	0.002 (J)	
6/24/2014	0.0011 (J)	
1/20/2015	0.0018 (J)	
7/27/2015	0.0015 (J)	
1/26/2016	<0.005	
1/26/2017	<0.005	
8/7/2017	0.0086 (J)	
1/24/2018	<0.005	
6/21/2018	<0.005	
1/22/2019		<0.005
6/25/2019		0.0043 (J)
9/10/2019		0.0051
3/12/2020		0.044

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/20/2020 1:42 PM View: State Parameters

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
10/30/2011	0.004	
12/4/2011	0.0086	
1/19/2012	0.0081	
7/18/2012	0.0058	
1/8/2013	0.0034	
7/9/2013	<0.005	
1/14/2014	0.003	
6/24/2014	0.0016 (J)	
1/20/2015	0.0021 (J)	
7/27/2015	<0.005	
1/26/2016	<0.005	
1/31/2017	<0.005	
8/7/2017	<0.005	
1/24/2018	<0.005	
6/21/2018	<0.005	
1/22/2019		<0.005
6/25/2019		0.005
9/16/2019		0.0049 (J)
3/16/2020		0.0094

FIGURE E.

State Parameters Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:50 PM

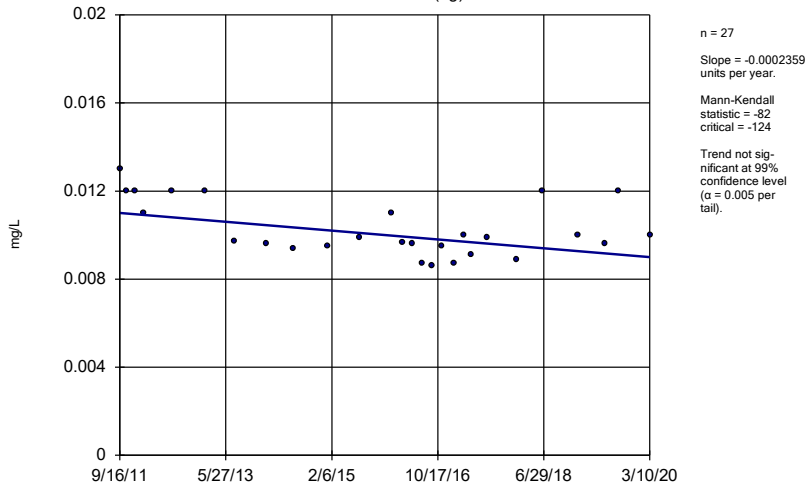
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-4 (bg)	0.007967	164	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	0.02209	189	98	Yes	23	4.348	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-18	0.0007492	146	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-19	0.007778	162	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.002917	181	124	Yes	27	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	0	-128	-124	Yes	27	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-14	0.01562	137	124	Yes	27	11.11	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-29 (bg)	-0.001039	-98	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002747	-99	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWC-14	0.001843	148	87	Yes	21	33.33	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-14	0.001331	114	81	Yes	20	15	n/a	n/a	0.01	NP

State Parameters Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/20/2020, 1:50 PM

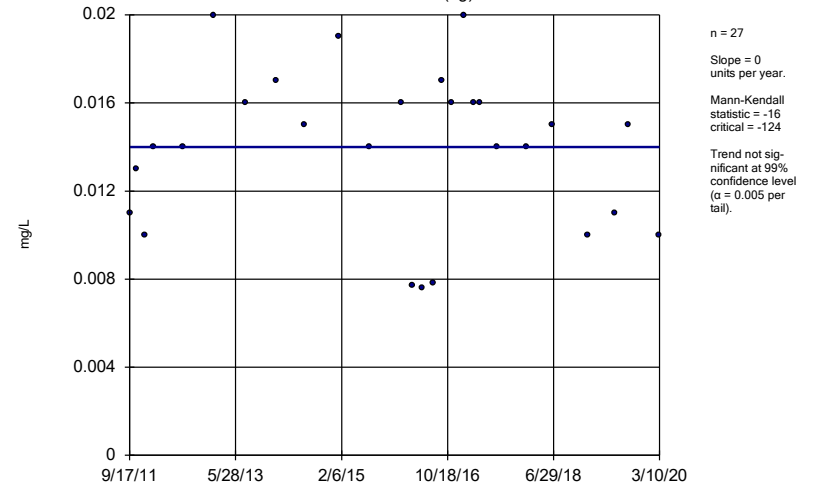
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.0002359	-82	-124	No	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2 (bg)	0	-16	-124	No	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-28 (bg)	0	4	124	No	27	37.04	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-29 (bg)	-0.00004576	-30	-111	No	25	16	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3 (bg)	0.002094	14	43	No	13	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.007967	164	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-14	0.02209	189	98	Yes	23	4.348	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-18	0.0007492	146	124	Yes	27	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-19	0.007778	162	124	Yes	27	3.704	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-21	0.002917	181	124	Yes	27	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1 (bg)	0	-110	-124	No	27	77.78	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	0	-128	-124	Yes	27	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-28 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-29 (bg)	0	-43	-111	No	25	92	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3 (bg)	-0.00006222	-25	-43	No	13	46.15	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	0.00032	101	124	No	27	7.407	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-14	0.01562	137	124	Yes	27	11.11	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-2 (bg)	0	-27	-81	No	20	80	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-28 (bg)	0	5	81	No	20	95	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-29 (bg)	-0.001039	-98	-81	Yes	20	15	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-3 (bg)	0	8	25	No	9	55.56	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-4 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-2 (bg)	0	-24	-124	No	27	96.3	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-28 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-29 (bg)	0	-43	-111	No	25	92	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3 (bg)	0	-5	-43	No	13	76.92	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-4 (bg)	0	0	124	No	27	100	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-1 (bg)	0	-64	-81	No	20	80	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-2 (bg)	-0.0000376	-67	-81	No	20	55	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-28 (bg)	0	-61	-81	No	20	75	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-29 (bg)	-0.0002747	-99	-81	Yes	20	15	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-3 (bg)	-0.0002631	-19	-25	No	9	33.33	n/a	n/a	0.01	NP
Nickel (mg/L)	GWA-4 (bg)	0	-67	-74	No	19	63.16	n/a	n/a	0.01	NP
Nickel (mg/L)	GWC-14	0.001843	148	87	Yes	21	33.33	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1 (bg)	-0.0000146	-4	-81	No	20	10	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	-0.0001346	-57	-81	No	20	25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-28 (bg)	0.0008004	69	81	No	20	20	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-29 (bg)	0	-2	-81	No	20	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3 (bg)	2.9e-10	2	25	No	9	22.22	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	0	35	81	No	20	50	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-14	0.001331	114	81	Yes	20	15	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-30	0	24	81	No	20	60	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-31	0.000782	12	58	No	16	6.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-32	-0.003265	-33	-81	No	20	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-7	0	38	81	No	20	55	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-8	0.0001408	47	81	No	20	40	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-9	0	3	74	No	19	42.11	n/a	n/a	0.01	NP

Sen's Slope Estimator
GWA-1 (bg)



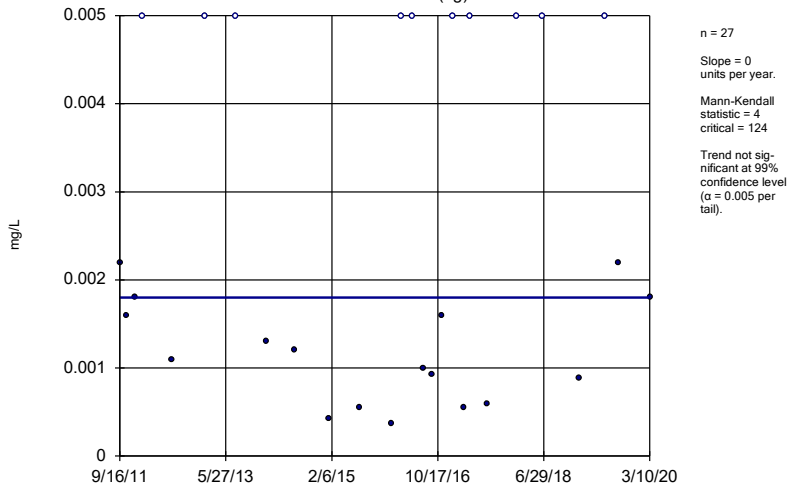
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-2 (bg)



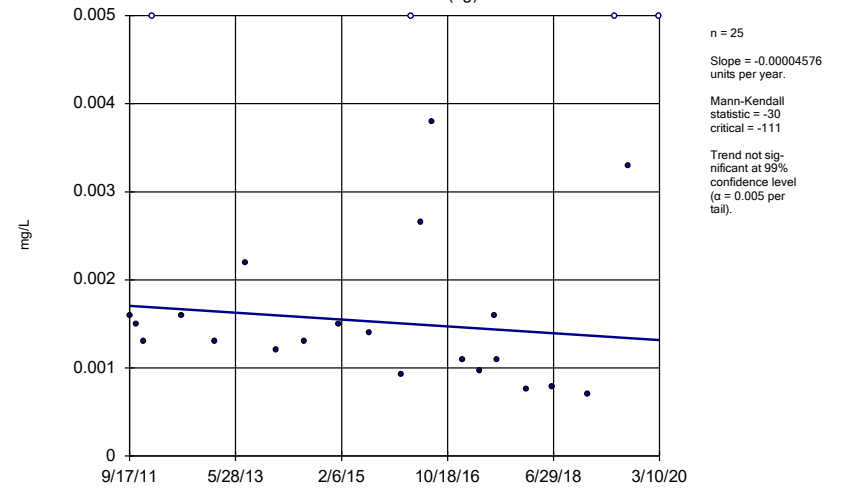
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-28 (bg)



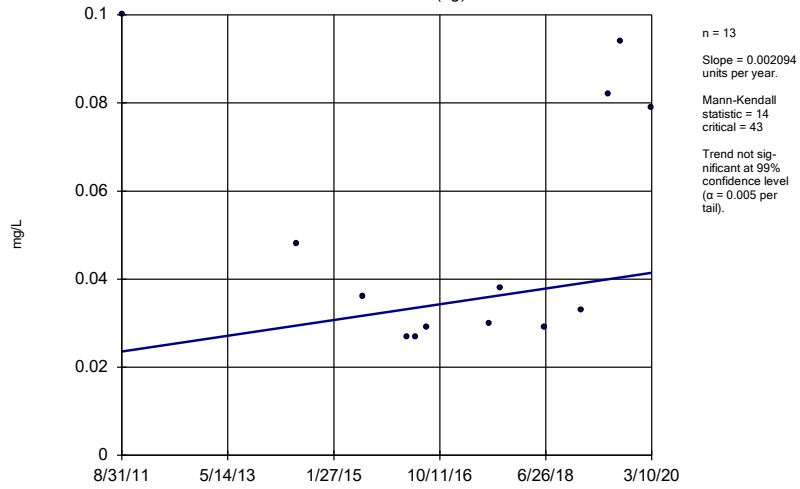
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-29 (bg)



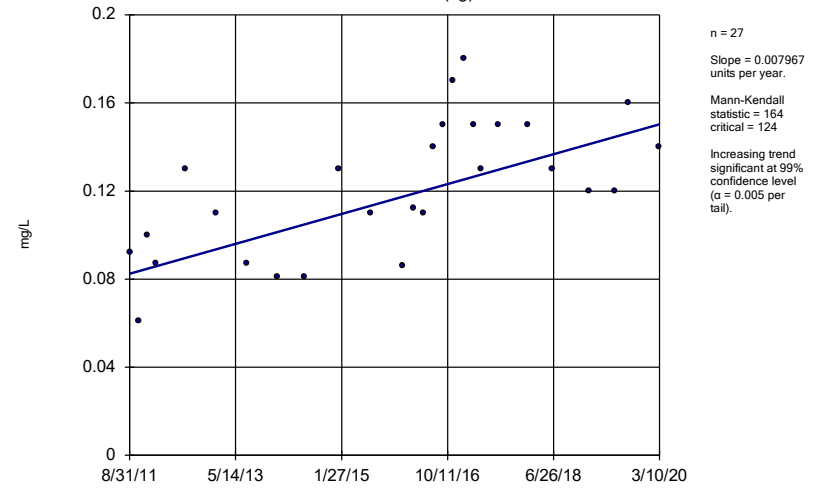
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-3 (bg)



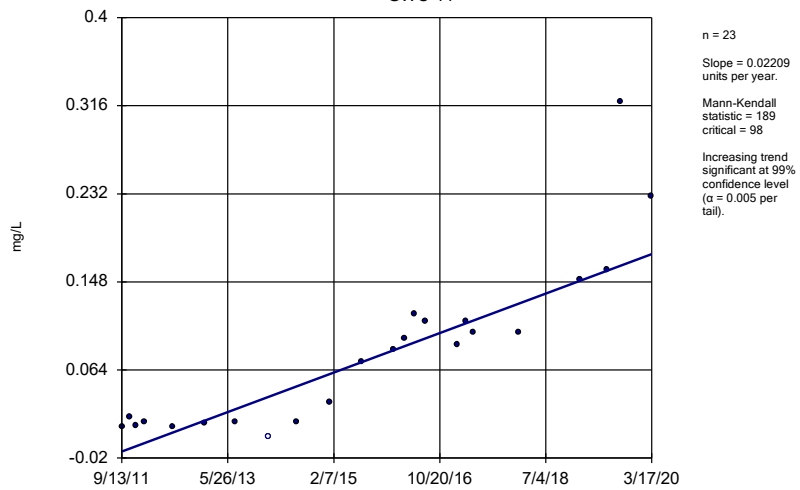
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-4 (bg)



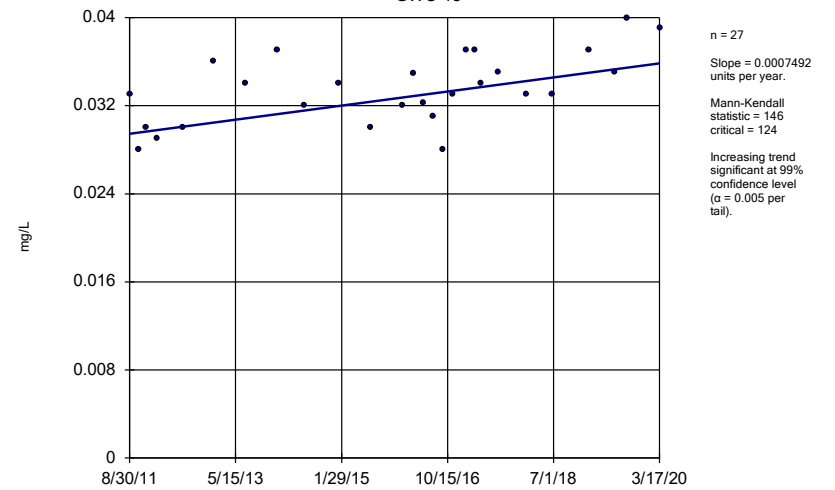
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-14



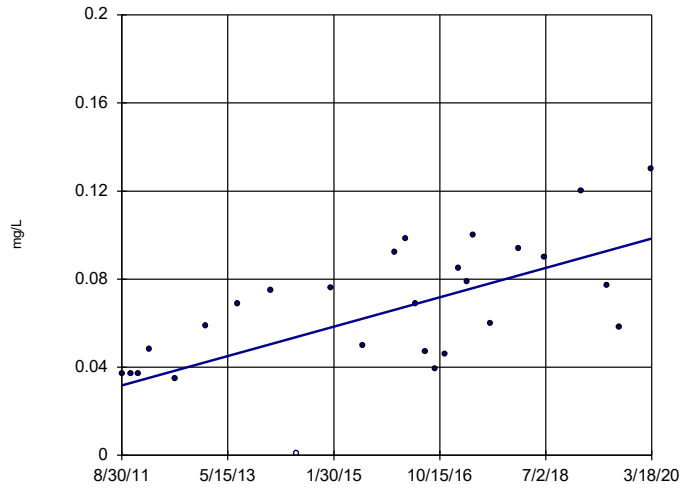
Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-18



Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

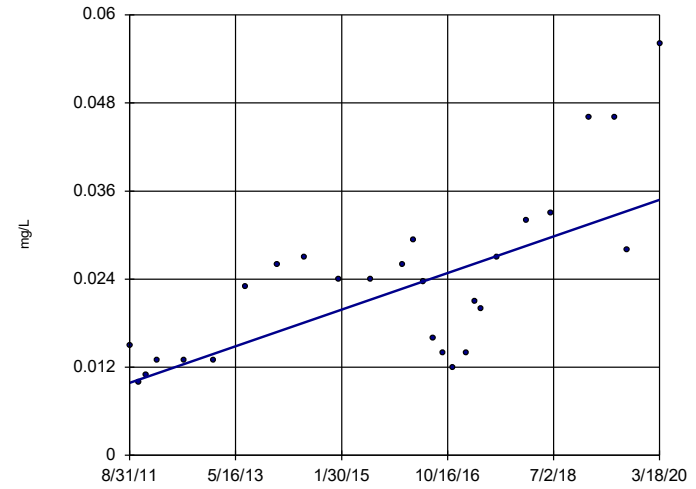
Sen's Slope Estimator
GWC-19



n = 27
Slope = 0.007778
units per year.
Mann-Kendall
statistic = 162
critical = 124
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

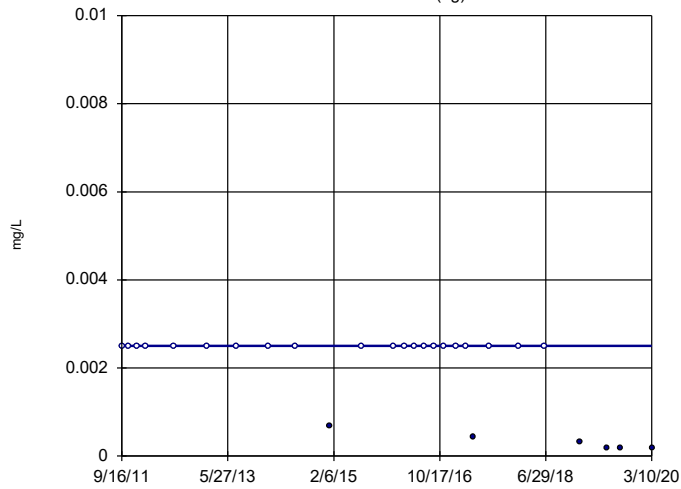
Sen's Slope Estimator
GWC-21



n = 27
Slope = 0.002917
units per year.
Mann-Kendall
statistic = 181
critical = 124
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

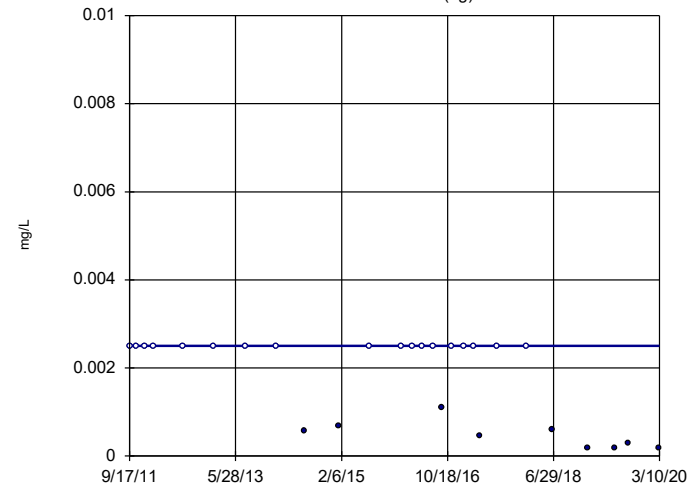
Sen's Slope Estimator
GWA-1 (bg)



n = 27
Slope = 0
units per year.
Mann-Kendall
statistic = -110
critical = -124
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

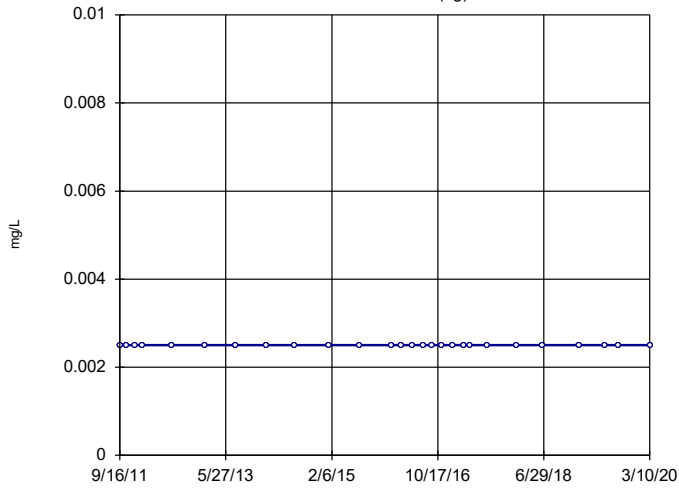
Sen's Slope Estimator
GWA-2 (bg)



n = 27
Slope = 0
units per year.
Mann-Kendall
statistic = -128
critical = -124
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

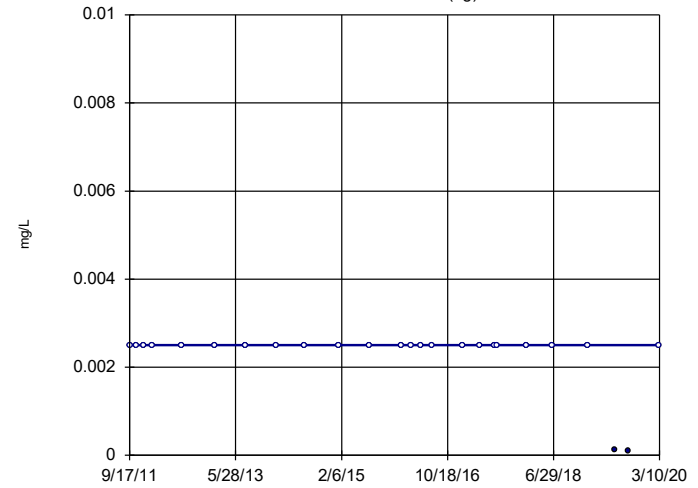
Sen's Slope Estimator GWA-28 (bg)



n = 27
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 124
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

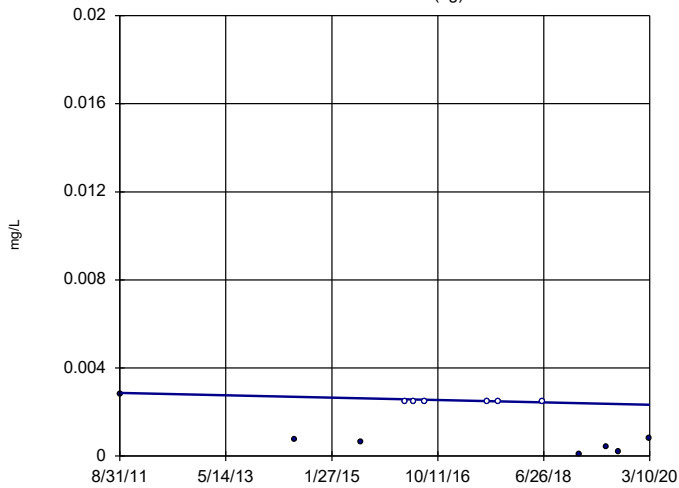
Sen's Slope Estimator GWA-29 (bg)



n = 25
Slope = 0
units per year.
Mann-Kendall
statistic = -43
critical = -111
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

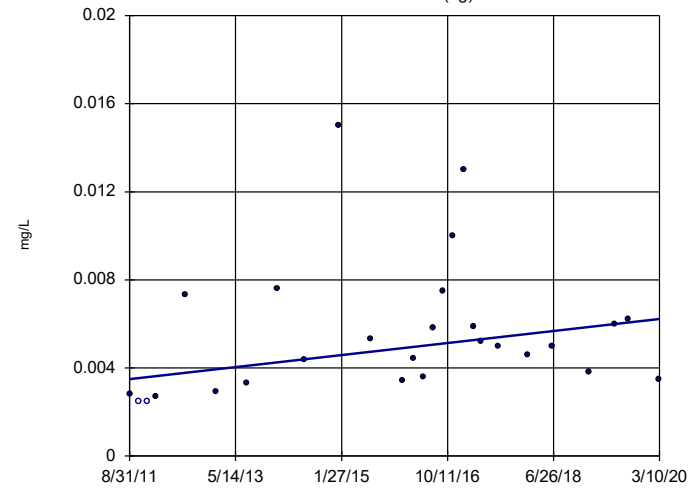
Sen's Slope Estimator GWA-3 (bg)



n = 13
Slope = -0.00006222
units per year.
Mann-Kendall
statistic = -25
critical = -43
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

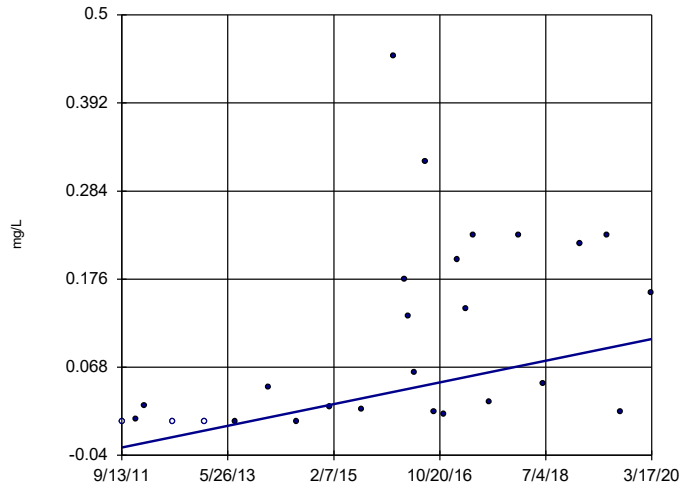
Sen's Slope Estimator GWA-4 (bg)



n = 27
Slope = 0.00032
units per year.
Mann-Kendall
statistic = 101
critical = 124
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

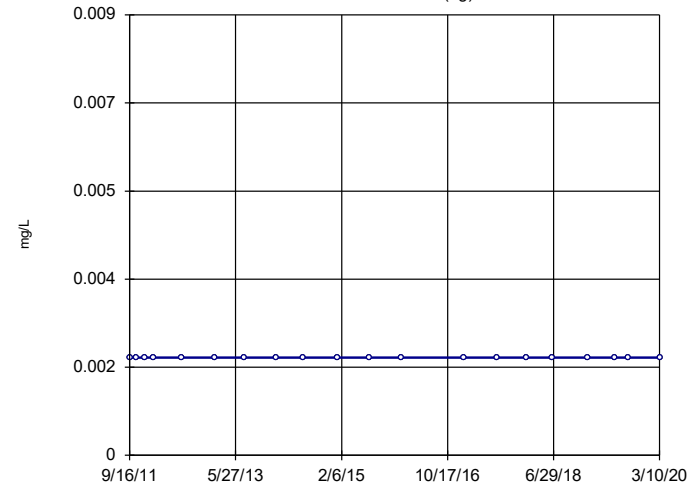
Sen's Slope Estimator
GWC-14



n = 27
Slope = 0.01562
units per year.
Mann-Kendall
statistic = 137
critical = 124
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

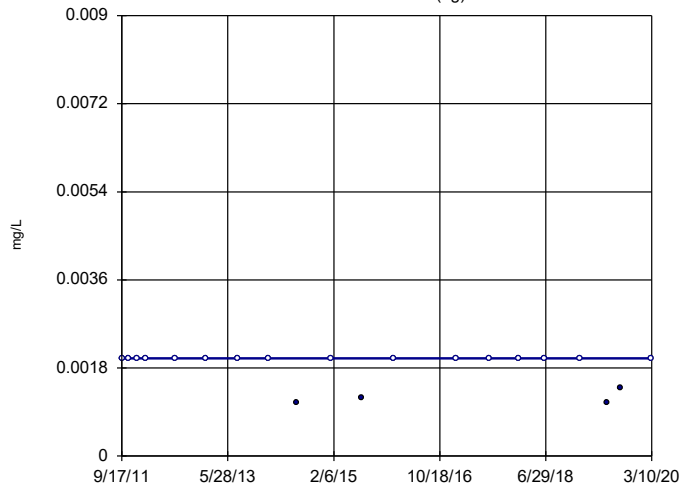
Sen's Slope Estimator
GWA-1 (bg)



n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

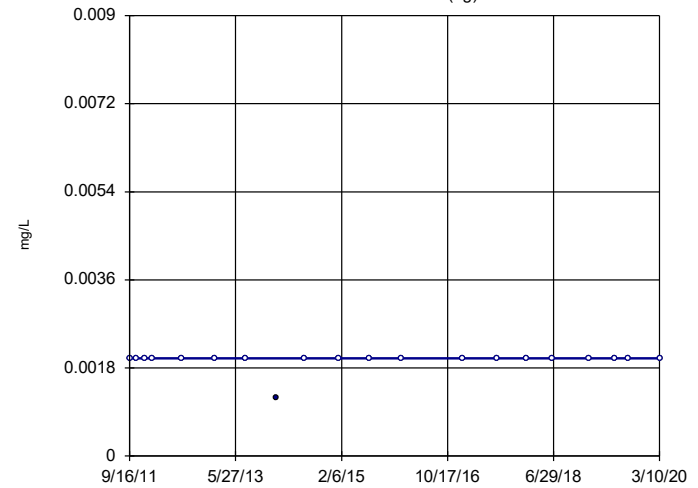
Sen's Slope Estimator
GWA-2 (bg)



n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = -27
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-28 (bg)

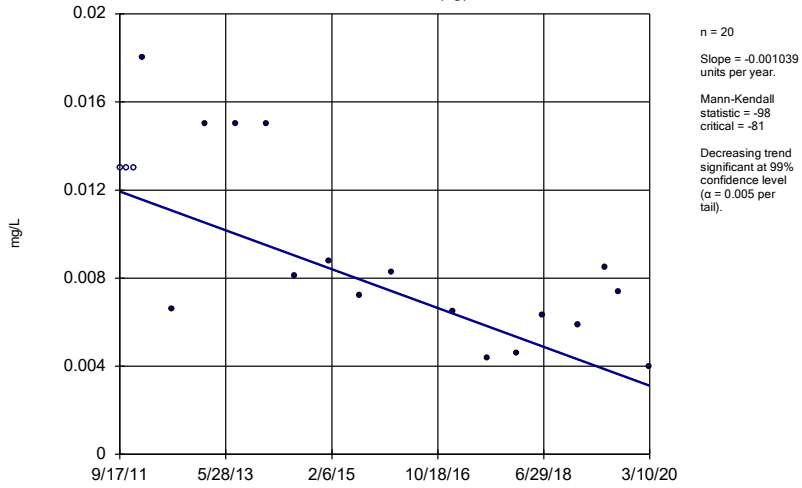


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

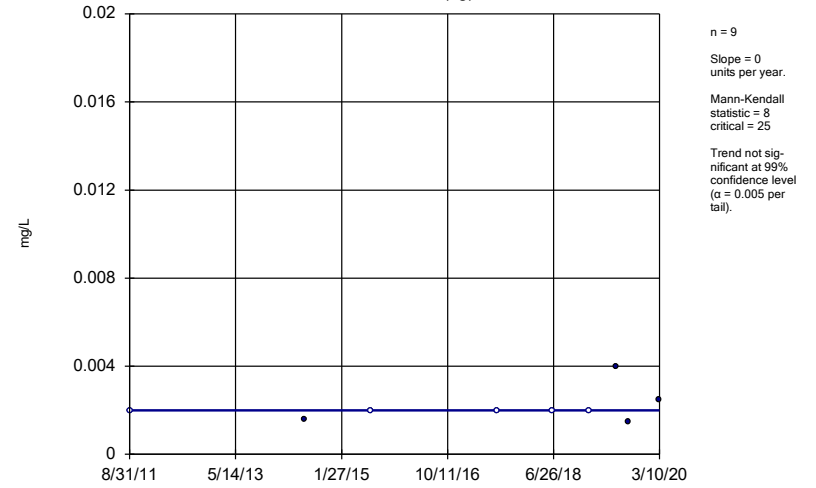
GWA-29 (bg)



Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

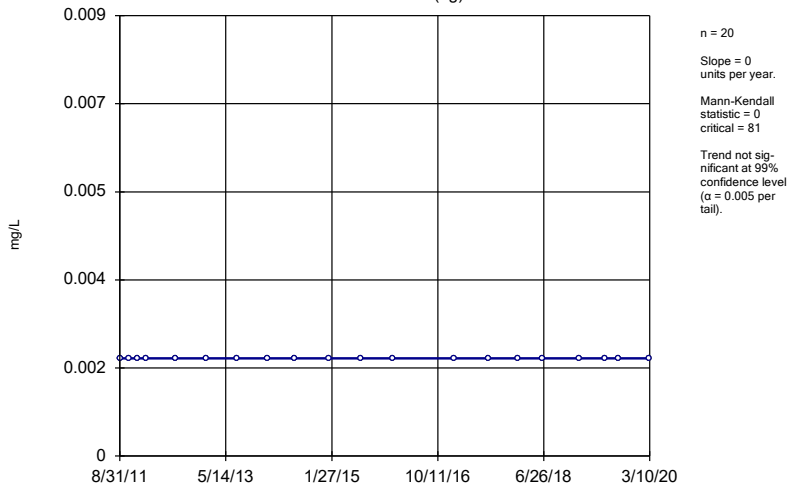
GWA-3 (bg)



Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

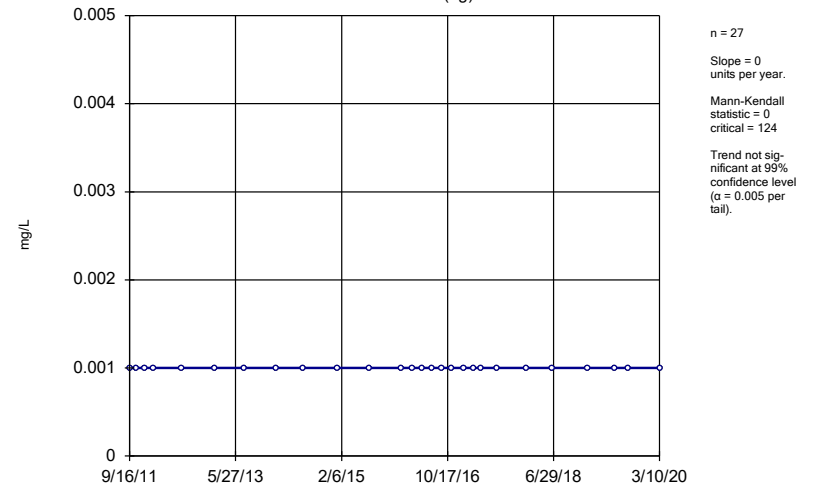
GWA-4 (bg)



Constituent: Copper Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

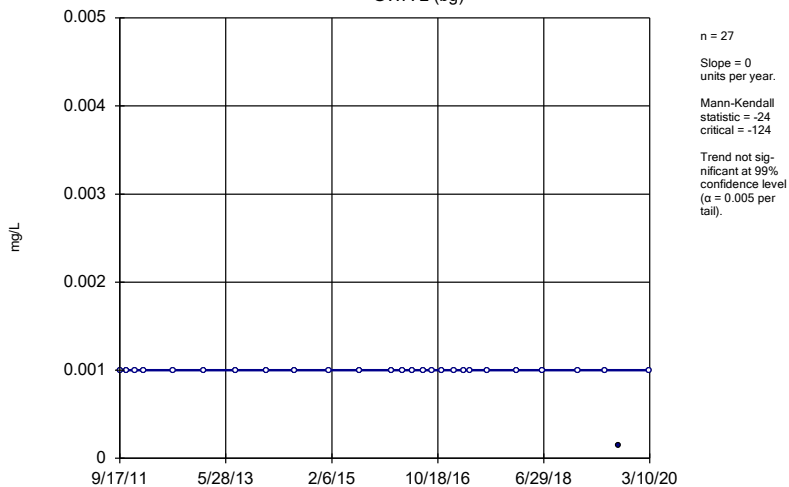
Sen's Slope Estimator

GWA-1 (bg)



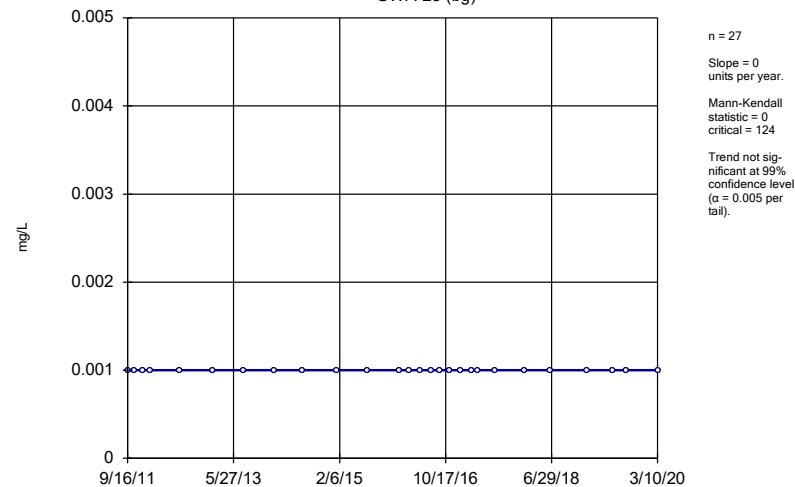
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-2 (bg)



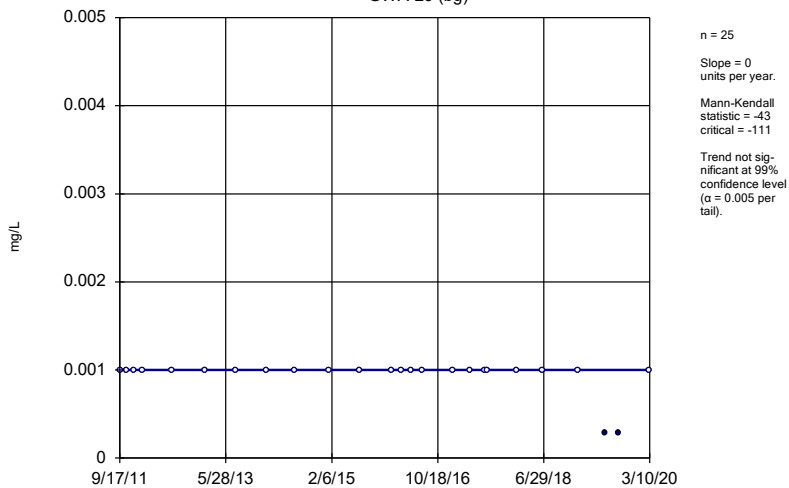
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-28 (bg)



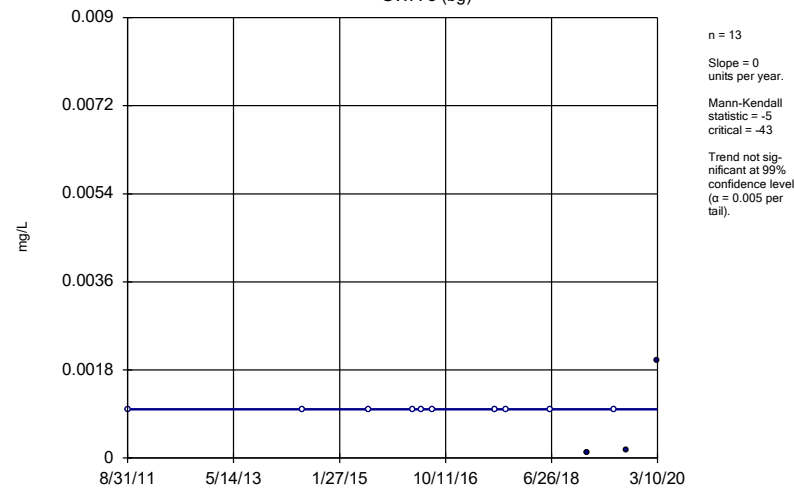
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-29 (bg)



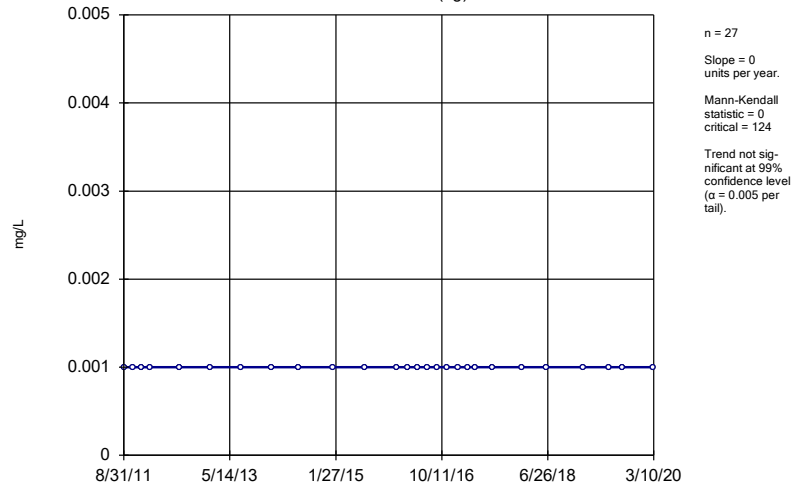
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-3 (bg)



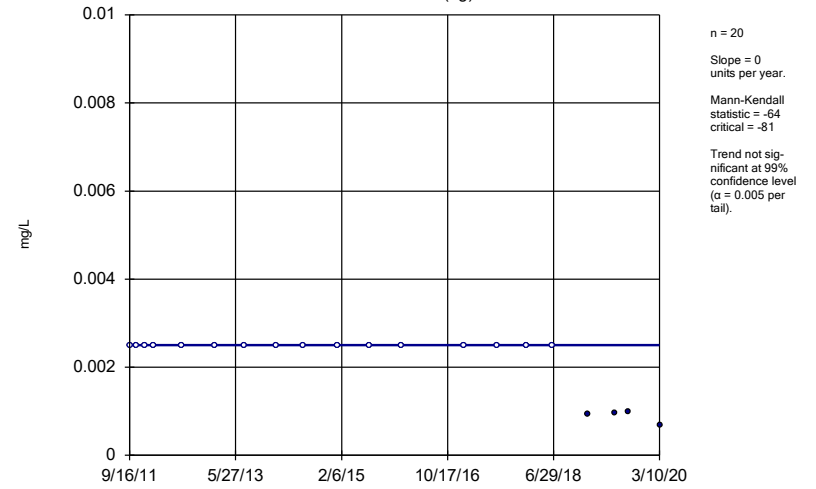
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-4 (bg)



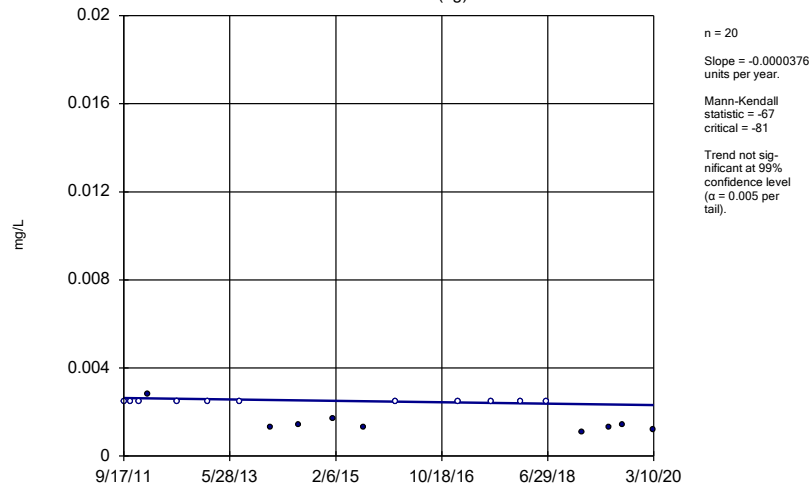
Constituent: Lead Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-1 (bg)



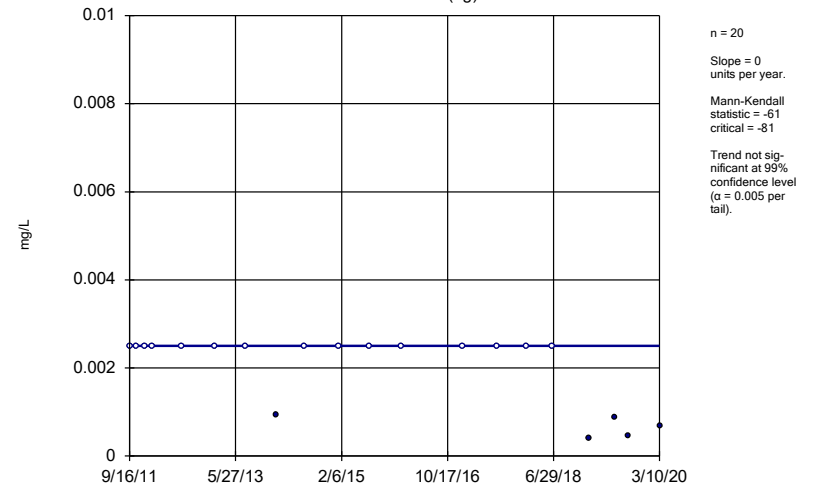
Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-2 (bg)



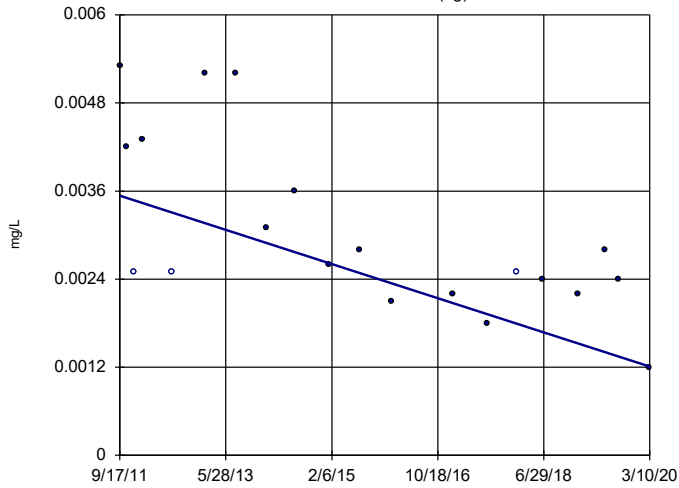
Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-28 (bg)



Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

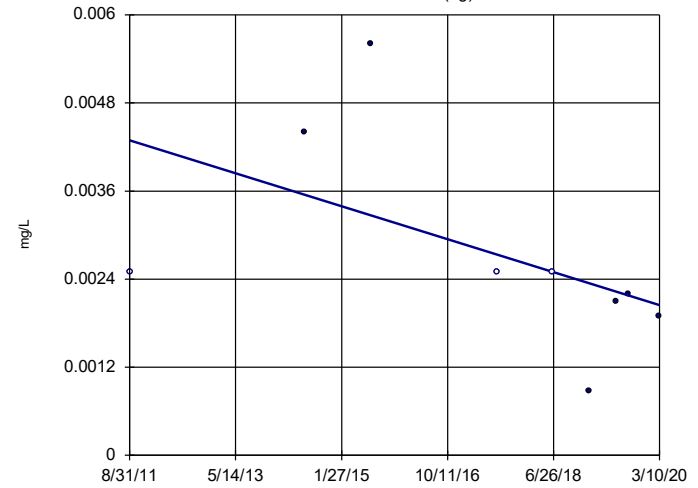
Sen's Slope Estimator
GWA-29 (bg)



n = 20
Slope = -0.0002747
units per year.
Mann-Kendall
statistic = -99
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

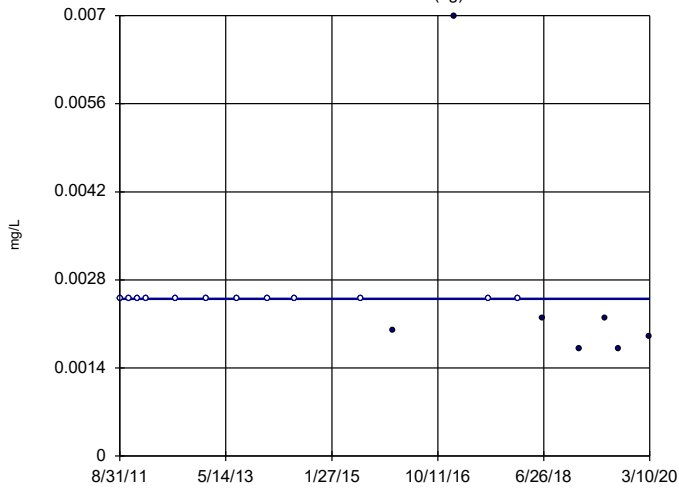
Sen's Slope Estimator
GWA-3 (bg)



n = 9
Slope = -0.0002631
units per year.
Mann-Kendall
statistic = -19
critical = -25
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

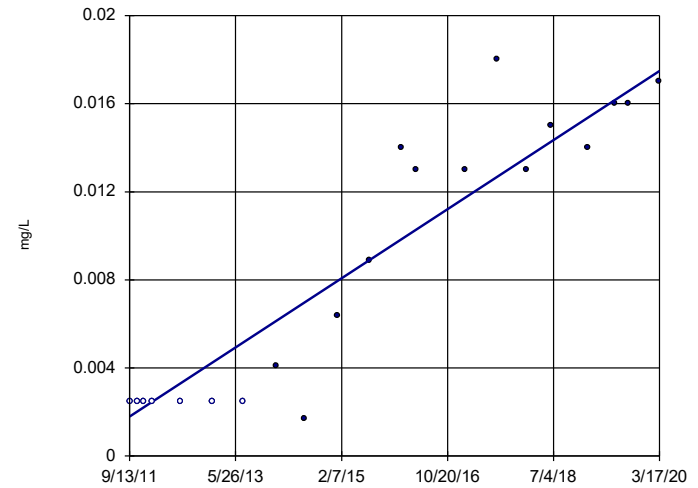
Sen's Slope Estimator
GWA-4 (bg)



n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = -67
critical = -74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-14

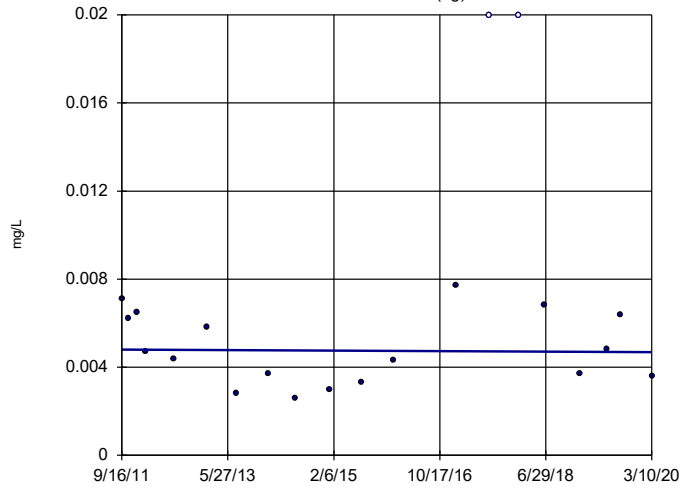


n = 21
Slope = 0.001843
units per year.
Mann-Kendall
statistic = 148
critical = 87
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Nickel Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

GWA-1 (bg)

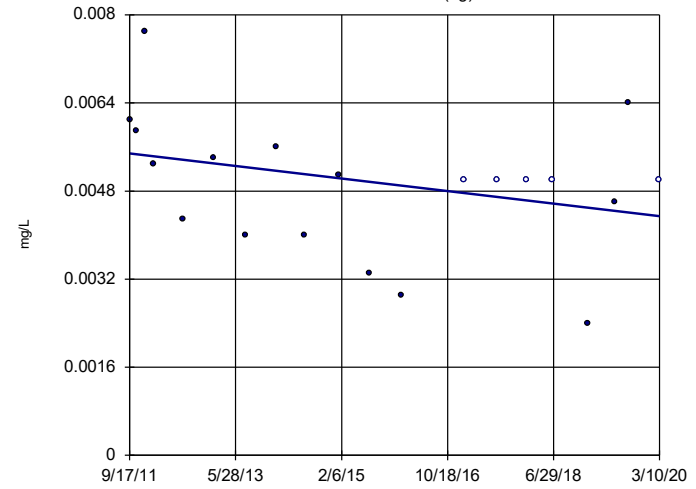


n = 20
Slope = -0.000146
units per year.
Mann-Kendall
statistic = -4
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

GWA-2 (bg)

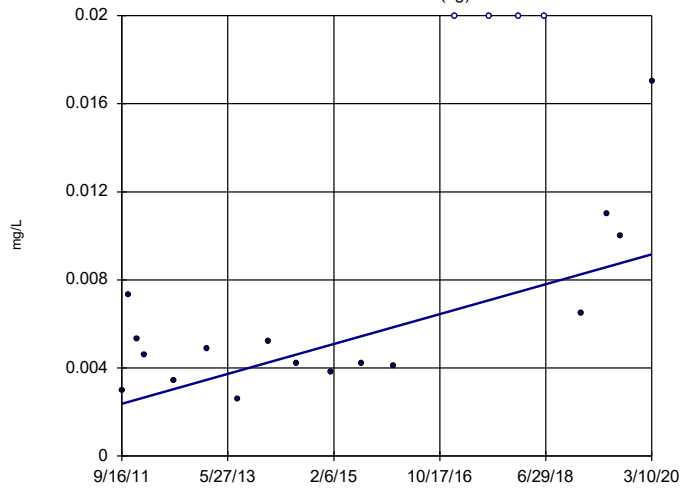


n = 20
Slope = -0.0001346
units per year.
Mann-Kendall
statistic = -57
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

GWA-28 (bg)

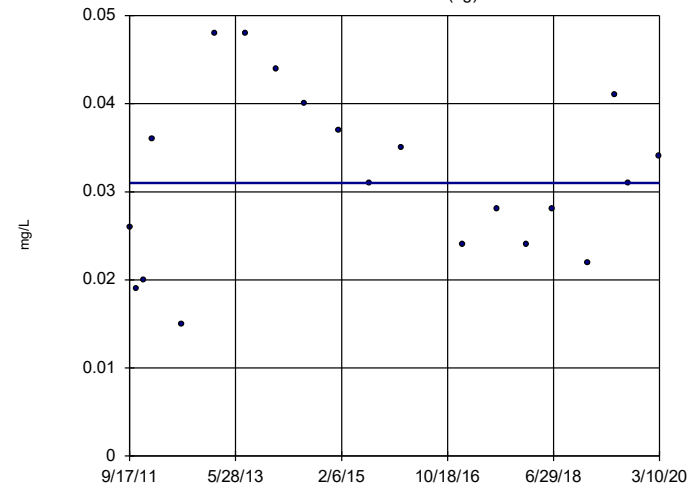


n = 20
Slope = 0.0008004
units per year.
Mann-Kendall
statistic = 69
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

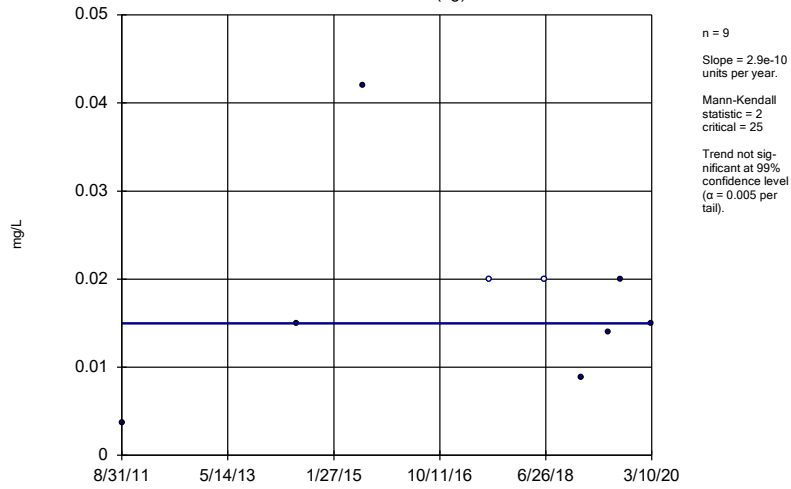
GWA-29 (bg)



n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = -2
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

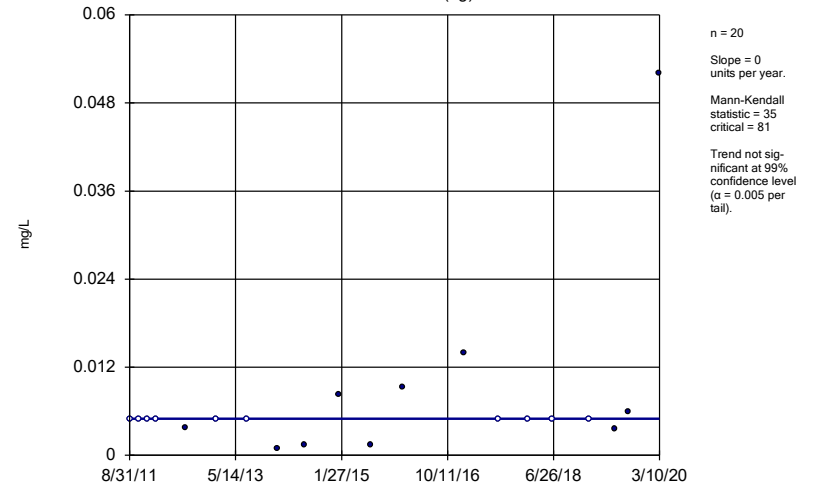
Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-3 (bg)



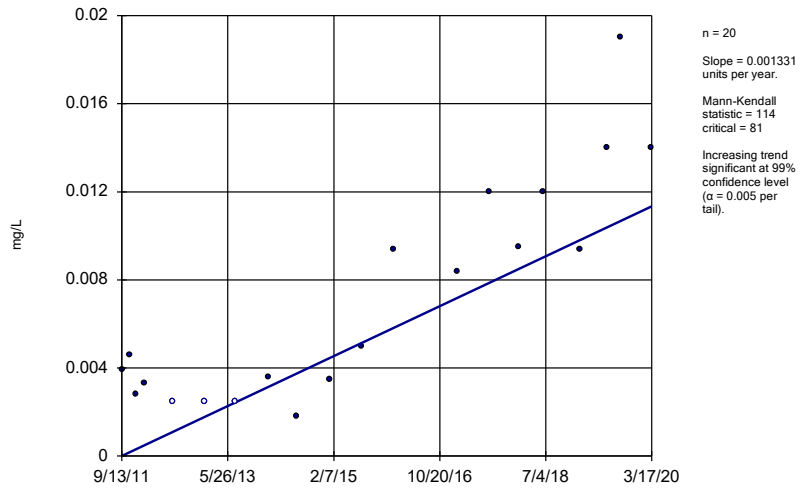
Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-4 (bg)



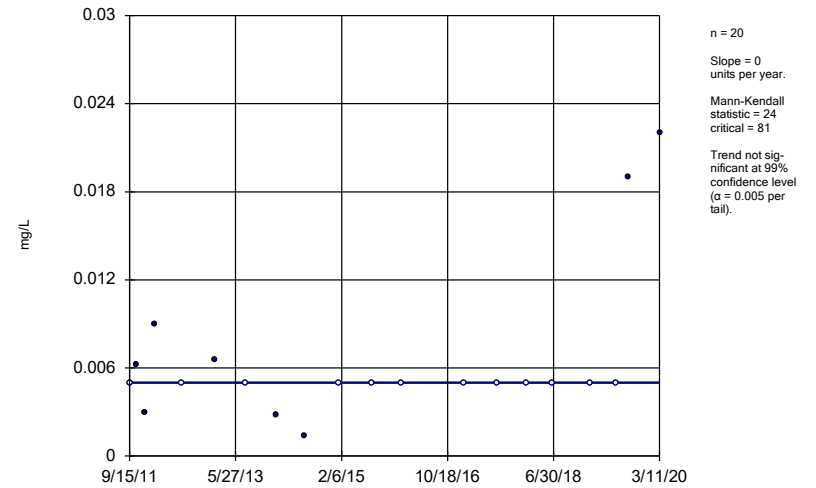
Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-14



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

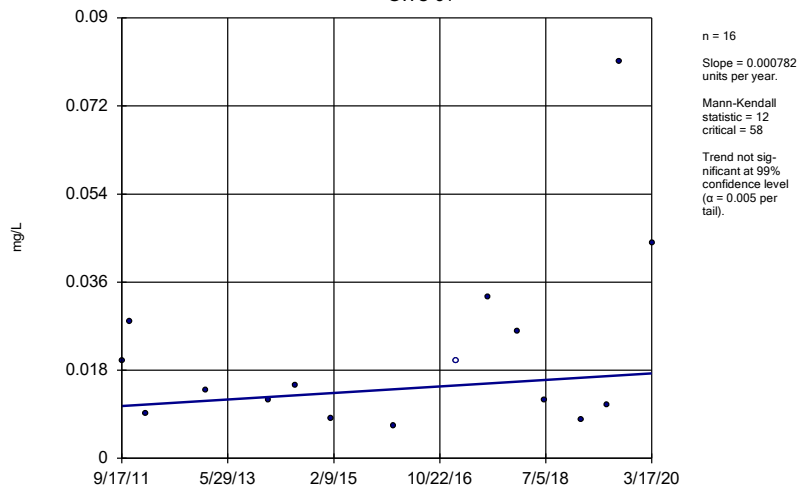
Sen's Slope Estimator
GWC-30



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

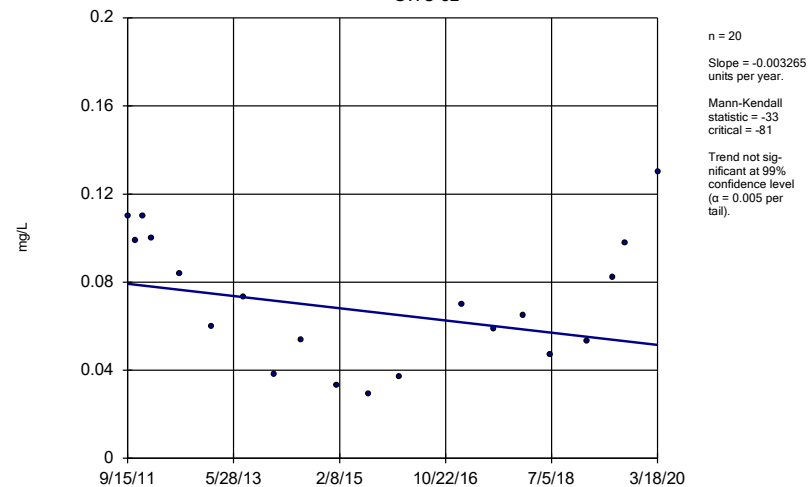
GWC-31



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

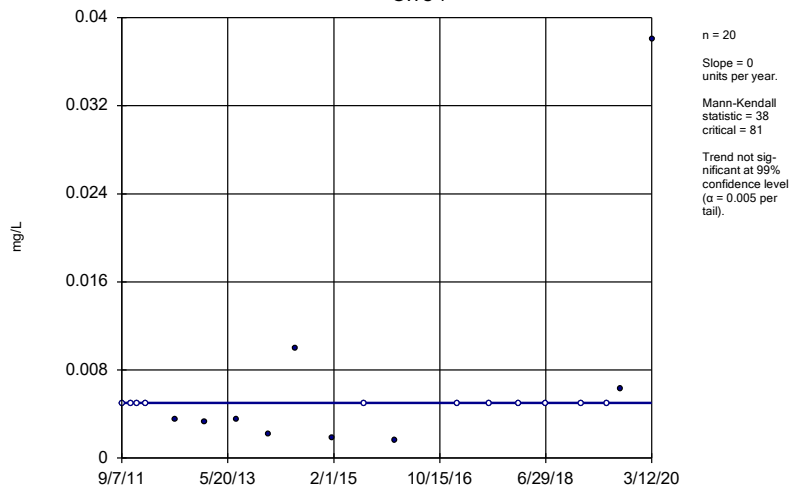
GWC-32



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

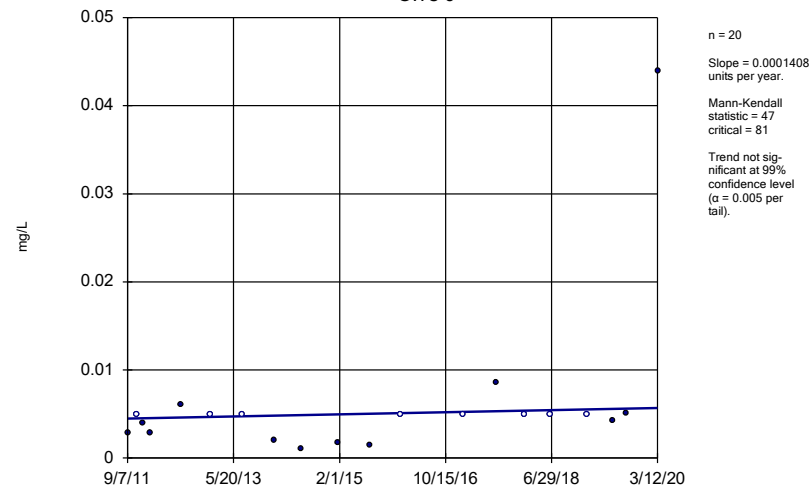
GWC-7



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

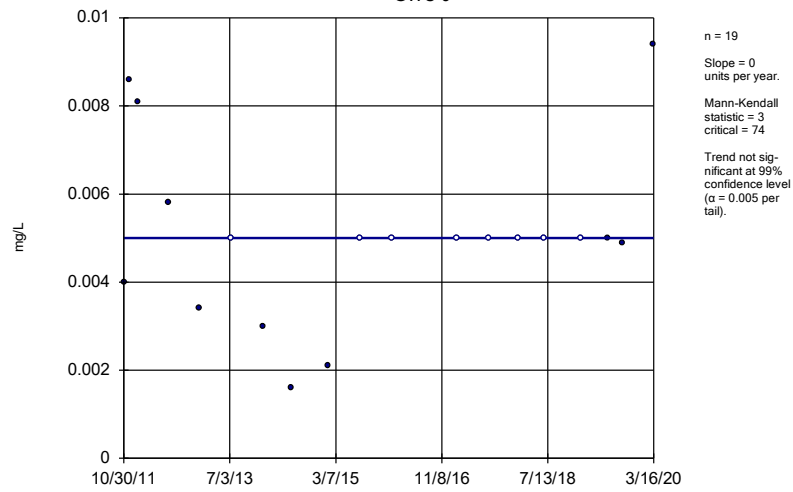
GWC-8



Constituent: Zinc Analysis Run 5/20/2020 1:49 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

GWC-9



Constituent: Zinc Analysis Run 5/20/2020 1:50 PM View: State Parameters - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

FIGURE F.

Appendix III - Intrawell Prediction Limits Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:31 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	GWA-29	6.445	5.77	3/10/2020	5.75	Yes	14	n/a	n/a	0	n/a	n/a	n/a	0.01722	NP Intra (normality) 1 of 2
pH, Field (S.U.)	GWC-26	6.038	5.58	3/13/2020	5.52	Yes	15	n/a	n/a	0	n/a	n/a	n/a	0.01507	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	GWA-1	1	n/a	3/10/2020	1.7	Yes	15	n/a	n/a	93.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWA-28	2.189	n/a	3/10/2020	3	Yes	15	1.244	0.3334	6.667	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-13	3.195	n/a	3/12/2020	4.5	Yes	15	2.597	0.2111	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-17	1.1	n/a	3/17/2020	1.2	Yes	15	n/a	n/a	53.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-24	1.019	n/a	3/12/2020	2.3	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-26	1	n/a	3/13/2020	1.8	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-30	1.726	n/a	3/11/2020	3.3	Yes	15	1.252	0.1671	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-34	2.085	n/a	3/11/2020	3.8	Yes	15	1.535	0.1943	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-35	3.131	n/a	3/11/2020	4.7	Yes	15	2.587	0.1918	0	None	No	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-6	19.26	n/a	3/16/2020	30	Yes	15	12.52	2.376	0	None	No	No	0.0002595	Param Intra 1 of 2

Appendix III - Intrawell Prediction Limits Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:31 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (S.U.)	GWA-1	5.838	4.925	3/10/2020	5.42	No	16	5.381	0.1652	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWA-2	6.045	5.368	3/10/2020	5.72	No	15	5.707	0.1195	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWA-28	6.785	5.444	3/10/2020	6.05	No	16	6.115	0.2427	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWA-29	6.445	5.77	3/10/2020	5.75	Yes	14	n/a	n/a	0	n/a	n/a	n/a	0.01722	NP Intra (normality) 1 of 2
pH, Field (S.U.)	GWA-3	7.59	4.499	3/10/2020	5.53	No	8	6.044	0.4045	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWA-4	6.653	5.891	3/10/2020	6.24	No	14	6.272	0.1312	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-10	7.324	4.942	3/17/2020	5.96	No	14	6.133	0.4097	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-11	6.6	5.622	3/16/2020	5.92	No	16	6.111	0.1772	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-12	7.903	6.27	3/18/2020	7.55	No	15	20261	3730	0	None	x^5	0.0001297	Param Intra 1 of 2	
pH, Field (S.U.)	GWC-13	7.566	6.52	3/12/2020	6.68	No	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-14	6.469	4.507	3/17/2020	5.63	No	16	5.488	0.3552	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-15	7.24	6.43	3/16/2020	6.58	No	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-16	6.396	5.806	3/17/2020	6.35	No	14	6.101	0.1015	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-17	6.484	5.944	3/17/2020	6.09	No	15	6.214	0.09511	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-18	6.25	5.664	3/17/2020	5.88	No	14	5.957	0.1008	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-19	6.356	5.555	3/18/2020	5.71	No	15	5.955	0.1414	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-20	7.121	6.08	3/18/2020	6.16	No	14	n/a	n/a	0	n/a	n/a	0.01722	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-21	6.575	5.35	3/18/2020	5.45	No	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-22	6.94	6.246	3/18/2020	6.85	No	15	6.593	0.1223	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-23	7.295	4.87	3/18/2020	6.06	No	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-24	7.624	3.985	3/12/2020	5.33	No	14	5.804	0.6258	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-25	7.45	4.89	3/12/2020	6.4	No	17	6.17	0.4699	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-26	6.038	5.58	3/13/2020	5.52	Yes	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-27	6.056	5.119	3/12/2020	5.36	No	16	5.588	0.1696	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-30	6.78	5.9	3/11/2020	6.04	No	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-31	6.536	5.691	3/17/2020	6.15	No	14	6.113	0.1454	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-32	6.432	5.857	3/18/2020	6.13	No	14	6.144	0.09892	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-33	7.005	5.744	3/12/2020	6.37	No	16	6.375	0.2283	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-34	6.622	5.289	3/11/2020	5.93	No	16	5.956	0.2414	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-35	6.32	5.19	3/11/2020	5.62	No	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-5	7.05	6.15	3/16/2020	6.35	No	15	n/a	n/a	0	n/a	n/a	0.01507	NP Intra (normality) 1 of 2	
pH, Field (S.U.)	GWC-6	6.569	5.49	3/16/2020	5.86	No	15	6.03	0.1904	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-7	6.598	6.104	3/12/2020	6.45	No	15	6.351	0.08699	0	None	None	No	0.0001297	Param Intra 1 of 2
pH, Field (S.U.)	GWC-8	6.647	5.507	3/12/2020	5.86	No	16	2.462	0.04189	0	None	sqrt(x)	0.0001297	Param Intra 1 of 2	
pH, Field (S.U.)	GWC-9	6.393	5.329	3/16/2020	5.8	No	14	5.861	0.183	0	None	None	No	0.0001297	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWA-1	1	n/a	3/10/2020	1.7	Yes	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWA-2	3.105	n/a	3/10/2020	2.5	No	15	1.08	0.2406	0	None	sqrt(x)	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWA-28	2.189	n/a	3/10/2020	3	Yes	15	1.244	0.3334	6.667	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWA-29	26	n/a	3/10/2020	6	No	14	n/a	n/a	0	n/a	n/a	0.008612	NP Intra (normality) 1 of 2	
Sulfate as SO4 (mg/L)	GWA-3	342.8	n/a	3/10/2020	16	No	8	92.09	65.61	12.5	None	None	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWA-4	15	n/a	3/10/2020	12	No	15	n/a	n/a	0	n/a	n/a	0.007533	NP Intra (normality) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-10	56.03	n/a	3/17/2020	16	No	15	27.94	9.91	0	None	None	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-11	1.5	n/a	3/16/2020	0.44	No	14	n/a	n/a	78.57	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-12	28.54	n/a	3/18/2020	25	No	15	22.2	2.238	0	None	None	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-13	3.195	n/a	3/12/2020	4.5	Yes	15	2.597	0.2111	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-14	40.18	n/a	3/17/2020	12	No	15	3.761	0.9091	0	None	sqrt(x)	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-15	2.613	n/a	3/16/2020	2.3	No	15	1.509	0.3894	0	None	None	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-16	1	n/a	3/17/2020	0.84	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-17	1.1	n/a	3/17/2020	1.2	Yes	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-18	1	n/a	3/17/2020	1	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-19	3.072	n/a	3/18/2020	1.1	No	14	0.9401	0.2795	35.71	Kaplan-Meier	sqrt(x)	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-20	1.44	n/a	3/18/2020	0.72	No	15	0.963	0.1684	6.667	None	None	No	0.0002595	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	GWC-21	1	n/a	3/18/2020	1ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-22	1	n/a	3/18/2020	0.65	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	GWC-23	1	n/a	3/18/2020	1ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2	

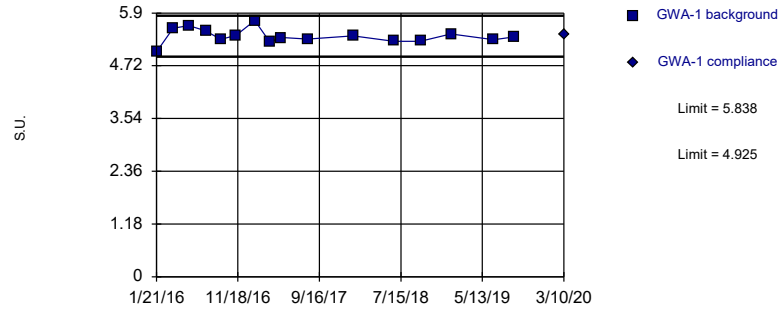
Appendix III - Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:31 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	GWC-24	1.019	n/a	3/12/2020	2.3	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-25	36.07	n/a	3/12/2020	9.7	No	15	12.5	8.315	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-26	1	n/a	3/13/2020	1.8	Yes	15	n/a	n/a	73.33	n/a	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	GWC-27	4.306	n/a	3/12/2020	2	No	15	1.723	0.9113	6.667	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-30	1.726	n/a	3/11/2020	3.3	Yes	15	1.252	0.1671	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-31	25.74	n/a	3/17/2020	7.3	No	10	14.8	3.29	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-32	15.43	n/a	3/18/2020	8.8	No	15	10.75	1.652	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-33	35.66	n/a	3/12/2020	11	No	14	17.78	6.15	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-34	2.085	n/a	3/11/2020	3.8	Yes	15	1.535	0.1943	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-35	3.131	n/a	3/11/2020	4.7	Yes	15	2.587	0.1918	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-5	44.19	n/a	3/16/2020	29	No	8	28.38	4.138	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-6	19.26	n/a	3/16/2020	30	Yes	15	12.52	2.376	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-7	110.2	n/a	3/12/2020	52	No	14	72.49	12.97	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-8	39.53	n/a	3/12/2020	18	No	14	18.2	7.338	0	None	No	0.0002595	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	GWC-9	44.53	n/a	3/16/2020	11	No	15	4.276	0.8455	0	None	sqrt(x)	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-1	37.94	n/a	3/10/2020	12	No	15	11.75	9.238	33.33	Kaplan-Meier	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-2	92.29	n/a	3/10/2020	43	No	15	32.6	21.06	20	Kaplan-Meier	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-28	120.8	n/a	3/10/2020	40	No	15	64.33	19.91	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-29	160.7	n/a	3/10/2020	50	No	14	77.64	28.56	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-3	678.9	n/a	3/10/2020	170	No	8	230.1	117.4	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWA-4	213	n/a	3/10/2020	190	No	15	158.3	19.31	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-10	333.5	n/a	3/17/2020	140	No	15	162.4	60.37	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-11	327.2	n/a	3/16/2020	46	No	15	156.1	60.36	6.667	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-12	268	n/a	3/18/2020	200	No	15	179.7	31.13	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-13	99.82	n/a	3/12/2020	56	No	15	50.4	17.43	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-14	616.8	n/a	3/17/2020	370	No	15	286.5	116.5	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-15	123.5	n/a	3/16/2020	100	No	15	78.47	15.87	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-16	151.5	n/a	3/17/2020	93	No	15	72.07	28.01	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-17	156.3	n/a	3/17/2020	84	No	15	90.53	23.22	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-18	113.6	n/a	3/17/2020	90	No	15	71.33	14.9	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-19	128.1	n/a	3/18/2020	64	No	15	61.67	23.44	6.667	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-20	129.9	n/a	3/18/2020	78	No	15	89.6	14.21	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-21	85.2	n/a	3/18/2020	49	No	15	44.2	14.46	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-22	128.7	n/a	3/18/2020	93	No	15	1016498	393346	6.667	None	x^3	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-23	161.4	n/a	3/18/2020	29	No	15	6.093	2.333	6.667	None	sqrt(x)	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-24	50.35	n/a	3/12/2020	23	No	15	22.87	9.694	13.33	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-25	137	n/a	3/12/2020	76	No	15	81.07	19.73	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-26	103.8	n/a	3/13/2020	32	No	15	37.23	23.48	6.667	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-27	85.23	n/a	3/12/2020	26	No	15	33.22	18.35	20	Kaplan-Meier	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-30	89.5	n/a	3/11/2020	44	No	15	41.2	17.04	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-31	193.9	n/a	3/17/2020	86	No	10	110.4	25.14	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-32	146.6	n/a	3/18/2020	120	No	15	87.33	20.91	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-33	174.3	n/a	3/12/2020	120	No	15	104.5	24.61	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-34	119.4	n/a	3/11/2020	36	No	15	42.87	27.01	13.33	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-35	78.7	n/a	3/11/2020	42	No	15	33.57	15.92	6.667	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-5	287.7	n/a	3/16/2020	210	No	15	176.1	39.38	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-6	198.6	n/a	3/16/2020	110	No	15	110.9	30.91	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-7	569.1	n/a	3/12/2020	360	No	15	433.4	47.88	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-8	304.7	n/a	3/12/2020	140	No	15	177.2	44.99	0	None	No	0.0002595	Param Intra 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	GWC-9	370	n/a	3/16/2020	100	No	15	177.5	67.9	0	None	No	0.0002595	Param Intra 1 of 2	

Within Limits

Prediction Limit
Intrawell Parametric

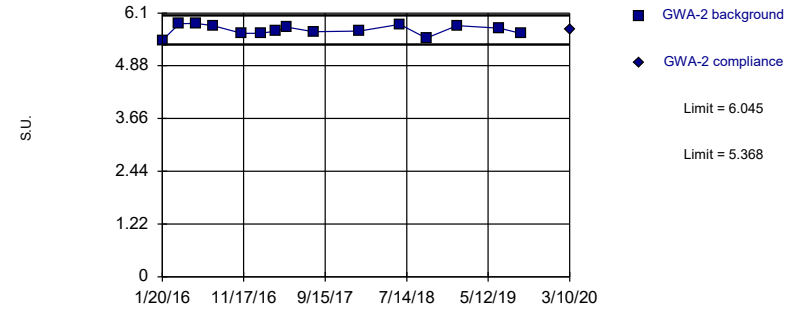


Background Data Summary: Mean=5.381, Std. Dev.=0.1652, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

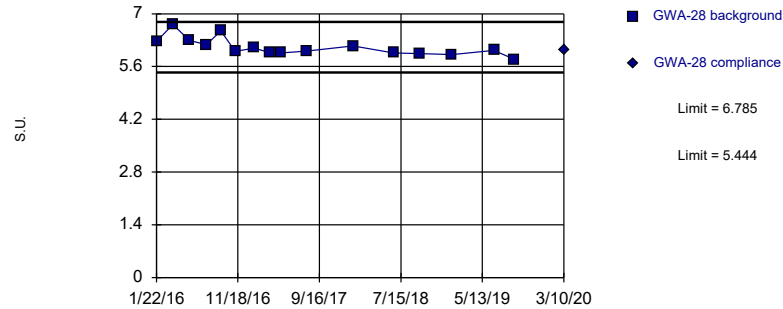


Background Data Summary: Mean=5.707, Std. Dev.=0.1195, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9336, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

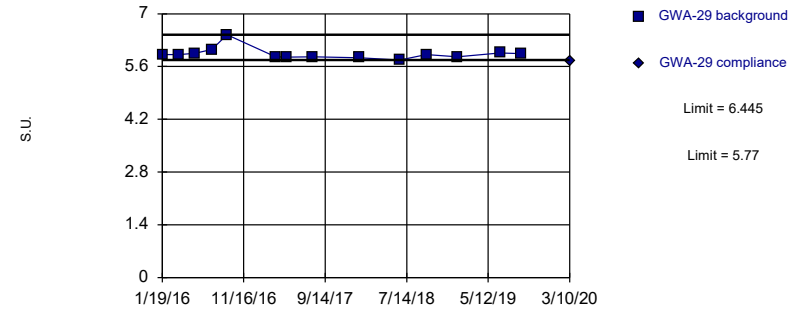


Background Data Summary: Mean=6.115, Std. Dev.=0.2427, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limits

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. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
1/21/2016	5.03	
3/23/2016	5.56	
5/20/2016	5.62	
7/21/2016	5.500376	
9/15/2016	5.31	
11/11/2016	5.4	
1/19/2017	5.73	
3/16/2017	5.25	
4/28/2017	5.35	
8/3/2017	5.32 (D)	
1/19/2018	5.39 (D)	
6/19/2018	5.27	
9/25/2018	5.27	
1/17/2019	5.43	
6/24/2019	5.3	
9/9/2019	5.37	
3/10/2020		5.42

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
1/20/2016	5.47	
3/23/2016	5.85	
5/24/2016	5.86	
7/26/2016	5.808275	
9/15/2016	7.195292 (O)	
11/10/2016	5.63	
1/19/2017	5.63	
3/17/2017	5.68	
4/28/2017	5.77	
8/2/2017	5.67 (D)	
1/19/2018	5.68 (D)	
6/19/2018	5.84	
9/25/2018	5.52	
1/17/2019	5.81	
6/24/2019	5.75	
9/10/2019	5.63	
3/10/2020		5.72

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
1/22/2016	6.27	
3/22/2016	6.72	
5/23/2016	6.29	
7/25/2016	6.178217	
9/16/2016	6.545359	
11/9/2016	6	
1/17/2017	6.09	
3/16/2017	5.98	
4/27/2017	5.96	
8/1/2017	6.01 (D)	
1/19/2018	6.15 (D)	
6/19/2018	5.96	
9/25/2018	5.94	
1/21/2019	5.92	
6/25/2019	6.03	
9/10/2019	5.79	
3/10/2020		6.05

Prediction Limit

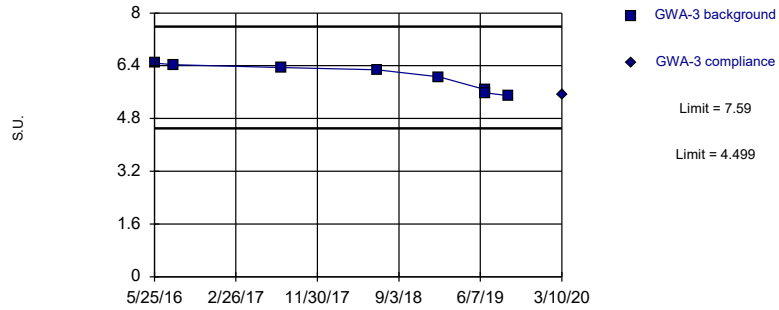
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
1/19/2016	5.92	
3/22/2016	5.92	
5/19/2016	5.95	
7/21/2016	6.049508	
9/15/2016	6.444541	
3/15/2017	5.86	
4/27/2017	5.85	
8/1/2017	5.86 (D)	
1/19/2018	5.83 (D)	
6/19/2018	5.77	
9/25/2018	5.92	
1/18/2019	5.86	
6/25/2019	5.96	
9/10/2019	5.94	
3/10/2020		5.75

Within Limits

Prediction Limit
Intrawell Parametric

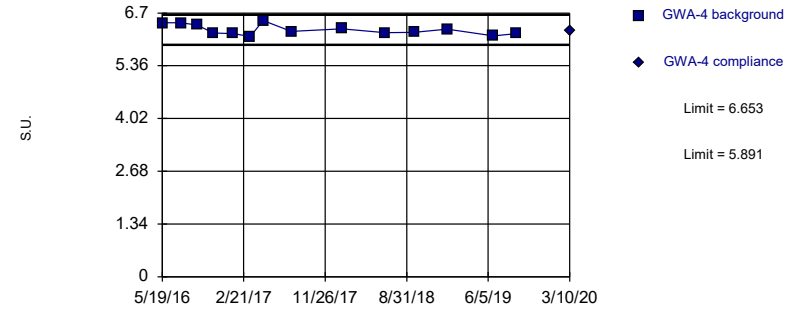


Background Data Summary: Mean=6.044, Std. Dev.=0.4045, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8696, critical = 0.749. Kappa = 3.821 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

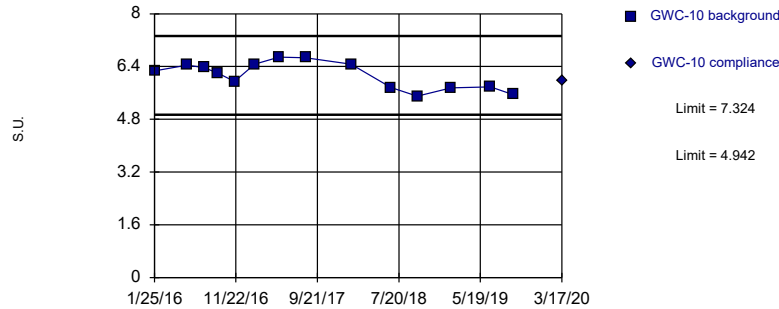


Background Data Summary: Mean=6.272, Std. Dev.=0.1312, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9087, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

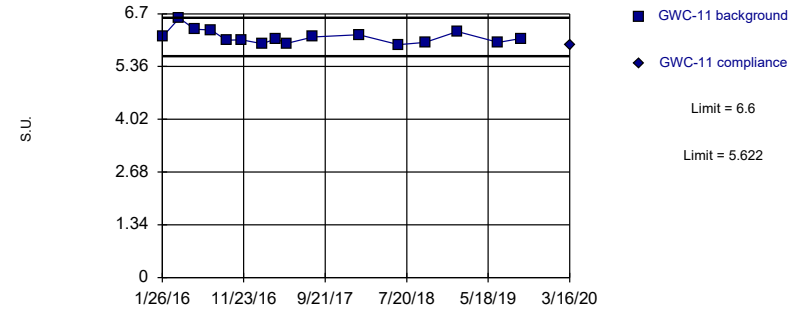


Background Data Summary: Mean=6.133, Std. Dev.=0.4097, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.111, Std. Dev.=0.1772, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8741, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
5/25/2016	6.48	
7/27/2016	6.43219	
8/1/2017	6.35 (D)	
6/20/2018	6.28	
1/17/2019	6.06	
6/24/2019	5.68	
6/25/2019	5.58	
9/11/2019	5.49	
3/10/2020		5.53

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
5/19/2016	6.45	
7/21/2016	6.449699	
9/14/2016	6.396439	
11/10/2016	6.19	
1/17/2017	6.18	
3/16/2017	6.1	
4/28/2017	6.51	
8/2/2017	6.23 (D)	
1/22/2018	6.3 (D)	
6/19/2018	6.2	
9/25/2018	6.21	
1/17/2019	6.29	
6/24/2019	6.12	
9/10/2019	6.18	
3/10/2020		6.24

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
1/25/2016	6.27	
5/25/2016	6.44	
7/27/2016	6.364588	
9/16/2016	6.202937	
11/17/2016	5.95	
1/31/2017	6.47	
5/2/2017	6.69	
8/8/2017	6.67 (D)	
1/24/2018	6.47 (D)	
6/21/2018	5.76	
9/27/2018	5.5	
1/31/2019	5.75	
6/26/2019	5.78	
9/17/2019	5.55	
3/17/2020		5.96

Prediction Limit

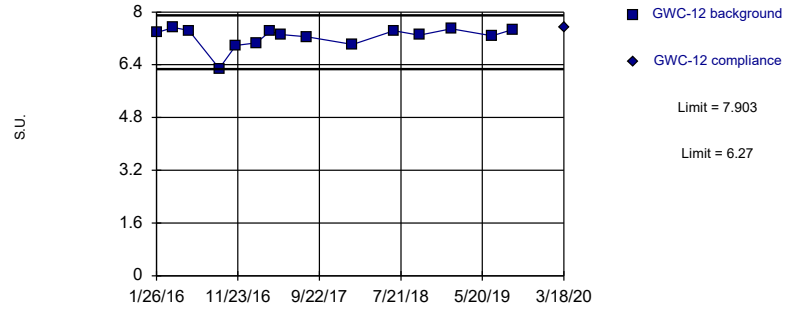
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
1/26/2016	6.11	
3/29/2016	6.59	
5/25/2016	6.31	
7/25/2016	6.287783	
9/19/2016	6.027665	
11/16/2016	6.04	
1/31/2017	5.94	
3/23/2017	6.06	
5/2/2017	5.95	
8/7/2017	6.11 (D)	
1/24/2018	6.17 (D)	
6/20/2018	5.92	
9/27/2018	5.97	
1/24/2019	6.25	
6/26/2019	5.97	
9/16/2019	6.07	
3/16/2020		5.92

Within Limits

Prediction Limit
Intrawell Parametric

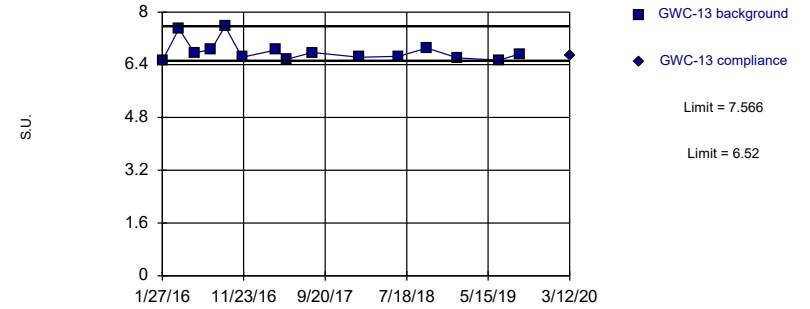


Background Data Summary (based on x^5 transformation): Mean=20261, Std. Dev.=3730, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8398, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

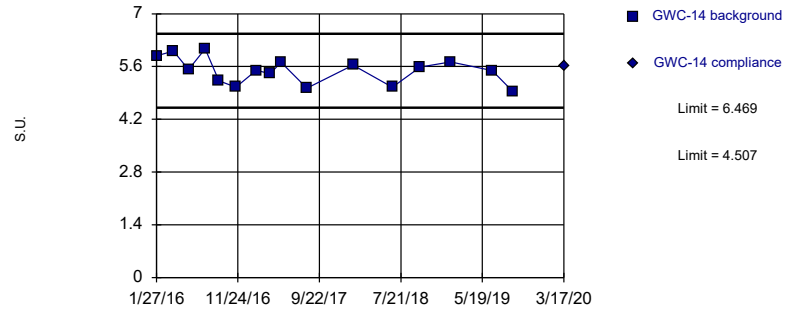


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

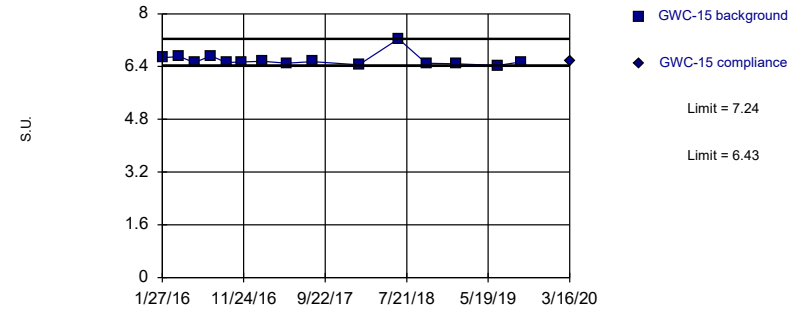


Background Data Summary: Mean=5.488, Std. Dev.=0.3552, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

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. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
1/26/2016	7.37	
3/29/2016	7.53	
5/25/2016	7.44	
9/15/2016	6.283325	
11/16/2016	6.99	
1/31/2017	7.065 (D)	
3/23/2017	7.41	
5/3/2017	7.32	
8/7/2017	7.25 (D)	
1/24/2018	7.02 (D)	
6/26/2018	7.43	
9/28/2018	7.3	
1/25/2019	7.49	
6/26/2019	7.28	
9/11/2019	7.47	
3/18/2020		7.55

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
1/27/2016	6.52	
3/29/2016	7.49	
5/25/2016	6.76	
7/26/2016	6.859244	
9/15/2016	7.565879	
11/17/2016	6.63	
3/23/2017	6.85	
5/3/2017	6.57	
8/4/2017	6.77 (D)	
1/25/2018	6.63 (D)	
6/20/2018	6.66	
10/2/2018	6.91	
1/22/2019	6.61	
6/25/2019	6.54	
9/12/2019	6.73	
3/12/2020		6.68

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
1/27/2016	5.88	
3/30/2016	6.01	
5/25/2016	5.52	
7/26/2016	6.066915	
9/15/2016	5.220961	
11/17/2016	5.05	
2/1/2017	5.5	
3/23/2017	5.41	
5/3/2017	5.71	
8/7/2017	5.03 (D)	
1/25/2018	5.64 (D)	
6/20/2018	5.05	
10/1/2018	5.59	
1/22/2019	5.72	
6/25/2019	5.49	
9/12/2019	4.92	
3/17/2020		5.63

Prediction Limit

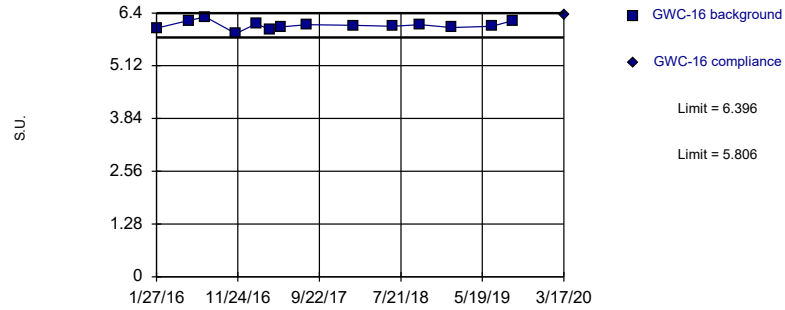
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
1/27/2016	6.67	
3/30/2016	6.7	
5/25/2016	6.52	
7/26/2016	6.719922	
9/20/2016	6.519229	
11/17/2016	6.54	
2/1/2017	6.56	
5/3/2017	6.5	
8/4/2017	6.55 (D)	
1/25/2018	6.45 (D)	
6/20/2018	7.24	
10/1/2018	6.5	
1/22/2019	6.48	
6/25/2019	6.43	
9/17/2019	6.54	
3/16/2020		6.58

Within Limits

Prediction Limit Intrawell Parametric

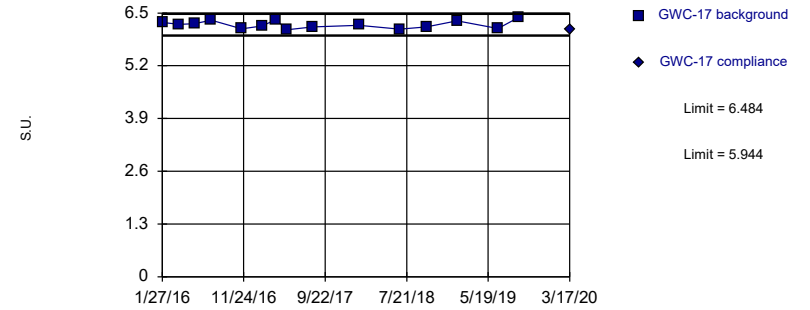


Background Data Summary: Mean=6.101, Std. Dev.=0.1015, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9744, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit Intrawell Parametric

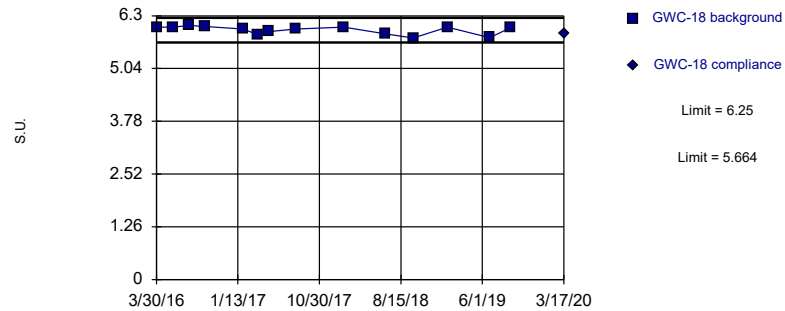


Background Data Summary: Mean=6.214, Std. Dev.=0.09511, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit Intrawell Parametric

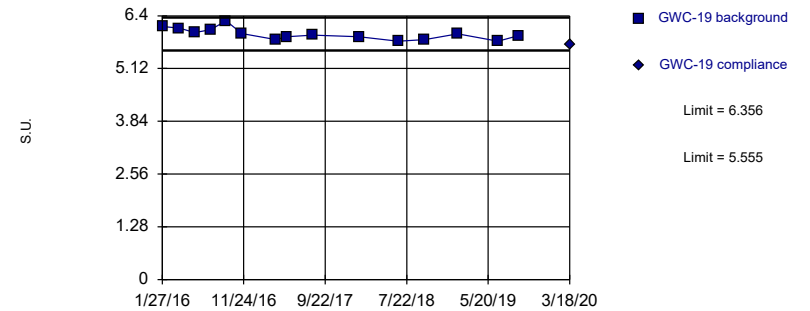


Background Data Summary: Mean=5.957, Std. Dev.=0.1008, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8424, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=5.955, Std. Dev.=0.1414, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9389, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
1/27/2016	6.03	
5/25/2016	6.22	
7/27/2016	6.30178	
9/16/2016	7.5561 (O)	
11/17/2016	5.9	
2/1/2017	6.14	
3/24/2017	5.99	
5/3/2017	6.06	
8/7/2017	6.12 (D)	
1/25/2018	6.1 (D)	
6/20/2018	6.08	
10/1/2018	6.12	
1/25/2019	6.05	
6/25/2019	6.08	
9/11/2019	6.22	
3/17/2020		6.35

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
1/27/2016	6.27	
3/30/2016	6.22	
5/25/2016	6.24	
7/27/2016	6.321385	
9/19/2016	7.948709 (O)	
11/17/2016	6.11	
2/1/2017	6.18	
3/24/2017	6.34	
5/3/2017	6.09	
8/7/2017	6.16 (D)	
1/25/2018	6.2 (D)	
6/26/2018	6.1	
10/2/2018	6.16	
1/24/2019	6.31	
6/25/2019	6.12	
9/11/2019	6.39	
3/17/2020		6.09

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
3/30/2016	6.03	
5/26/2016	6.03	
7/25/2016	6.066342	
9/19/2016	6.040669	
2/1/2017	5.98	
3/24/2017	5.85	
5/3/2017	5.92	
8/7/2017	5.98 (D)	
1/25/2018	6.03 (D)	
6/21/2018	5.87	
9/28/2018	5.77	
1/28/2019	6.03	
6/27/2019	5.78	
9/11/2019	6.02	
3/17/2020		5.88

Prediction Limit

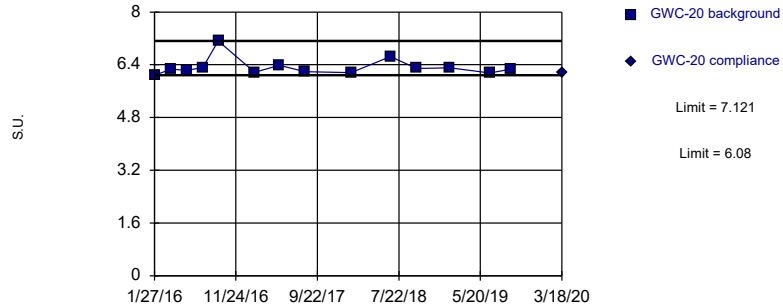
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
1/27/2016	6.14	
3/30/2016	6.1	
5/26/2016	5.99	
7/25/2016	6.063209	
9/19/2016	6.276656	
11/17/2016	5.97	
3/24/2017	5.82	
5/3/2017	5.89	
8/7/2017	5.93 (D)	
1/25/2018	5.89 (D)	
6/21/2018	5.78	
9/27/2018	5.82	
1/28/2019	5.96	
6/26/2019	5.78	
9/12/2019	5.92	
3/18/2020		5.71

Within Limits

Prediction Limit
Intrawell Non-parametric

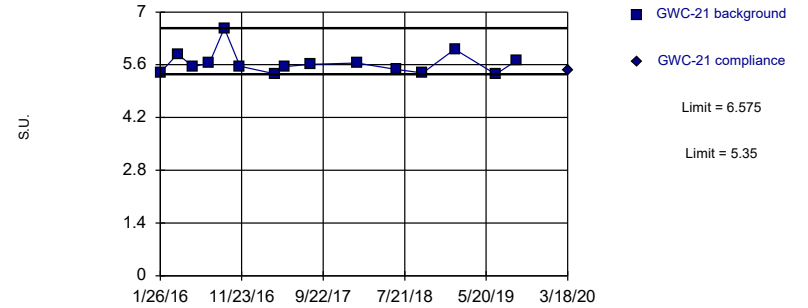


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

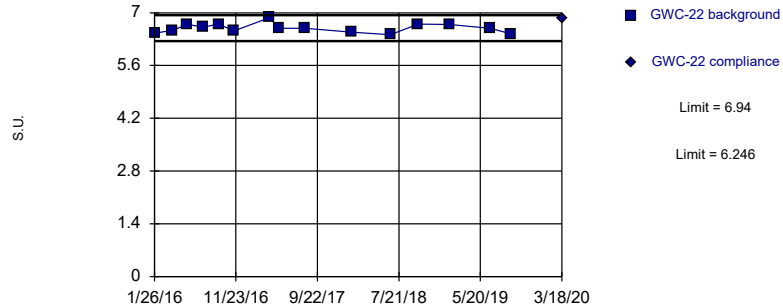


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

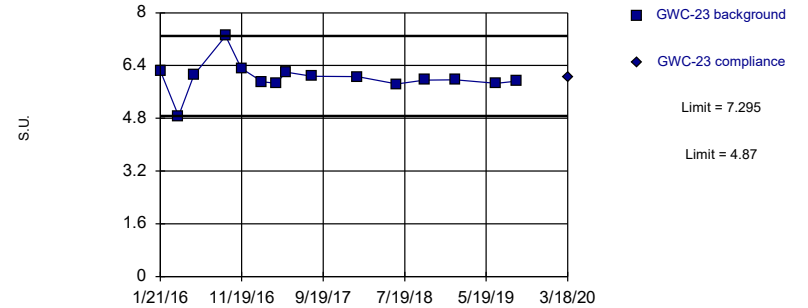


Background Data Summary: Mean=6.593, Std. Dev.=0.1223, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

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. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
1/27/2016	6.08	
3/30/2016	6.27	
5/26/2016	6.23	
7/25/2016	6.3145	
9/20/2016	7.120962	
2/2/2017	6.17	
5/4/2017	6.38	
8/7/2017	6.19 (D)	
1/26/2018	6.16 (D)	
6/21/2018	6.65	
9/27/2018	6.29	
1/28/2019	6.31	
6/25/2019	6.15	
9/11/2019	6.27	
3/18/2020		6.16

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
1/26/2016	5.39	
3/30/2016	5.88	
5/26/2016	5.55	
7/26/2016	5.64011	
9/20/2016	6.575025	
11/17/2016	5.56	
3/28/2017	5.36	
5/4/2017	5.55	
8/7/2017	5.61 (D)	
1/26/2018	5.65 (D)	
6/20/2018	5.48	
9/27/2018	5.38	
1/24/2019	6.01	
6/25/2019	5.35	
9/11/2019	5.71	
3/18/2020		5.45

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
1/26/2016	6.46	
3/31/2016	6.53	
5/26/2016	6.69	
7/26/2016	6.620398	
9/20/2016	6.696588	
11/17/2016	6.52	
3/28/2017	6.87	
5/3/2017	6.59	
8/8/2017	6.59 (D)	
1/25/2018	6.49 (D)	
6/20/2018	6.42	
10/1/2018	6.7	
1/24/2019	6.69	
6/25/2019	6.59	
9/10/2019	6.44	
3/18/2020		6.85

Prediction Limit

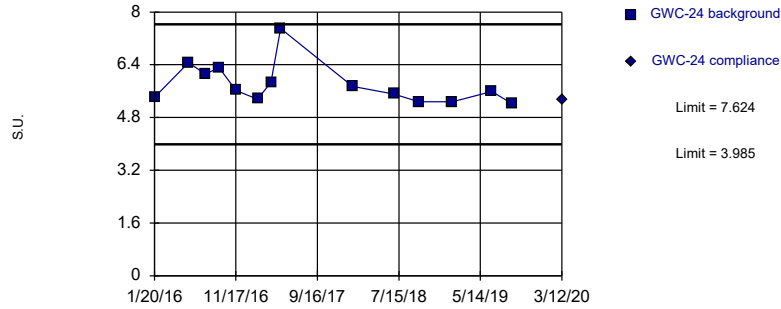
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
1/21/2016	6.24	
3/29/2016	4.87	
5/25/2016	6.11	
9/20/2016	7.295281	
11/18/2016	6.32	
2/3/2017	5.91	
3/28/2017	5.86	
5/4/2017	6.2	
8/8/2017	6.07 (D)	
1/25/2018	6.06 (D)	
6/20/2018	5.84	
10/1/2018	5.96	
1/25/2019	5.97	
6/26/2019	5.86	
9/12/2019	5.93	
3/18/2020		6.06

Within Limits

Prediction Limit
Intrawell Parametric

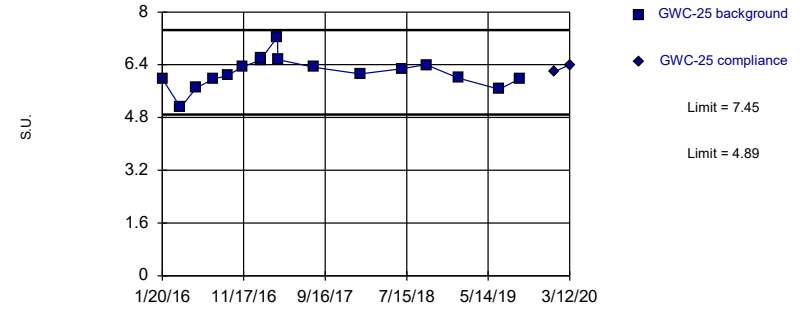


Background Data Summary: Mean=5.804, Std. Dev.=0.6258, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8325, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

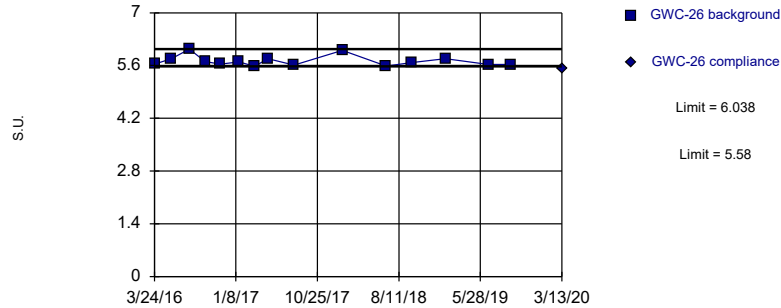


Background Data Summary: Mean=6.17, Std. Dev.=0.4699, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.959, critical = 0.851. Kappa = 2.724 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

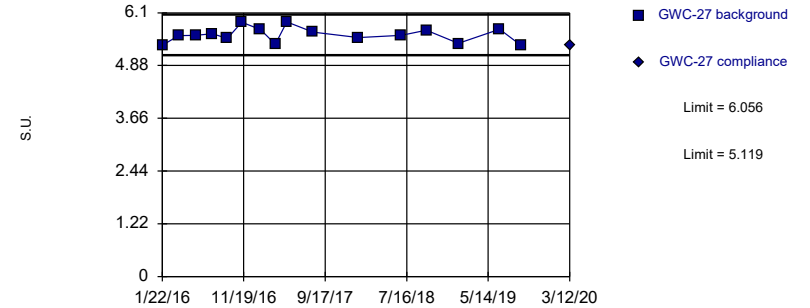


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.588, Std. Dev.=0.1696, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9402, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
1/20/2016	5.41	
5/25/2016	6.46	
7/27/2016	6.119047	
9/16/2016	6.310241	
11/18/2016	5.62	
2/6/2017	5.36	
3/28/2017	5.87	
5/3/2017	7.5	
1/25/2018	5.74 (D)	
6/27/2018	5.51	
9/28/2018	5.28	
1/31/2019	5.28	
6/26/2019	5.59	
9/11/2019	5.21	
3/12/2020		5.33

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
1/20/2016	5.98	
3/28/2016	5.1	
5/25/2016	5.7	
7/27/2016	5.966094	
9/19/2016	6.070052	
11/15/2016	6.35	
1/20/2017	6.54	
1/23/2017	6.59	
3/23/2017	7.25	
3/24/2017	6.56	
8/3/2017	6.33 (D)	
1/24/2018	6.12 (D)	
6/27/2018	6.28	
9/26/2018	6.4	
1/24/2019	6	
6/25/2019	5.66	
9/11/2019	5.99	
1/14/2020		6.18
3/12/2020		6.4

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
3/24/2016	5.64	
5/24/2016	5.78	
7/26/2016	6.038068	
9/20/2016	5.701864	
11/14/2016	5.64	
1/19/2017	5.7	
3/16/2017	5.58	
5/1/2017	5.78	
8/3/2017	5.61 (D)	
1/22/2018	6 (D)	
6/27/2018	5.59	
9/27/2018	5.68	
1/24/2019	5.78	
6/25/2019	5.63	
9/12/2019	5.63	
3/13/2020		5.52

Prediction Limit

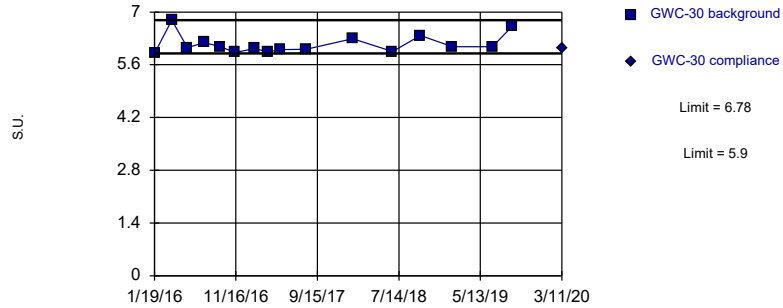
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
1/22/2016	5.35	
3/23/2016	5.57	
5/24/2016	5.58	
7/26/2016	5.614371	
9/19/2016	5.506855	
11/11/2016	5.88	
1/20/2017	5.71	
3/16/2017	5.37	
4/28/2017	5.89	
8/3/2017	5.65 (D)	
1/19/2018	5.53 (D)	
6/27/2018	5.58	
9/27/2018	5.7	
1/24/2019	5.39	
6/26/2019	5.72	
9/12/2019	5.36	
3/12/2020		5.36

Within Limits

Prediction Limit
Intrawell Non-parametric

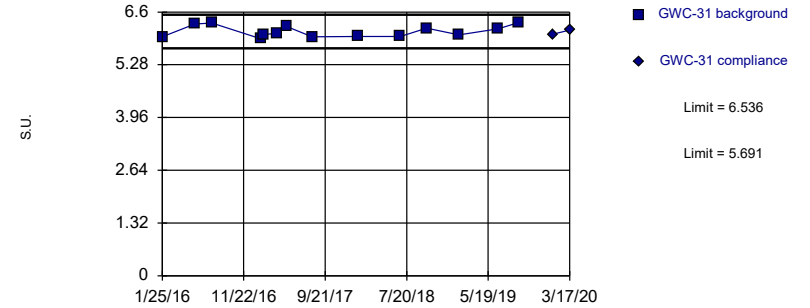


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

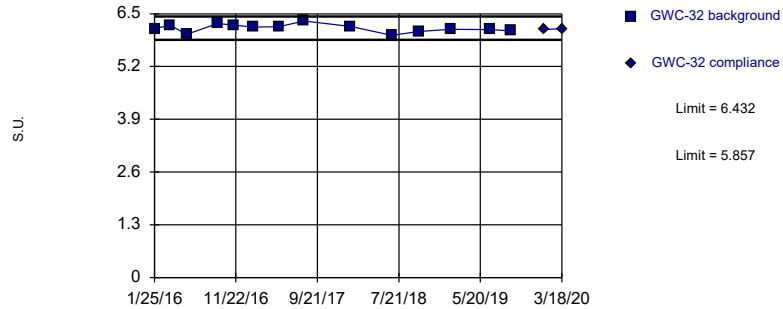


Background Data Summary: Mean=6.113, Std. Dev.=0.1454, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8799, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

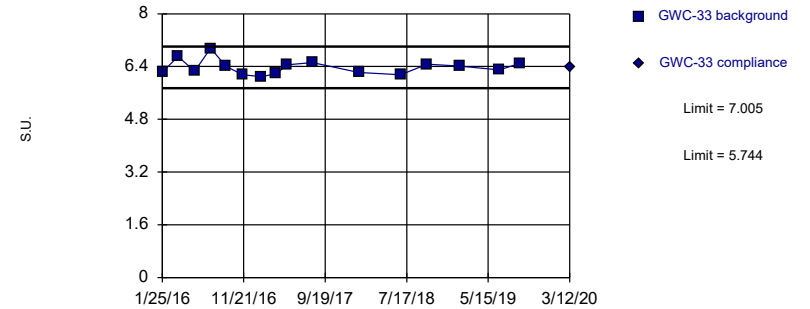


Background Data Summary: Mean=6.144, Std. Dev.=0.09892, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9812, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.375, Std. Dev.=0.2283, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9106, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
1/19/2016	5.9	
3/23/2016	6.78	
5/20/2016	6.05	
7/21/2016	6.188237	
9/20/2016	6.075727	
11/14/2016	5.93	
1/24/2017	6.03 (D)	
3/17/2017	5.94	
5/1/2017	6	
8/4/2017	6.01 (D)	
1/24/2018	6.29 (D)	
6/21/2018	5.95	
10/3/2018	6.38	
1/30/2019	6.08	
6/27/2019	6.08	
9/10/2019	6.63	
3/11/2020		6.04

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
1/25/2016	5.98	
5/25/2016	6.3	
7/27/2016	6.327805	
1/24/2017	5.93	
2/6/2017	6.04	
3/28/2017	6.06	
5/1/2017	6.24	
8/3/2017	5.98 (D)	
1/22/2018	5.99 (D)	
6/27/2018	5.99	
10/3/2018	6.2	
1/31/2019	6.03	
6/26/2019	6.18	
9/11/2019	6.34	
1/14/2020		6.04
3/17/2020		6.15

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
1/25/2016	6.13	
3/23/2016	6.22	
5/23/2016	5.99	
7/22/2016	7.552699 (O)	
9/16/2016	6.260319	
11/15/2016	6.22	
1/25/2017	6.17	
5/1/2017	6.18	
8/3/2017	6.32 (D)	
1/22/2018	6.19 (D)	
6/26/2018	5.97	
10/2/2018	6.06	
1/30/2019	6.12	
6/27/2019	6.11	
9/12/2019	6.08	
1/14/2020		6.11
3/18/2020		6.13

Prediction Limit

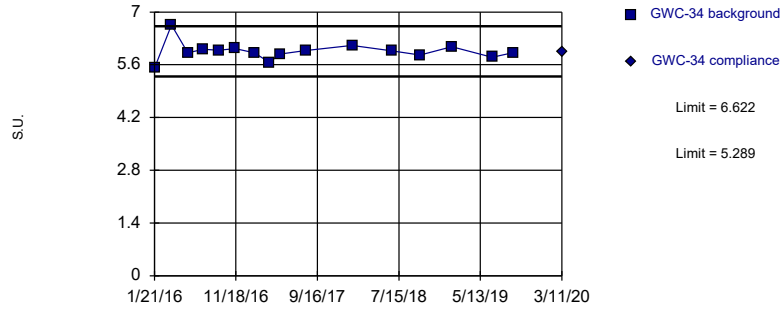
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
1/25/2016	6.23	
3/23/2016	6.7	
5/24/2016	6.26	
7/22/2016	6.956045	
9/16/2016	6.411956	
11/16/2016	6.15	
1/25/2017	6.09	
3/22/2017	6.18	
5/1/2017	6.45	
8/3/2017	6.52 (D)	
1/22/2018	6.22 (D)	
6/26/2018	6.15	
10/2/2018	6.47	
1/30/2019	6.41	
6/26/2019	6.3	
9/12/2019	6.5	
3/12/2020		6.37

Within Limits

Prediction Limit
Intrawell Parametric

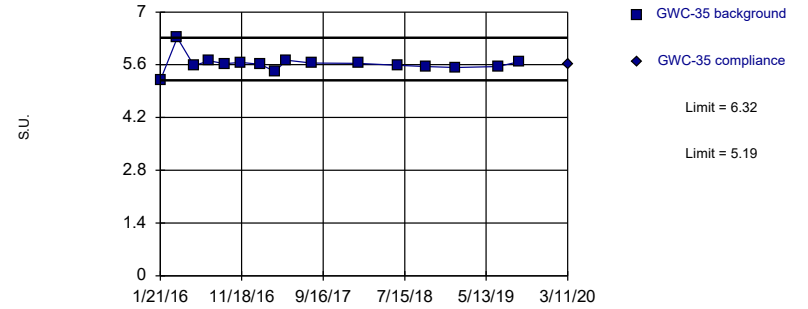


Background Data Summary: Mean=5.956, Std. Dev.=0.2414, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8509, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

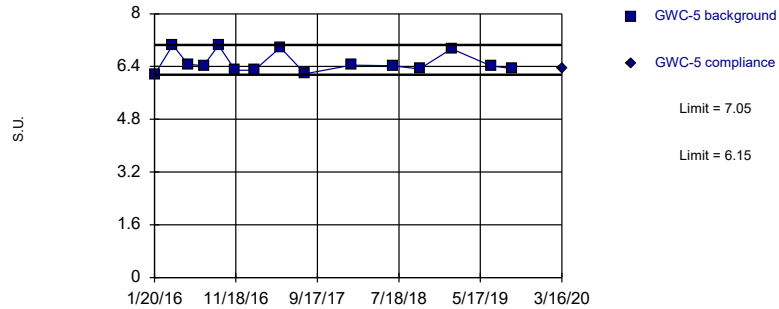


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

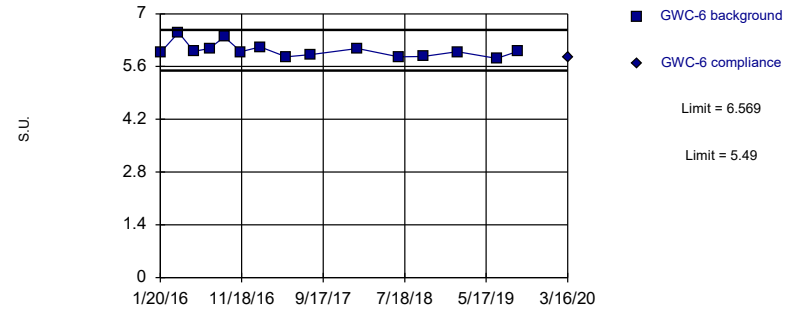


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.03, Std. Dev.=0.1904, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8396, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
1/21/2016	5.51	
3/24/2016	6.66	
5/23/2016	5.92	
7/21/2016	6.008569	
9/15/2016	5.982305	
11/15/2016	6.03	
1/25/2017	5.92	
3/22/2017	5.66	
5/1/2017	5.88	
8/3/2017	5.98 (D)	
1/23/2018	6.11 (D)	
6/20/2018	5.97	
10/2/2018	5.86	
1/28/2019	6.08	
6/26/2019	5.8	
9/11/2019	5.92	
3/11/2020		5.93

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
1/21/2016	5.19	
3/24/2016	6.32	
5/25/2016	5.58	
7/21/2016	5.701591	
9/15/2016	5.629095	
11/15/2016	5.66	
1/26/2017	5.61	
3/22/2017	5.42	
5/2/2017	5.72	
8/3/2017	5.65 (D)	
1/23/2018	5.64 (D)	
6/19/2018	5.59	
10/1/2018	5.55	
1/21/2019	5.53	
6/26/2019	5.55	
9/12/2019	5.68	
3/11/2020		5.62

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
1/20/2016	6.15	
3/28/2016	7.05	
5/23/2016	6.47	
7/21/2016	6.424029	
9/15/2016	7.042684	
11/15/2016	6.29	
1/26/2017	6.29	
5/2/2017	6.98	
8/3/2017	6.18 (D)	
1/23/2018	6.44 (D)	
6/25/2018	6.42	
10/3/2018	6.33	
1/30/2019	6.94	
6/26/2019	6.42	
9/12/2019	6.34	
3/16/2020		6.35

Prediction Limit

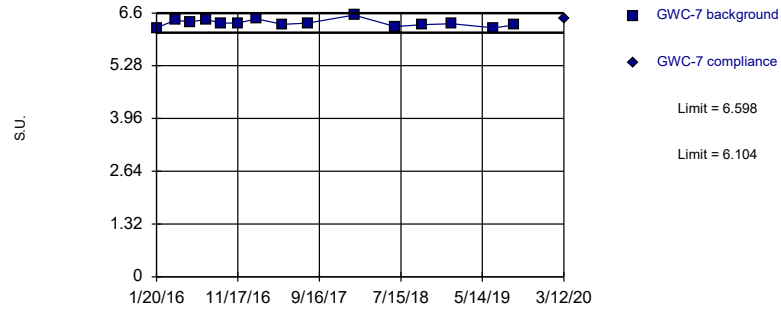
Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
1/20/2016	5.97	
3/28/2016	6.5	
5/24/2016	6	
7/21/2016	6.08222	
9/15/2016	6.383623	
11/16/2016	5.99	
1/26/2017	6.12	
5/2/2017	5.86	
8/3/2017	5.92 (D)	
1/23/2018	6.08 (D)	
6/25/2018	5.86	
9/25/2018	5.87	
1/30/2019	5.99	
6/26/2019	5.82	
9/12/2019	6	
3/16/2020		5.86

Within Limits

Prediction Limit
Intrawell Parametric

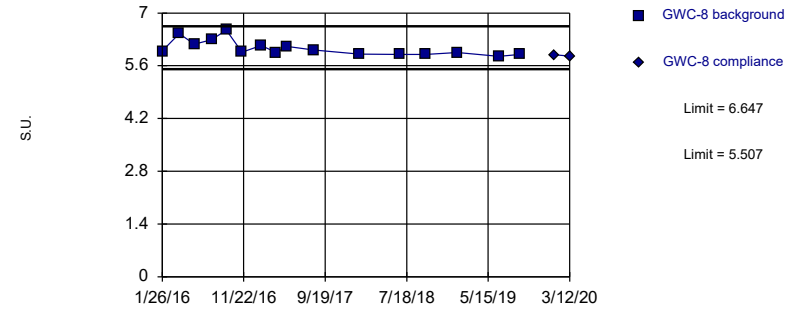


Background Data Summary: Mean=6.351, Std. Dev.=0.08699, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric

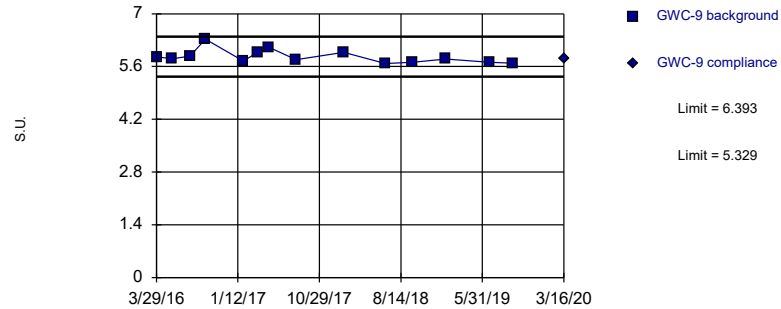


Background Data Summary (based on square root transformation): Mean=2.462, Std. Dev.=0.04189, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8455, critical = 0.844. Kappa = 2.762 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limits

Prediction Limit
Intrawell Parametric



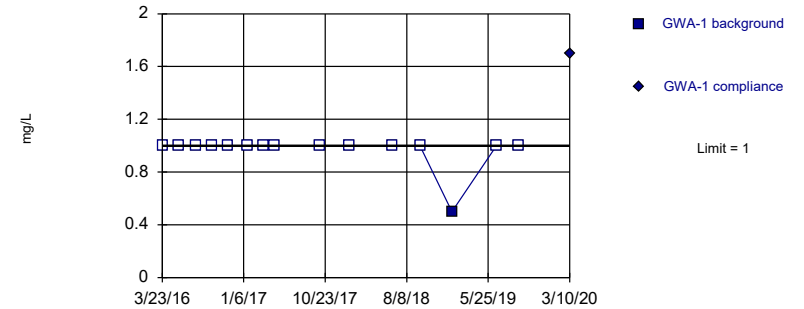
Background Data Summary: Mean=5.861, Std. Dev.=0.183, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8616, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: pH, Field Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Hollow symbols indicate censored values.

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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
1/20/2016	6.23	
3/29/2016	6.42	
5/24/2016	6.38	
7/22/2016	6.438562	
9/15/2016	6.347438	
11/16/2016	6.35	
1/26/2017	6.45	
5/2/2017	6.32	
8/4/2017	6.35 (D)	
1/23/2018	6.55 (D)	
6/25/2018	6.26	
10/2/2018	6.31	
1/21/2019	6.33	
6/25/2019	6.23	
9/10/2019	6.3	
3/12/2020		6.45

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
1/26/2016	5.99	
3/29/2016	6.45	
5/24/2016	6.17	
7/26/2016	6.291124	
9/19/2016	6.550086	
11/16/2016	5.96	
1/26/2017	6.14	
3/23/2017	5.95	
5/2/2017	6.11	
8/7/2017	6.02 (D)	
1/24/2018	5.91 (D)	
6/21/2018	5.9	
9/26/2018	5.9	
1/22/2019	5.95	
6/25/2019	5.85	
9/10/2019	5.9	
1/13/2020		5.89
3/12/2020		5.86

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
3/29/2016	5.86	
5/24/2016	5.81	
7/25/2016	5.876175	
9/19/2016	6.323668	
1/31/2017	5.75	
3/23/2017	5.97	
5/2/2017	6.11	
8/7/2017	5.78 (D)	
1/24/2018	5.98 (D)	
6/21/2018	5.68	
9/26/2018	5.71	
1/22/2019	5.8	
6/25/2019	5.71	
9/16/2019	5.69	
3/16/2020		5.8

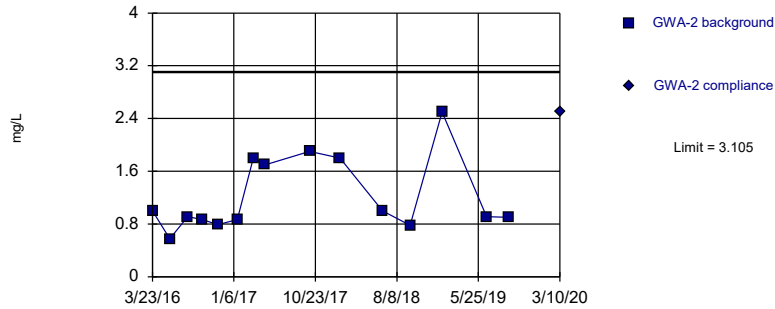
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
3/23/2016	<1	
5/20/2016	<1	
7/21/2016	<1	
9/15/2016	<1	
11/11/2016	<1	
1/19/2017	<1	
3/16/2017	<1	
4/28/2017	<1	
10/4/2017	<1	
1/19/2018	<1	
6/19/2018	<1	
9/25/2018	<1	
1/17/2019	0.5 (J)	
6/24/2019	<1	
9/9/2019	<1	
3/10/2020		1.7

Within Limit

Prediction Limit
Intrawell Parametric

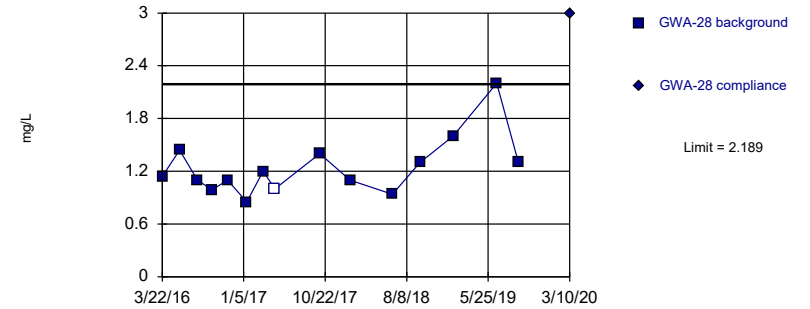


Background Data Summary (based on square root transformation): Mean=1.08, Std. Dev.=0.2406, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8573, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

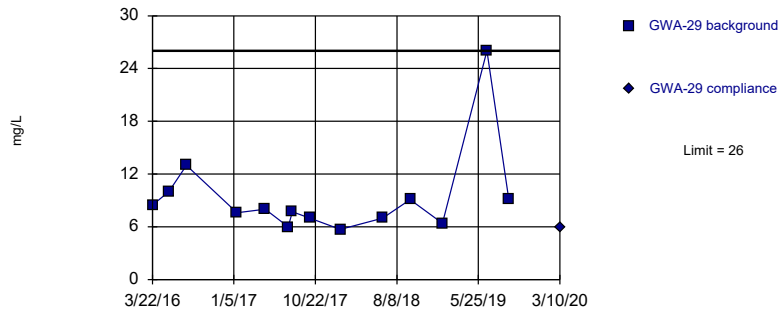


Background Data Summary: Mean=1.244, Std. Dev.=0.3334, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8497, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

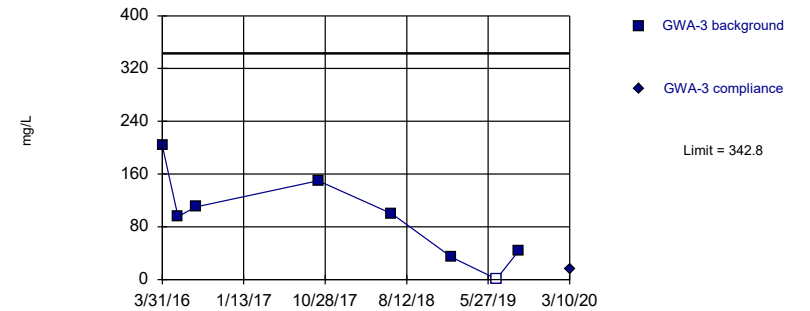


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=92.09, Std. Dev.=65.61, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.969, critical = 0.749. Kappa = 3.821 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
3/23/2016	1.001	
5/24/2016	0.576 (J)	
7/26/2016	0.91 (J)	
9/16/2016	0.87 (J)	
11/10/2016	0.79 (J)	
1/19/2017	0.87 (J)	
3/17/2017	1.8	
4/28/2017	1.7	
10/3/2017	1.9	
1/19/2018	1.8	
6/19/2018	1	
9/25/2018	0.78 (J)	
1/17/2019	2.5	
6/24/2019	0.91 (J)	
9/10/2019	0.9 (J)	
3/10/2020		2.5

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
3/22/2016	1.1423	
5/23/2016	1.44	
7/25/2016	1.1	
9/15/2016	0.99 (J)	
11/9/2016	1.1	
1/17/2017	0.85 (J)	
3/16/2017	1.2	
4/27/2017	<1	
10/3/2017	1.4	
1/19/2018	1.1	
6/19/2018	0.94 (J)	
9/25/2018	1.3	
1/21/2019	1.6	
6/25/2019	2.2	
9/10/2019	1.3	
3/10/2020		3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
3/22/2016	8.4662	
5/19/2016	10	
7/21/2016	13	
1/17/2017	7.6	
4/27/2017	8	
7/18/2017	6	
8/1/2017	7.7	
10/3/2017	7	
1/19/2018	5.7	
6/19/2018	7	
9/25/2018	9.1	
1/18/2019	6.4	
6/25/2019	26	
9/10/2019	9.2	
3/10/2020		6

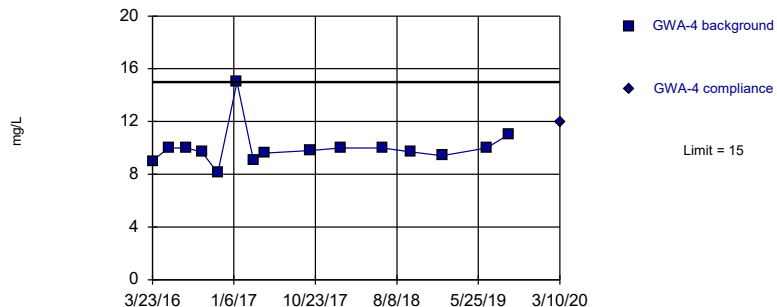
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
3/31/2016	202.982	
5/25/2016	95.7	
7/27/2016	110	
10/3/2017	150	
6/20/2018	100	
1/18/2019	34	
6/25/2019	<1	
9/11/2019	43	
3/10/2020		16

Within Limit

Prediction Limit Intrawell Non-parametric

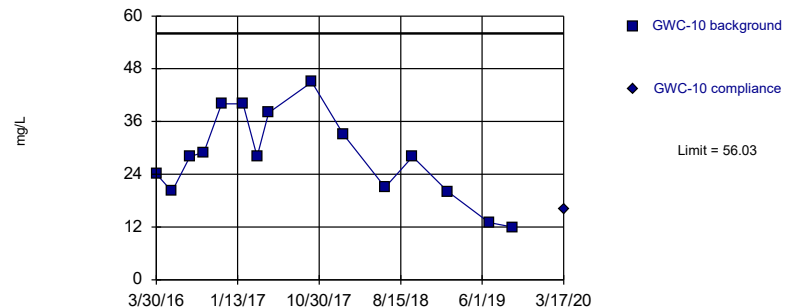


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Parametric

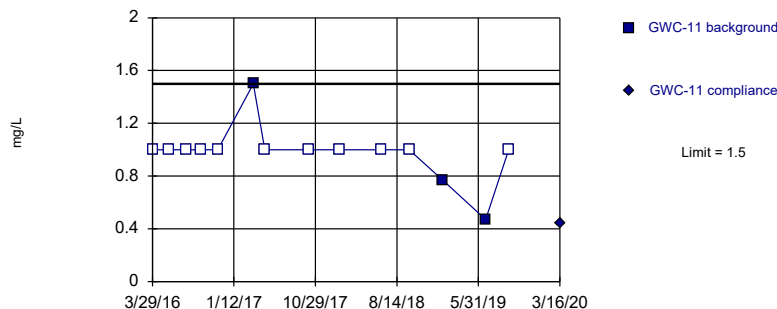


Background Data Summary: Mean=27.94, Std. Dev.=9.91, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9601, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

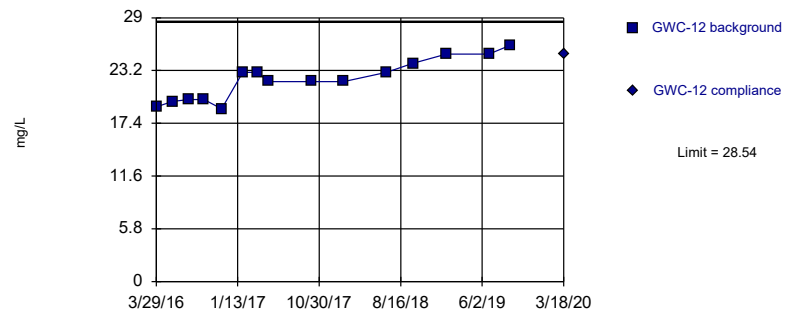


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=22.2, Std. Dev.=2.238, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
3/23/2016	9.0208	
5/19/2016	10	
7/21/2016	10	
9/14/2016	9.7	
11/10/2016	8.1	
1/17/2017	15	
3/16/2017	9.1	
4/27/2017	9.6	
10/3/2017	9.8	
1/22/2018	10	
6/19/2018	10	
9/25/2018	9.7	
1/17/2019	9.4	
6/24/2019	10	
9/10/2019	11	
3/10/2020		12

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
3/30/2016	24.0688	
5/25/2016	20.1	
7/27/2016	28	
9/16/2016	29	
11/17/2016	40	
2/1/2017	40	
3/24/2017	28	
5/3/2017	38	
10/4/2017	45	
1/25/2018	33	
6/21/2018	21	
9/27/2018	28	
1/31/2019	20	
6/26/2019	13	
9/17/2019	12	
3/17/2020		16

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
3/29/2016	<1	
5/25/2016	<1	
7/25/2016	<1	
9/19/2016	<1	
11/16/2016	<1	
1/31/2017	3.7 (o)	
3/23/2017	1.5	
5/2/2017	<1	
10/4/2017	<1	
1/24/2018	<1	
6/20/2018	<1	
9/27/2018	<1	
1/24/2019	0.77 (J)	
6/26/2019	0.47 (J)	
9/16/2019	<1	
3/16/2020		0.44 (J)

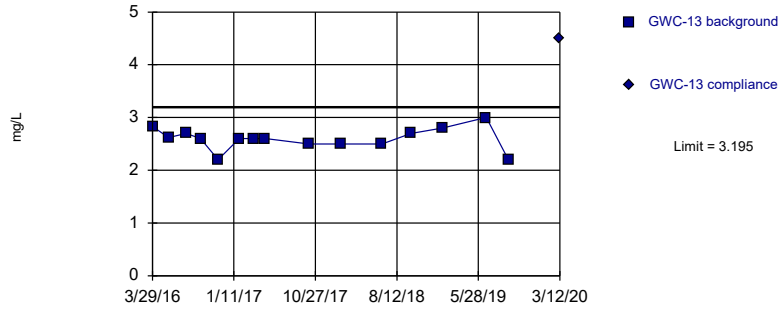
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
3/29/2016	19.1889	
5/25/2016	19.8	
7/22/2016	20	
9/15/2016	20	
11/16/2016	19	
1/31/2017	23	
3/23/2017	23	
5/3/2017	22	
10/4/2017	22	
1/24/2018	22	
6/26/2018	23	
9/28/2018	24	
1/25/2019	25	
6/26/2019	25	
9/11/2019	26	
3/18/2020		25

Exceeds Limit

Prediction Limit
Intrawell Parametric

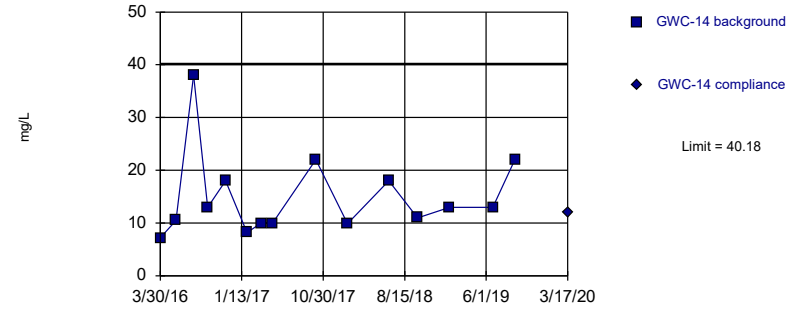


Background Data Summary: Mean=2.597, Std. Dev.=0.2111, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9308, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

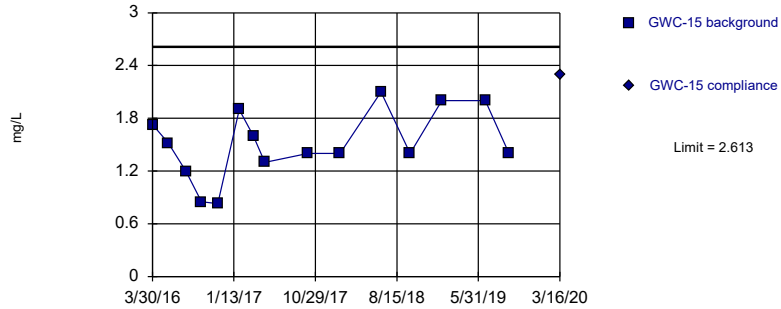


Background Data Summary (based on square root transformation): Mean=3.761, Std. Dev.=0.9091, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8716, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

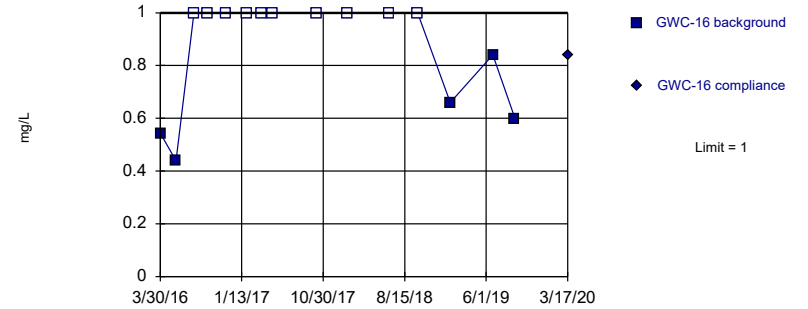


Background Data Summary: Mean=1.509, Std. Dev.=0.3894, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
3/29/2016	2.8316	
5/25/2016	2.62	
7/26/2016	2.7	
9/15/2016	2.6	
11/17/2016	2.2	
1/31/2017	2.6	
3/23/2017	2.6	
5/3/2017	2.6	
10/5/2017	2.5	
1/25/2018	2.5	
6/20/2018	2.5	
10/2/2018	2.7	
1/22/2019	2.8	
6/25/2019	3	
9/12/2019	2.2	
3/12/2020		4.5

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
3/30/2016	7.2023	
5/25/2016	10.5	
7/26/2016	38	
9/15/2016	13	
11/17/2016	18	
2/1/2017	8.2	
3/23/2017	10	
5/3/2017	10	
10/4/2017	22	
1/25/2018	9.9	
6/20/2018	18	
10/1/2018	11	
1/22/2019	13	
6/25/2019	13	
9/12/2019	22	
3/17/2020		12

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
3/30/2016	1.7296	
5/25/2016	1.52	
7/26/2016	1.2	
9/20/2016	0.85 (J)	
11/17/2016	0.83 (J)	
2/1/2017	1.9	
3/23/2017	1.6	
5/3/2017	1.3	
10/4/2017	1.4	
1/25/2018	1.4	
6/20/2018	2.1	
10/1/2018	1.4	
1/22/2019	2	
6/25/2019	2	
9/17/2019	1.4	
3/16/2020		2.3

Prediction Limit

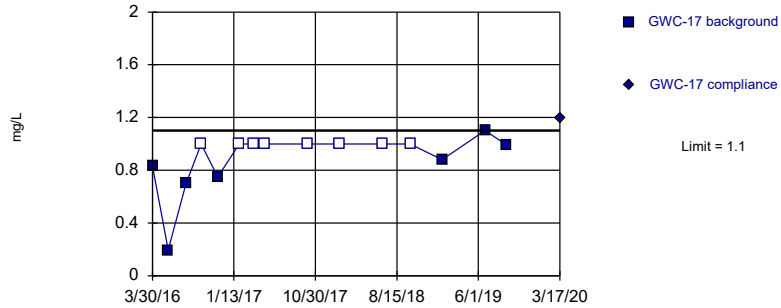
Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
3/30/2016	0.5433 (J)	
5/25/2016	0.4393 (J)	
7/27/2016	<1	
9/16/2016	<1	
11/17/2016	<1	
2/1/2017	<1	
3/24/2017	<1	
5/3/2017	<1	
10/5/2017	<1	
1/25/2018	<1	
6/20/2018	<1	
10/1/2018	<1	
1/25/2019	0.66 (J)	
6/25/2019	0.84 (J)	
9/11/2019	0.6 (J)	
3/17/2020		0.84 (J)

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

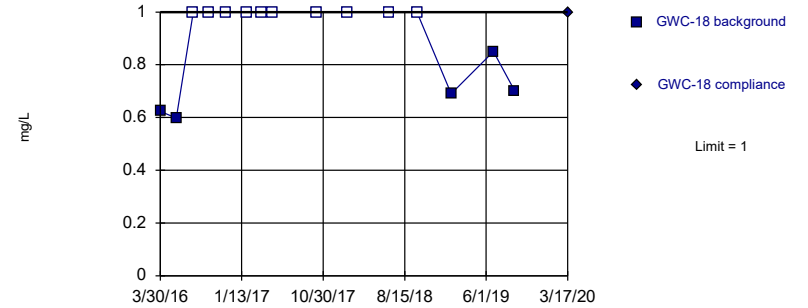


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

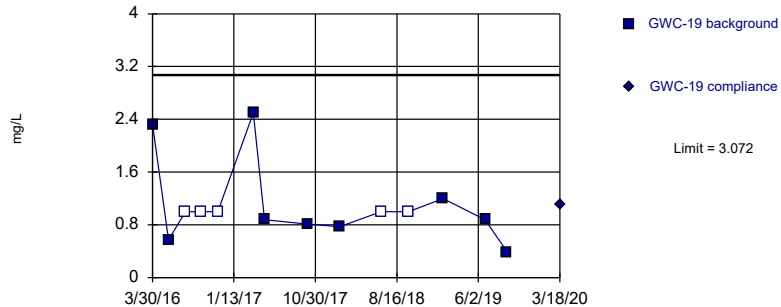


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

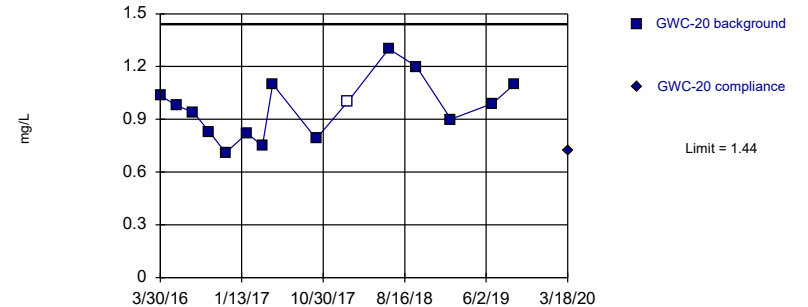


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.9401, Std. Dev.=0.2795, n=14, 35.71% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.831, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.963, Std. Dev.=0.1684, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
3/30/2016	0.8313 (J)	
5/25/2016	0.195 (J)	
7/27/2016	0.7 (J)	
9/19/2016	<1	
11/17/2016	0.75 (J)	
2/1/2017	<1	
3/24/2017	<1	
5/3/2017	<1	
10/4/2017	<1	
1/25/2018	<1	
6/26/2018	<1	
10/2/2018	<1	
1/24/2019	0.88 (J)	
6/25/2019	1.1	
9/11/2019	0.99 (J)	
3/17/2020		1.2

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
3/30/2016	0.6239 (J)	
5/26/2016	0.598 (J)	
7/25/2016	<1	
9/19/2016	<1	
11/17/2016	<1	
2/1/2017	<1	
3/24/2017	<1	
5/3/2017	<1	
10/5/2017	<1	
1/25/2018	<1	
6/21/2018	<1	
9/28/2018	<1	
1/28/2019	0.69 (J)	
6/27/2019	0.85 (J)	
9/11/2019	0.7 (J)	
3/17/2020		1

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
3/30/2016	2.3237	
5/26/2016	0.574 (J)	
7/25/2016	<1	
9/19/2016	<1	
11/17/2016	<1	
3/24/2017	2.5	
5/3/2017	0.88 (J)	
10/5/2017	0.81 (J)	
1/25/2018	0.77 (J)	
6/21/2018	<1	
9/27/2018	<1	
1/28/2019	1.2	
6/26/2019	0.88 (J)	
9/12/2019	0.39 (J)	
3/18/2020		1.1

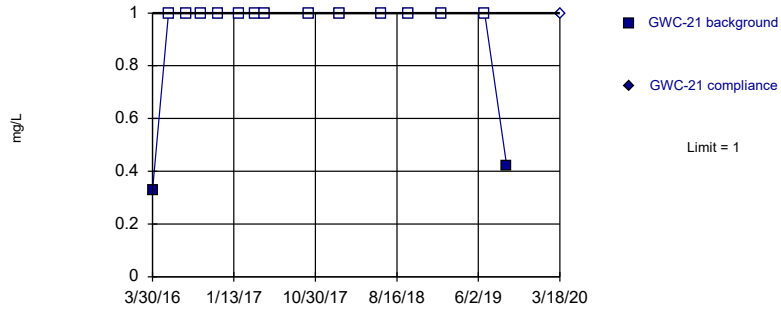
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
3/30/2016	1.0356	
5/26/2016	0.979 (J)	
7/25/2016	0.94 (J)	
9/20/2016	0.83 (J)	
11/17/2016	0.71 (J)	
2/2/2017	0.82 (J)	
3/28/2017	0.75 (J)	
5/4/2017	1.1	
10/6/2017	0.79 (J)	
1/26/2018	<1	
6/21/2018	1.3	
9/27/2018	1.2	
1/28/2019	0.9 (J)	
6/25/2019	0.99 (J)	
9/11/2019	1.1	
3/18/2020		0.72 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

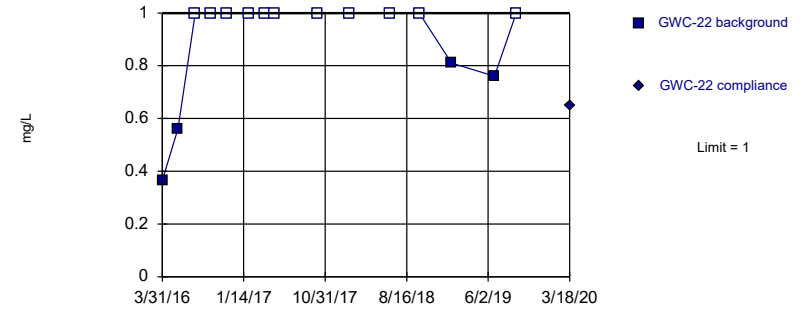


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

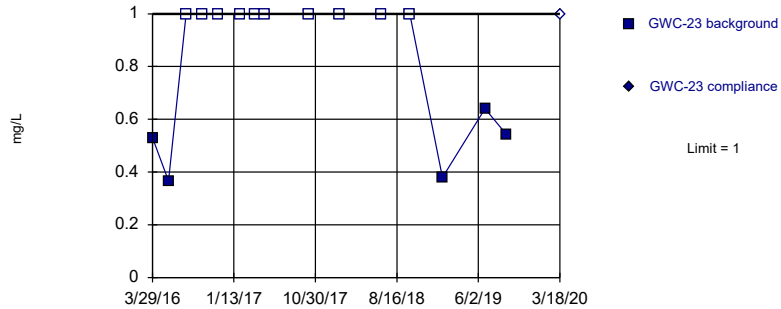


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

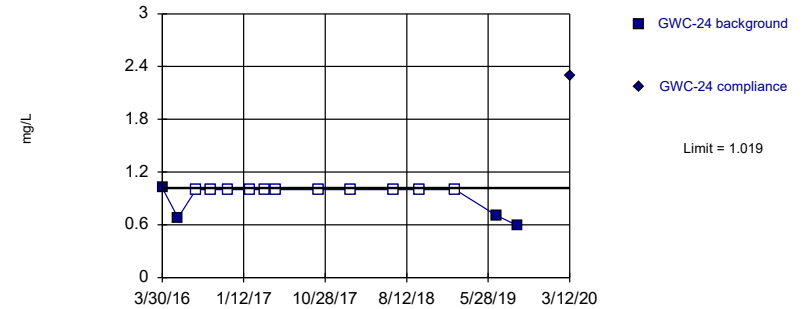


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

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 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
3/30/2016	0.3269 (J)	
5/26/2016	<1	
7/26/2016	<1	
9/20/2016	<1	
11/17/2016	<1	
2/2/2017	<1	
3/28/2017	<1	
5/4/2017	<1	
10/6/2017	<1	
1/26/2018	<1	
6/20/2018	<1	
9/27/2018	<1	
1/24/2019	<1	
6/25/2019	<1	
9/11/2019	0.42 (J)	
3/18/2020		<1

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
3/31/2016	0.3648 (J)	
5/26/2016	0.562 (J)	
7/26/2016	<1	
9/20/2016	<1	
11/17/2016	<1	
2/3/2017	<1	
3/28/2017	<1	
5/3/2017	<1	
10/5/2017	<1	
1/25/2018	<1	
6/20/2018	<1	
10/1/2018	<1	
1/24/2019	0.81 (J)	
6/25/2019	0.76 (J)	
9/10/2019	<1	
3/18/2020		0.65 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
3/29/2016	0.5302 (J)	
5/25/2016	0.3659 (J)	
7/27/2016	<1	
9/20/2016	<1	
11/18/2016	<1	
2/3/2017	<1	
3/28/2017	<1	
5/4/2017	<1	
10/5/2017	<1	
1/25/2018	<1	
6/20/2018	<1	
10/1/2018	<1	
1/25/2019	0.38 (J)	
6/26/2019	0.64 (J)	
9/12/2019	0.54 (J)	
3/18/2020		<1

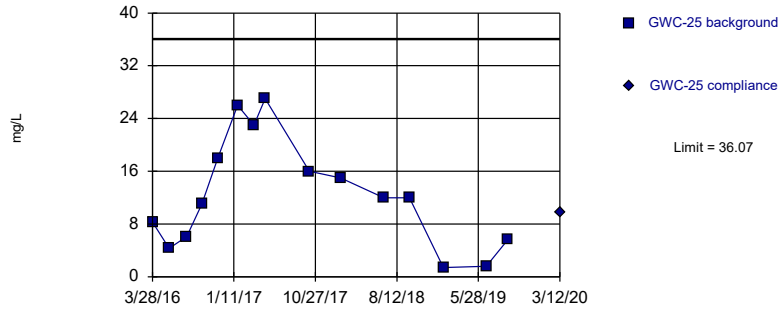
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
3/30/2016	1.0189	
5/25/2016	0.6811 (J)	
7/27/2016	<1	
9/16/2016	<1	
11/18/2016	<1	
2/3/2017	<1	
3/29/2017	<1	
5/4/2017	<1	
10/5/2017	<1	
1/25/2018	<1	
6/27/2018	<1	
9/28/2018	<1	
1/31/2019	<1	
6/26/2019	0.71 (J)	
9/11/2019	0.59 (J)	
3/12/2020		2.3

Within Limit

Prediction Limit
Intrawell Parametric

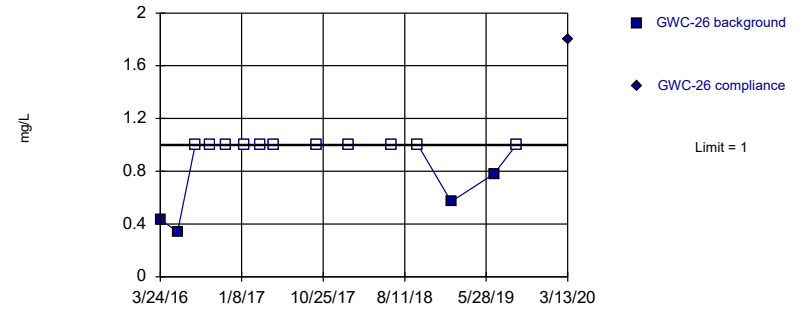


Background Data Summary: Mean=12.5, Std. Dev.=8.315, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9418, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

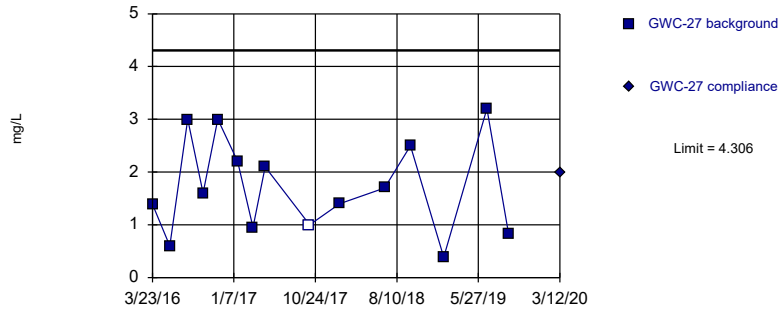


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

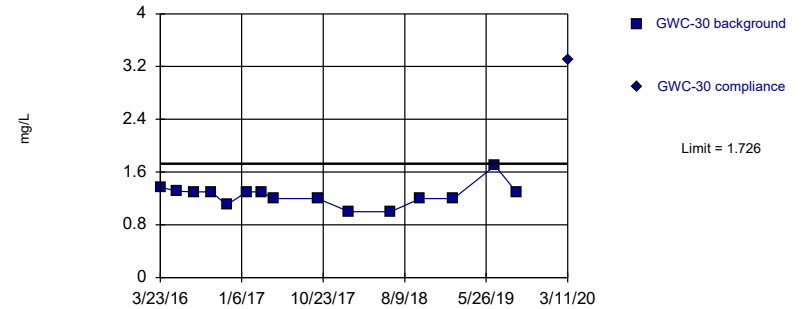


Background Data Summary: Mean=1.723, Std. Dev.=0.9113, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.252, Std. Dev.=0.1671, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8649, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
3/28/2016	8.3151	
5/26/2016	4.31	
7/27/2016	6.1	
9/19/2016	11	
11/15/2016	18	
1/24/2017	26	
3/23/2017	23	
5/2/2017	27	
10/5/2017	16	
1/25/2018	15	
6/27/2018	12	
9/26/2018	12	
1/24/2019	1.4	
6/25/2019	1.6	
9/11/2019	5.7	
3/12/2020		9.7

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
3/24/2016	0.4337 (J)	
5/25/2016	0.3421 (J)	
7/26/2016	<1	
9/19/2016	<1	
11/14/2016	<1	
1/19/2017	<1	
3/16/2017	<1	
5/1/2017	<1	
10/4/2017	<1	
1/22/2018	<1	
6/27/2018	<1	
9/27/2018	<1	
1/24/2019	0.57 (J)	
6/25/2019	0.78 (J)	
9/12/2019	<1	
3/13/2020		1.8

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
3/23/2016	1.3897	
5/24/2016	0.598 (J)	
7/26/2016	3	
9/19/2016	1.6	
11/11/2016	3	
1/20/2017	2.2	
3/16/2017	0.95 (J)	
4/28/2017	2.1	
10/3/2017	<1	
1/19/2018	1.4	
6/27/2018	1.7	
9/27/2018	2.5	
1/24/2019	0.39 (J)	
6/26/2019	3.2	
9/12/2019	0.82 (J)	
3/12/2020		2

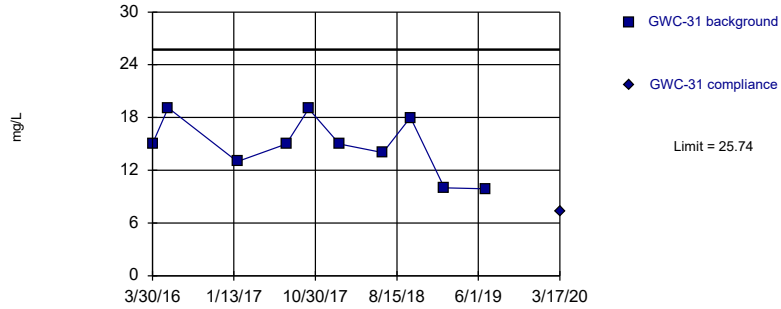
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
3/23/2016	1.3729	
5/20/2016	1.31	
7/21/2016	1.3	
9/20/2016	1.3	
11/14/2016	1.1	
1/24/2017	1.3	
3/17/2017	1.3	
5/1/2017	1.2	
10/4/2017	1.2	
1/24/2018	1	
6/21/2018	1	
10/3/2018	1.2	
1/30/2019	1.2	
6/27/2019	1.7	
9/10/2019	1.3	
3/11/2020		3.3

Within Limit

Prediction Limit
Intrawell Parametric

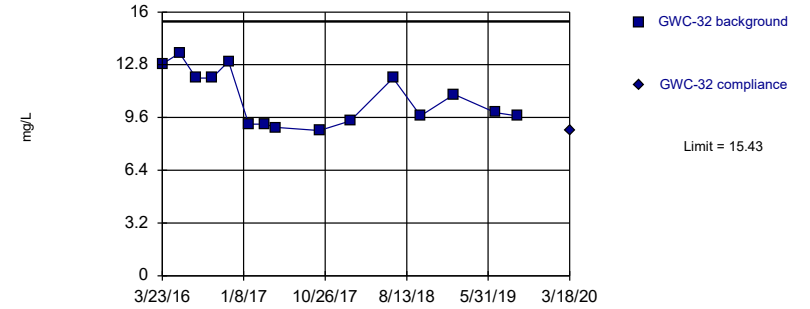


Background Data Summary: Mean=14.8, Std. Dev.=3.29, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.781. Kappa = 3.324 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:29 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

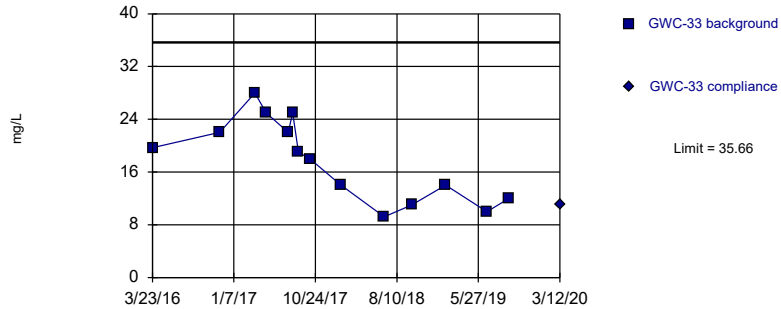


Background Data Summary: Mean=10.75, Std. Dev.=1.652, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8775, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

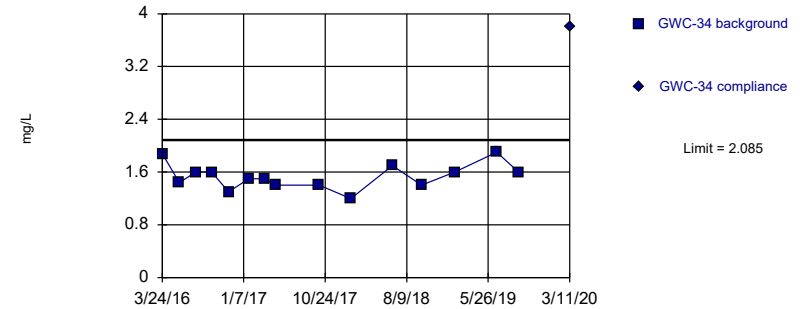


Background Data Summary: Mean=17.78, Std. Dev.=6.15, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9424, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.535, Std. Dev.=0.1943, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
3/30/2016	15.0114	
5/25/2016	19.1	
1/25/2017	13	
7/19/2017	15	
10/6/2017	19	
1/23/2018	15	
6/27/2018	14	
10/3/2018	18	
1/31/2019	10	
6/26/2019	9.9	
3/17/2020		7.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
3/23/2016	12.8473	
5/24/2016	13.5	
7/22/2016	12	
9/16/2016	12	
11/15/2016	13	
1/26/2017	9.2	
3/24/2017	9.2	
5/2/2017	9	
10/6/2017	8.8	
1/23/2018	9.4	
6/26/2018	12	
10/2/2018	9.7	
1/30/2019	11	
6/27/2019	9.9	
9/12/2019	9.7	
3/18/2020		8.8

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
3/23/2016	19.6956	
11/17/2016	22	
1/25/2017	50 (o)	
3/23/2017	28	
5/1/2017	25	
7/19/2017	22	
8/4/2017	25	
8/24/2017	19	
10/5/2017	18	
1/23/2018	14	
6/26/2018	9.2	
10/2/2018	11	
1/30/2019	14	
6/26/2019	10	
9/12/2019	12	
3/12/2020		11

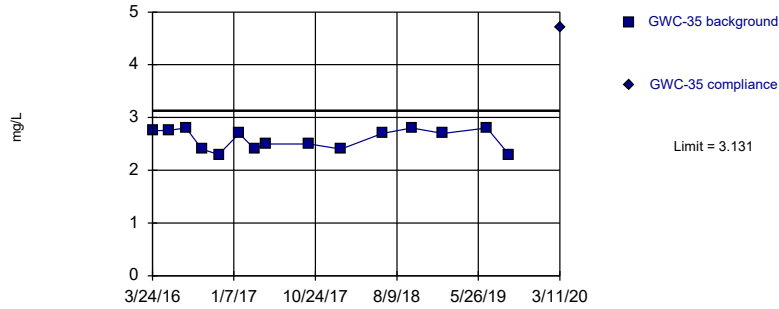
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
3/24/2016	1.8782	
5/23/2016	1.44	
7/21/2016	1.6	
9/15/2016	1.6	
11/15/2016	1.3	
1/25/2017	1.5	
3/22/2017	1.5	
5/1/2017	1.4	
10/3/2017	1.4	
1/23/2018	1.2	
6/20/2018	1.7	
10/2/2018	1.4	
1/28/2019	1.6	
6/26/2019	1.9	
9/11/2019	1.6	
3/11/2020		3.8

Exceeds Limit

Prediction Limit
Intrawell Parametric

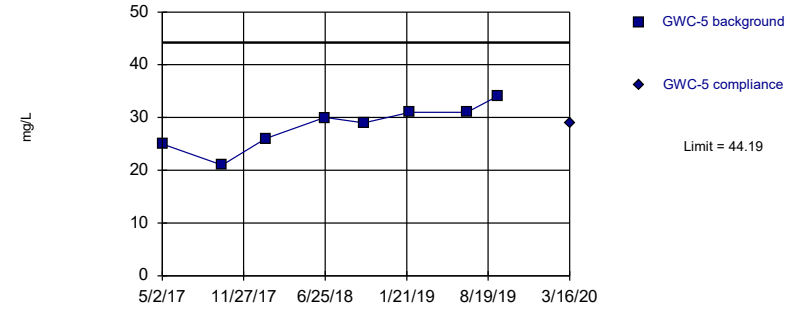


Background Data Summary: Mean=2.587, Std. Dev.=0.1918, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8548, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

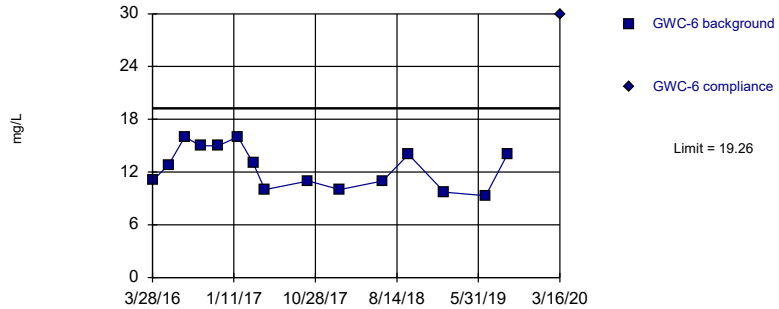


Background Data Summary: Mean=28.38, Std. Dev.=4.138, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.749. Kappa = 3.821 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

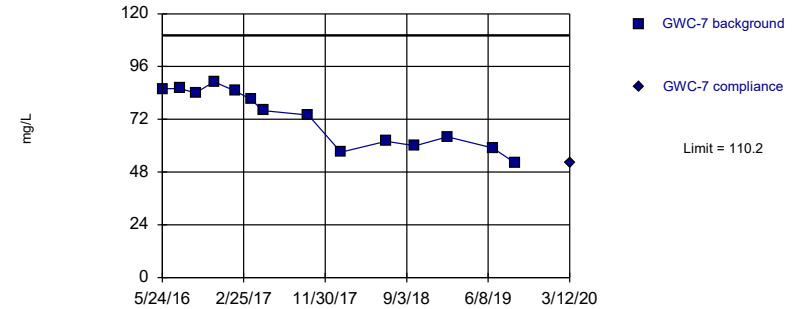


Background Data Summary: Mean=12.52, Std. Dev.=2.376, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=72.49, Std. Dev.=12.97, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8912, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
3/24/2016	2.7482	
5/23/2016	2.76	
7/21/2016	2.8	
9/15/2016	2.4	
11/15/2016	2.3	
1/26/2017	2.7	
3/22/2017	2.4	
5/2/2017	2.5	
10/3/2017	2.5	
1/23/2018	2.4	
6/19/2018	2.7	
10/1/2018	2.8	
1/21/2019	2.7	
6/26/2019	2.8	
9/12/2019	2.3	
3/11/2020		4.7

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
3/28/2016	19.9405	
5/23/2016	21	
7/21/2016	17	
9/15/2016	16	
11/15/2016	15	
1/26/2017	13	
3/22/2017	13	
5/2/2017	25	
10/3/2017	21	
1/23/2018	26	
6/25/2018	30	
10/3/2018	29	
1/30/2019	31	
6/26/2019	31	
9/12/2019	34	
3/16/2020		29

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
3/28/2016	11.0351	
5/24/2016	12.8	
7/21/2016	16	
9/15/2016	15	
11/16/2016	15	
1/26/2017	16	
3/22/2017	13	
5/2/2017	10	
10/3/2017	11	
1/23/2018	10	
6/25/2018	11	
9/25/2018	14	
1/30/2019	9.7	
6/26/2019	9.3	
9/12/2019	14	
3/16/2020		30

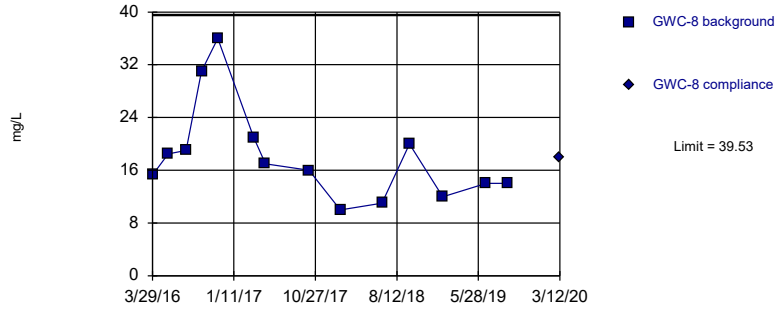
Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Inrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
3/29/2016	22.385 (JO)	
5/24/2016	85.8	
7/22/2016	86	
9/15/2016	84	
11/16/2016	89	
1/26/2017	85	
3/22/2017	81	
5/2/2017	76	
10/3/2017	74	
1/23/2018	57	
6/25/2018	62	
10/2/2018	60	
1/21/2019	64	
6/25/2019	59	
9/10/2019	52	
3/12/2020		52

Within Limit

Prediction Limit
Intrawell Parametric

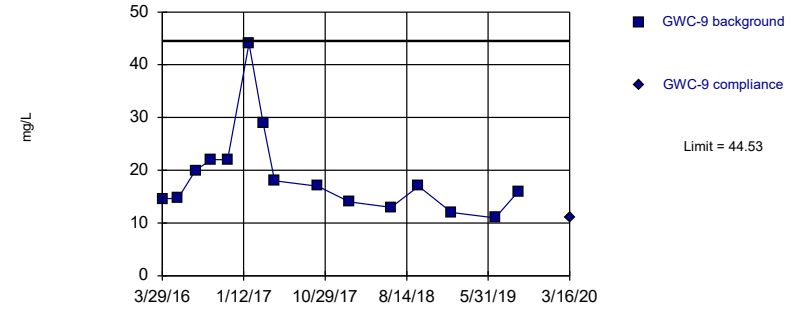


Background Data Summary: Mean=18.2, Std. Dev.=7.338, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8547, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

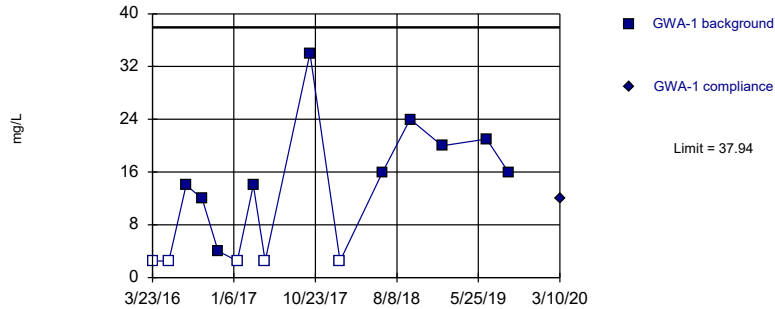


Background Data Summary (based on square root transformation): Mean=4.276, Std. Dev.=0.8455, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8526, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

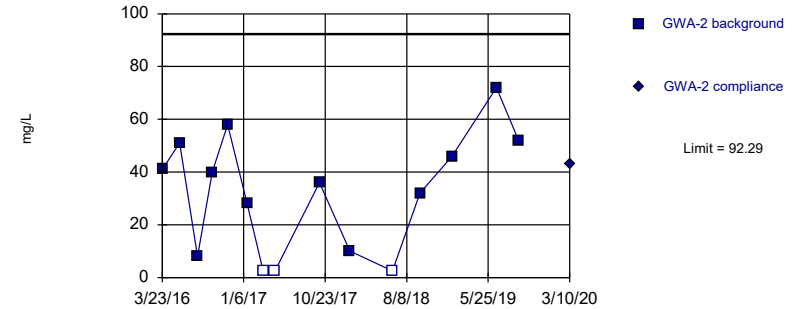


Background Data Summary (after Kaplan-Meier Adjustment): Mean=11.75, Std. Dev.=9.238, n=15, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8832, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=32.6, Std. Dev.=21.06, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.925, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
3/29/2016	15.2958	
5/24/2016	18.5	
7/26/2016	19	
9/19/2016	31	
11/16/2016	36	
1/26/2017	49 (o)	
3/23/2017	21	
5/3/2017	17	
10/5/2017	16	
1/24/2018	10	
6/21/2018	11	
9/26/2018	20	
1/22/2019	12	
6/25/2019	14	
9/10/2019	14	
3/12/2020		18

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
3/29/2016	14.6203	
5/24/2016	14.7	
7/25/2016	20	
9/19/2016	22	
11/16/2016	22	
1/31/2017	44	
3/23/2017	29	
5/2/2017	18	
10/3/2017	17	
1/24/2018	14	
6/21/2018	13	
9/26/2018	17	
1/22/2019	12	
6/25/2019	11	
9/16/2019	16	
3/16/2020		11

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-1	GWA-1
3/23/2016	<5	
5/20/2016	<5	
7/21/2016	14	
9/15/2016	12	
11/11/2016	4 (J)	
1/19/2017	<5	
3/16/2017	14	
4/28/2017	<5	
10/4/2017	34	
1/19/2018	<5	
6/19/2018	16	
9/25/2018	24	
1/17/2019	20	
6/24/2019	21	
9/9/2019	16	
3/10/2020		12

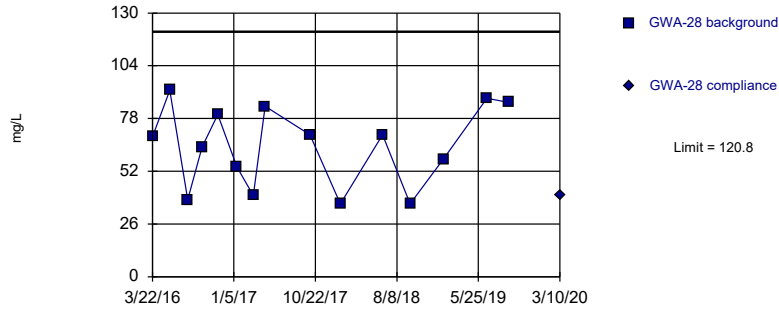
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-2	GWA-2
3/23/2016	41	
5/24/2016	51	
7/26/2016	8	
9/16/2016	40	
11/10/2016	58	
1/19/2017	28	
3/17/2017	<5	
4/28/2017	<5	
10/3/2017	36	
1/19/2018	10	
6/19/2018	<5	
9/25/2018	32	
1/17/2019	46	
6/24/2019	72	
9/10/2019	52	
3/10/2020		43

Within Limit

Prediction Limit
Intrawell Parametric

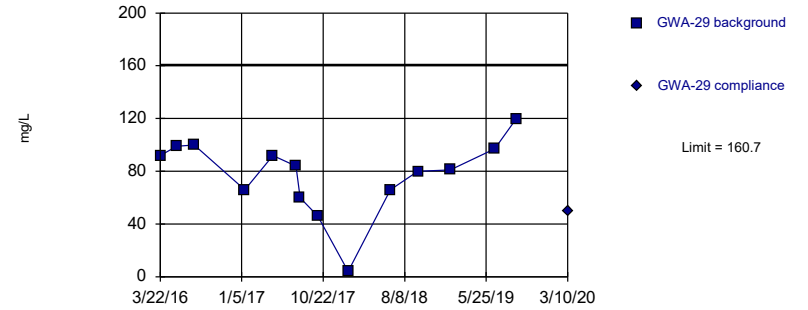


Background Data Summary: Mean=64.33, Std. Dev.=19.91, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

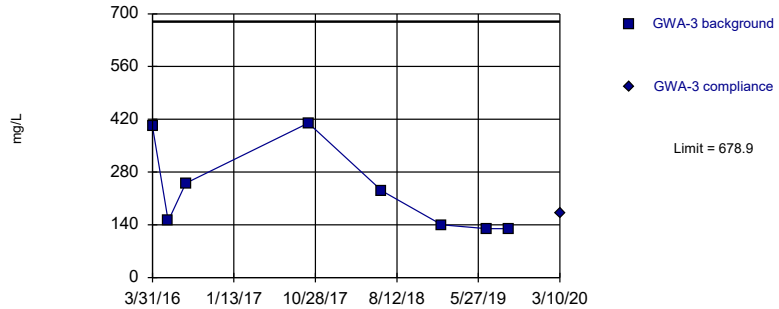


Background Data Summary: Mean=77.64, Std. Dev.=28.56, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9092, critical = 0.825. Kappa = 2.907 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

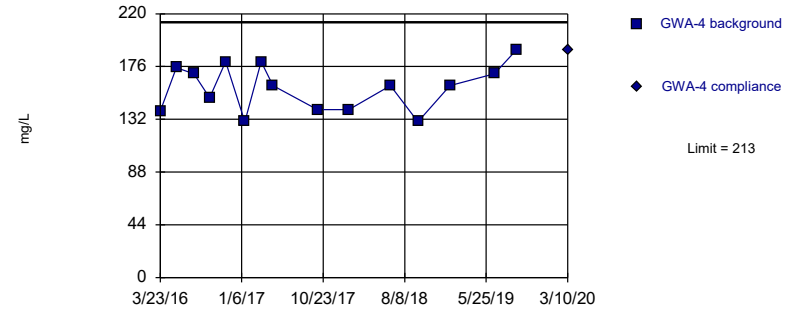


Background Data Summary: Mean=230.1, Std. Dev.=117.4, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8055, critical = 0.749. Kappa = 3.821 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=158.3, Std. Dev.=19.31, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28	GWA-28
3/22/2016	69	
5/23/2016	92	
7/25/2016	38	
9/15/2016	64	
11/9/2016	80	
1/17/2017	54	
3/16/2017	40	
4/27/2017	84	
10/3/2017	70	
1/19/2018	36	
6/19/2018	70	
9/25/2018	36	
1/21/2019	58	
6/25/2019	88	
9/10/2019	86	
3/10/2020		40

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29	GWA-29
3/22/2016	92	
5/19/2016	99	
7/21/2016	100	
1/17/2017	66	
4/27/2017	92	
7/18/2017	84 (J)	
8/1/2017	60 (J)	
10/3/2017	46	
1/19/2018	4 (J)	
6/19/2018	66	
9/25/2018	80	
1/18/2019	81	
6/25/2019	97	
9/10/2019	120	
3/10/2020		50

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-3	GWA-3
3/31/2016	401	
5/25/2016	150	
7/27/2016	250	
10/3/2017	410	
6/20/2018	230	
1/18/2019	140	
6/25/2019	130	
9/11/2019	130	
3/10/2020		170

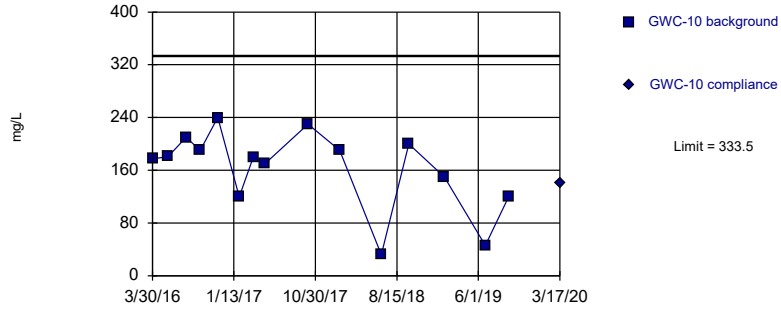
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-4	GWA-4
3/23/2016	139	
5/19/2016	175	
7/21/2016	170	
9/14/2016	150	
11/10/2016	180	
1/17/2017	130	
3/16/2017	180	
4/27/2017	160	
10/3/2017	140	
1/22/2018	140	
6/19/2018	160	
9/25/2018	130	
1/17/2019	160	
6/24/2019	170	
9/10/2019	190	
3/10/2020		190

Within Limit

Prediction Limit
Intrawell Parametric

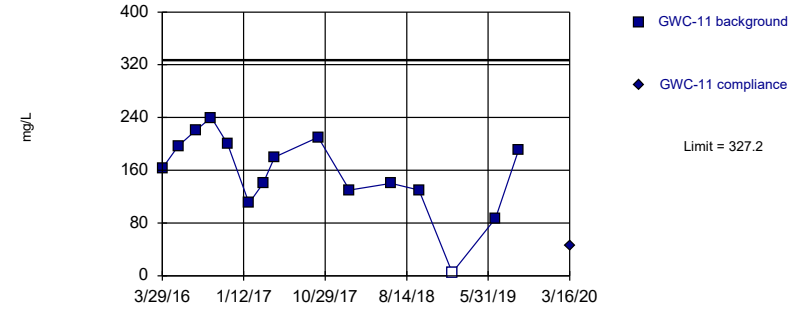


Background Data Summary: Mean=162.4, Std. Dev.=60.37, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8873, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

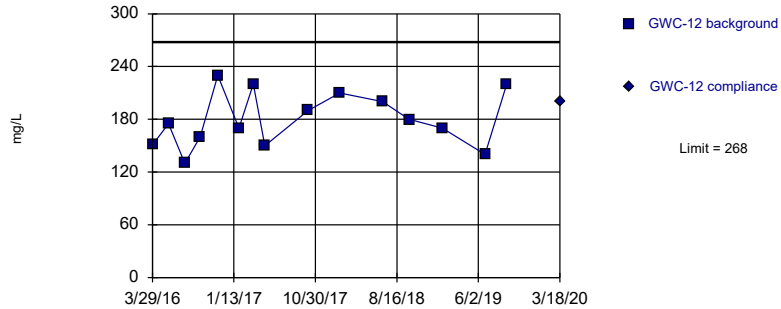


Background Data Summary: Mean=156.1, Std. Dev.=60.36, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

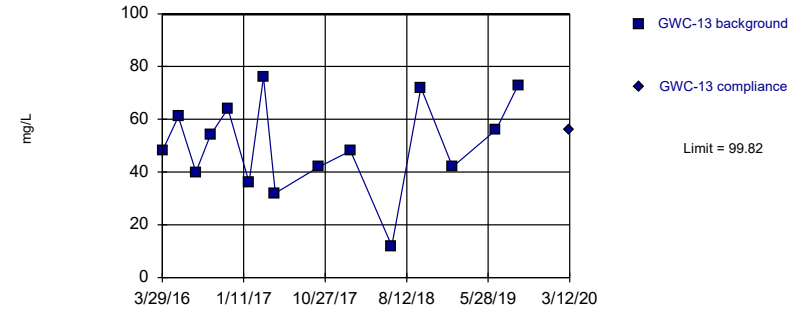


Background Data Summary: Mean=179.7, Std. Dev.=31.13, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=50.4, Std. Dev.=17.43, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9645, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-10	GWC-10
3/30/2016	177	
5/25/2016	181	
7/27/2016	210	
9/16/2016	190	
11/17/2016	240	
2/1/2017	120	
3/24/2017	180	
5/3/2017	170	
10/4/2017	230	
1/25/2018	190	
6/21/2018	32	
9/27/2018	200	
1/31/2019	150	
6/26/2019	46	
9/17/2019	120	
3/17/2020		140

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-11	GWC-11
3/29/2016	163	
5/25/2016	197	
7/25/2016	220	
9/19/2016	240	
11/16/2016	200	
1/31/2017	110	
3/23/2017	140	
5/2/2017	180	
10/4/2017	210	
1/24/2018	130	
6/20/2018	140	
9/27/2018	130	
1/24/2019	<10	
6/26/2019	87	
9/16/2019	190	
3/16/2020		46

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-12	GWC-12
3/29/2016	151	
5/25/2016	175	
7/22/2016	130	
9/15/2016	160	
11/16/2016	230	
1/31/2017	170	
3/23/2017	220	
5/3/2017	150	
10/4/2017	190	
1/24/2018	210	
6/26/2018	200	
9/28/2018	180	
1/25/2019	170	
6/26/2019	140	
9/11/2019	220	
3/18/2020		200

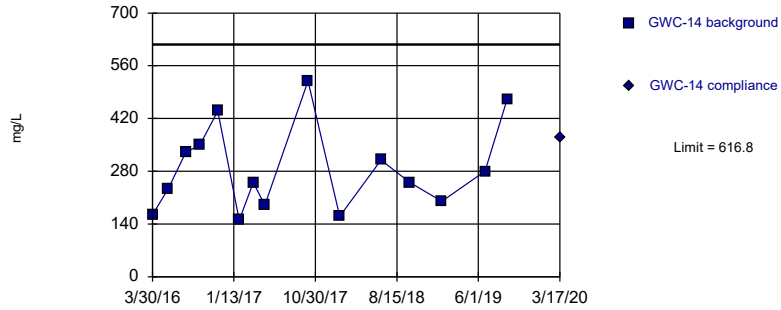
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-13
3/29/2016	48	
5/25/2016	61	
7/26/2016	40	
9/15/2016	54	
11/17/2016	64	
1/31/2017	36	
3/23/2017	76	
5/3/2017	32	
10/5/2017	42	
1/25/2018	48	
6/20/2018	12	
10/2/2018	72	
1/22/2019	42	
6/25/2019	56	
9/12/2019	73	
3/12/2020		56

Within Limit

Prediction Limit
Intrawell Parametric

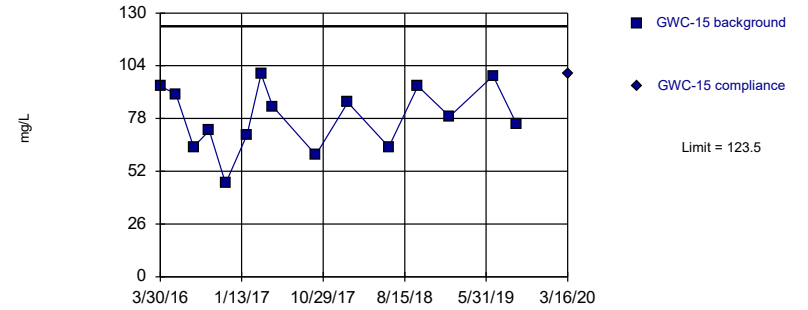


Background Data Summary: Mean=286.5, Std. Dev.=116.5, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

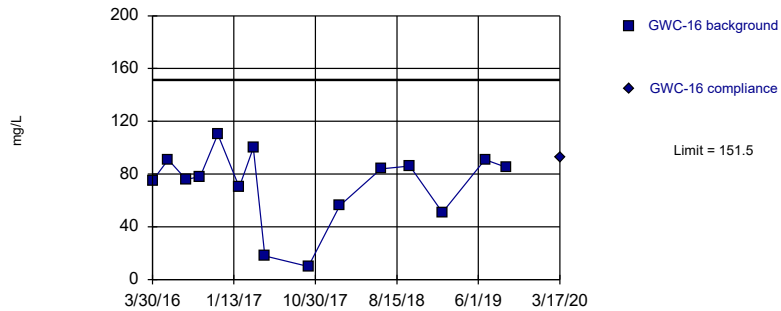


Background Data Summary: Mean=78.47, Std. Dev.=15.87, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9585, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

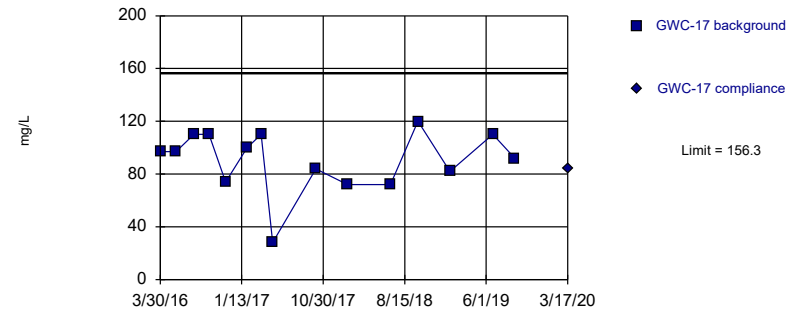


Background Data Summary: Mean=72.07, Std. Dev.=28.01, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8845, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=90.53, Std. Dev.=23.22, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8824, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-14
3/30/2016	165	
5/25/2016	233	
7/26/2016	330	
9/15/2016	350	
11/17/2016	440	
2/1/2017	150	
3/23/2017	250	
5/3/2017	190	
10/4/2017	520	
1/25/2018	160	
6/20/2018	310	
10/1/2018	250	
1/22/2019	200	
6/25/2019	280	
9/12/2019	470	
3/17/2020		370

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-15
3/30/2016	94	
5/25/2016	90	
7/26/2016	64	
9/20/2016	72	
11/17/2016	46	
2/1/2017	70	
3/23/2017	100	
5/3/2017	84	
10/4/2017	60	
1/25/2018	86	
6/20/2018	64	
10/1/2018	94	
1/22/2019	79	
6/25/2019	99	
9/17/2019	75	
3/16/2020		100

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-16	GWC-16
3/30/2016	75	
5/25/2016	91	
7/27/2016	76	
9/16/2016	78	
11/17/2016	110	
2/1/2017	70	
3/24/2017	100	
5/3/2017	18	
10/5/2017	10	
1/25/2018	56	
6/20/2018	84	
10/1/2018	86	
1/25/2019	51	
6/25/2019	91	
9/11/2019	85	
3/17/2020		93

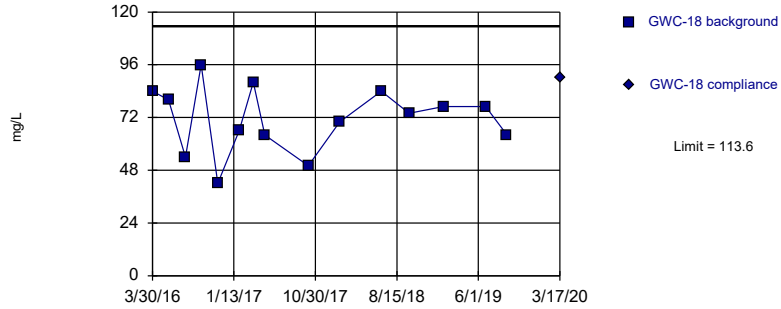
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-17	GWC-17
3/30/2016	97	
5/25/2016	97	
7/27/2016	110	
9/19/2016	110	
11/17/2016	74	
2/1/2017	100	
3/24/2017	110	
5/3/2017	28	
10/4/2017	84	
1/25/2018	72	
6/26/2018	72	
10/2/2018	120	
1/24/2019	82	
6/25/2019	110	
9/11/2019	92	
3/17/2020		84

Within Limit

Prediction Limit
Intrawell Parametric

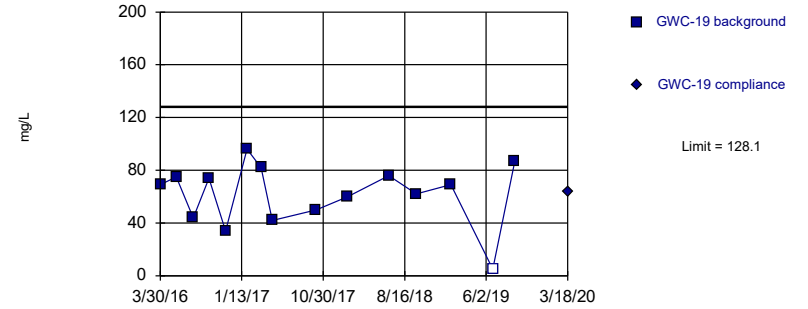


Background Data Summary: Mean=71.33, Std. Dev.=14.9, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

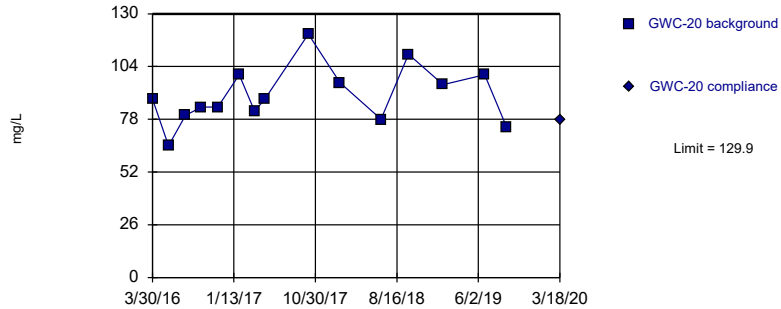


Background Data Summary: Mean=61.67, Std. Dev.=23.44, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

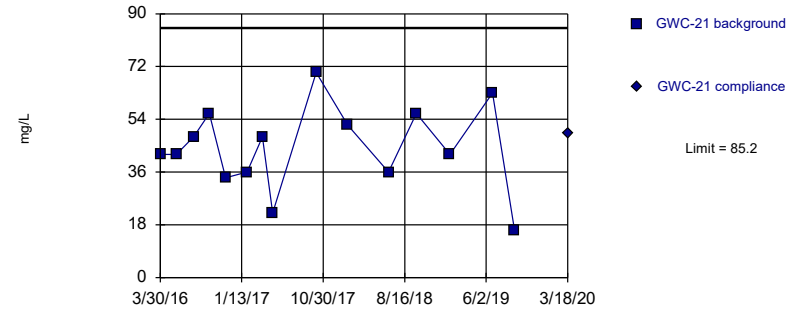


Background Data Summary: Mean=89.6, Std. Dev.=14.21, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=44.2, Std. Dev.=14.46, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9797, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-18	GWC-18
3/30/2016	84	
5/26/2016	80	
7/25/2016	54	
9/19/2016	96	
11/17/2016	42	
2/1/2017	66	
3/24/2017	88	
5/3/2017	64	
10/5/2017	50	
1/25/2018	70	
6/21/2018	84	
9/28/2018	74	
1/28/2019	77	
6/27/2019	77	
9/11/2019	64	
3/17/2020		90

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-19
3/30/2016	69	
5/26/2016	75	
7/25/2016	44	
9/19/2016	74	
11/17/2016	34	
2/2/2017	96	
3/24/2017	82	
5/3/2017	42	
10/5/2017	50	
1/25/2018	60	
6/21/2018	76	
9/27/2018	62	
1/28/2019	69	
6/26/2019	<10	
9/12/2019	87	
3/18/2020		64

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-20	GWC-20
3/30/2016	88	
5/26/2016	65	
7/25/2016	80	
9/20/2016	84	
11/17/2016	84	
2/2/2017	100	
3/28/2017	82	
5/4/2017	88	
10/6/2017	120	
1/26/2018	96	
6/21/2018	78	
9/27/2018	110	
1/28/2019	95	
6/25/2019	100	
9/11/2019	74	
3/18/2020		78

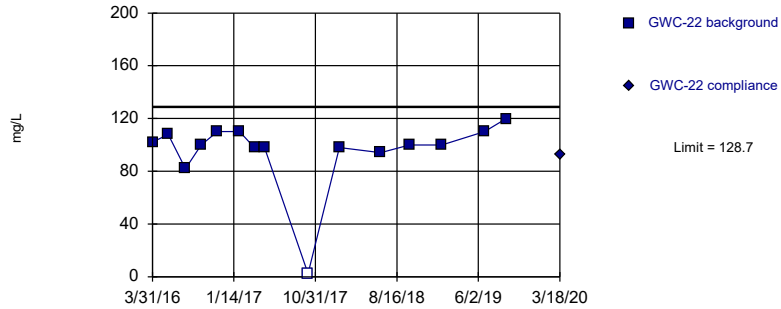
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-21	GWC-21
3/30/2016	42	
5/26/2016	42	
7/26/2016	48	
9/20/2016	56	
11/17/2016	34	
2/2/2017	36	
3/28/2017	48	
5/4/2017	22	
10/6/2017	70	
1/26/2018	52	
6/20/2018	36	
9/27/2018	56	
1/24/2019	42	
6/25/2019	63	
9/11/2019	16	
3/18/2020		49

Within Limit

Prediction Limit
Intrawell Parametric

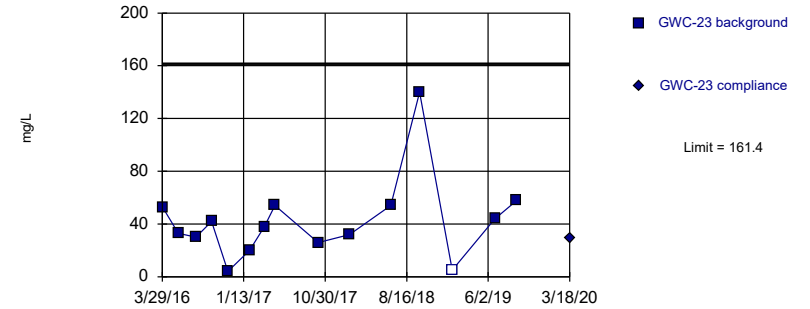


Background Data Summary (based on cube transformation): Mean=1016498, Std. Dev.=393346, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

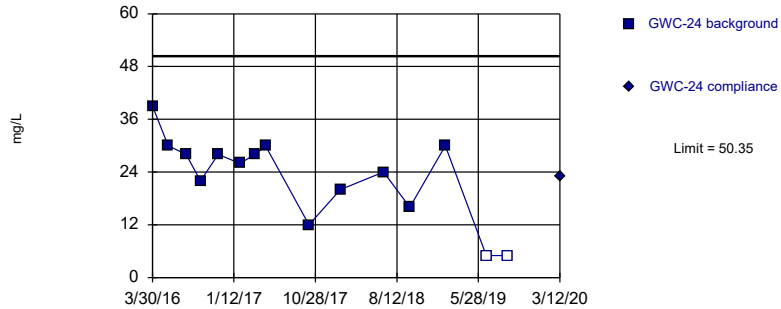


Background Data Summary (based on square root transformation): Mean=6.093, Std. Dev.=2.333, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

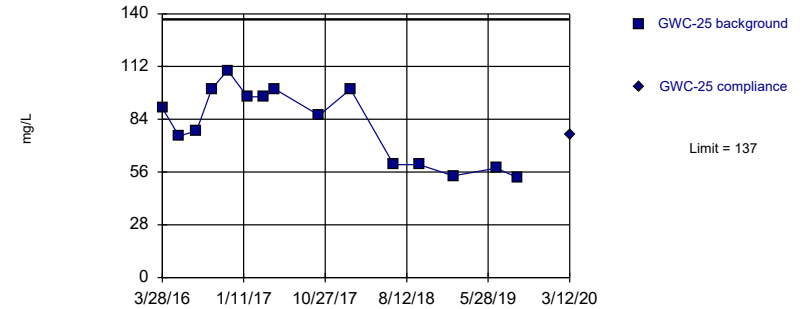


Background Data Summary: Mean=22.87, Std. Dev.=9.694, n=15, 13.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.914, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=81.07, Std. Dev.=19.73, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-22	GWC-22
3/31/2016	102	
5/26/2016	108	
7/26/2016	82	
9/20/2016	100	
11/17/2016	110	
2/3/2017	110	
3/28/2017	98	
5/3/2017	98	
10/5/2017	<5	
1/25/2018	98	
6/20/2018	94	
10/1/2018	100	
1/24/2019	100	
6/25/2019	110	
9/10/2019	120	
3/18/2020		93

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-23
3/29/2016	53	
5/25/2016	33	
7/27/2016	30	
9/20/2016	42	
11/18/2016	4 (J)	
2/3/2017	20	
3/28/2017	38	
5/4/2017	54	
10/5/2017	26	
1/25/2018	32	
6/20/2018	54	
10/1/2018	140	
1/25/2019	<10	
6/26/2019	44	
9/12/2019	58	
3/18/2020		29

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-24	GWC-24
3/30/2016	39	
5/25/2016	30	
7/27/2016	28	
9/16/2016	22	
11/18/2016	28	
2/3/2017	26	
3/29/2017	28	
5/4/2017	30	
10/5/2017	12	
1/25/2018	20	
6/27/2018	24	
9/28/2018	16	
1/31/2019	30	
6/26/2019	<10	
9/11/2019	<10	
3/12/2020		23

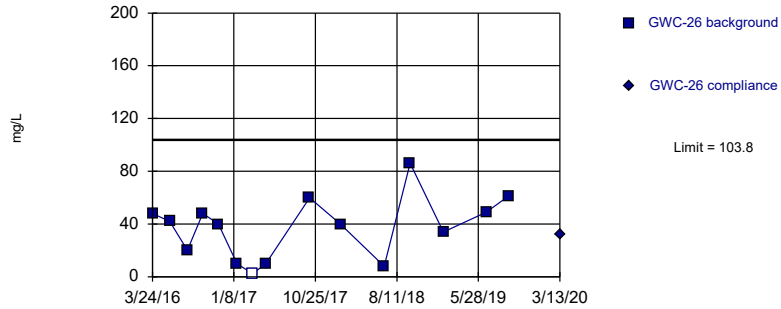
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-25	GWC-25
3/28/2016	90	
5/26/2016	75	
7/27/2016	78	
9/19/2016	100	
11/15/2016	110	
1/24/2017	96	
3/23/2017	96	
5/2/2017	100	
10/5/2017	86	
1/25/2018	100	
6/27/2018	60	
9/26/2018	60	
1/24/2019	54	
6/25/2019	58	
9/11/2019	53	
3/12/2020		76

Within Limit

Prediction Limit
Intrawell Parametric

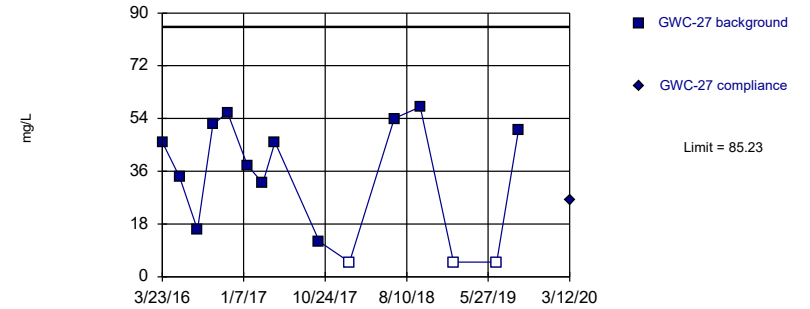


Background Data Summary: Mean=37.23, Std. Dev.=23.48, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9452, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

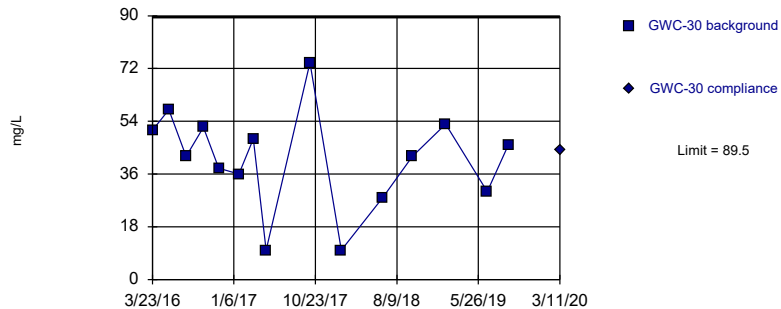


Background Data Summary (after Kaplan-Meier Adjustment): Mean=33.22, Std. Dev.=18.35, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8689, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

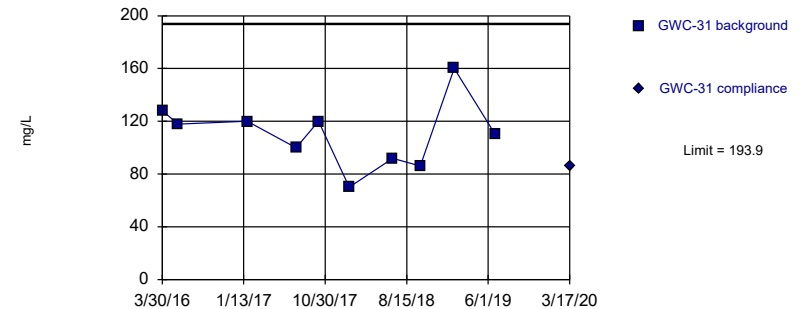


Background Data Summary: Mean=41.2, Std. Dev.=17.04, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9544, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=110.4, Std. Dev.=25.14, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9691, critical = 0.781. Kappa = 3.324 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-26
3/24/2016	48	
5/25/2016	42	
7/26/2016	20	
9/19/2016	48	
11/14/2016	40	
1/19/2017	10	
3/16/2017	<5	
5/1/2017	10	
10/4/2017	60	
1/22/2018	40	
6/27/2018	8	
9/27/2018	86	
1/24/2019	34	
6/25/2019	49	
9/12/2019	61	
3/13/2020		32

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-27	GWC-27
3/23/2016	46	
5/24/2016	34	
7/26/2016	16	
9/19/2016	52	
11/11/2016	56	
1/20/2017	38	
3/16/2017	32	
4/28/2017	46	
10/3/2017	12	
1/19/2018	<10	
6/27/2018	54	
9/27/2018	58	
1/24/2019	<10	
6/26/2019	<10	
9/12/2019	50	
3/12/2020		26

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-30	GWC-30
3/23/2016	51	
5/20/2016	58	
7/21/2016	42	
9/20/2016	52	
11/14/2016	38	
1/24/2017	36	
3/17/2017	48	
5/1/2017	10	
10/4/2017	74	
1/24/2018	10	
6/21/2018	28	
10/3/2018	42	
1/30/2019	53	
6/27/2019	30	
9/10/2019	46	
3/11/2020		44

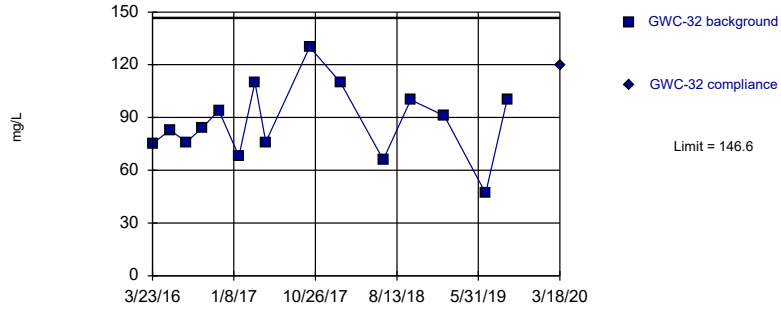
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-31	GWC-31
3/30/2016	128	
5/25/2016	118	
1/25/2017	120	
7/19/2017	100	
10/6/2017	120	
1/23/2018	70	
6/27/2018	92	
10/3/2018	86	
1/31/2019	160	
6/26/2019	110	
3/17/2020		86

Within Limit

Prediction Limit
Intrawell Parametric

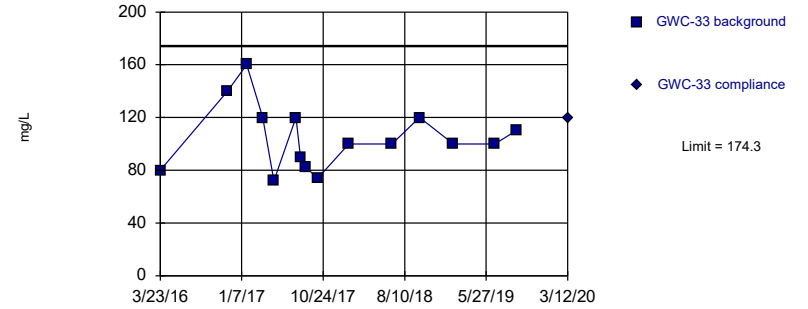


Background Data Summary: Mean=87.33, Std. Dev.=20.91, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9848, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

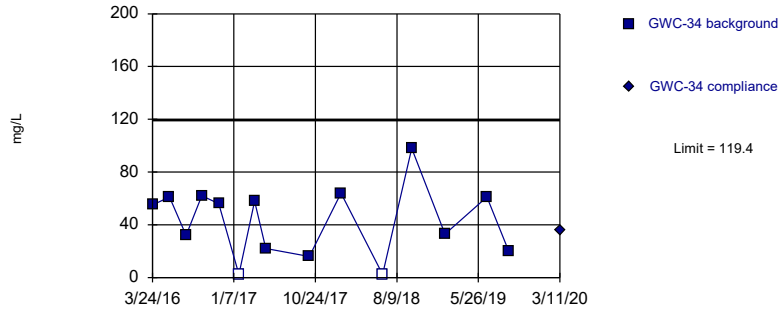


Background Data Summary: Mean=104.5, Std. Dev.=24.61, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9387, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

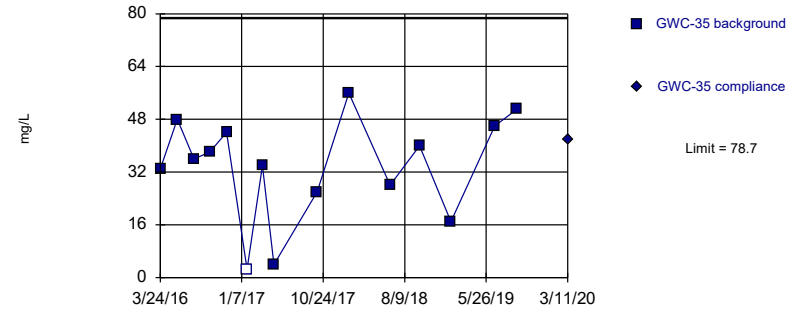


Background Data Summary: Mean=42.87, Std. Dev.=27.01, n=15, 13.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=33.57, Std. Dev.=15.92, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9329, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-32	GWC-32
3/23/2016	75	
5/24/2016	83	
7/22/2016	76	
9/16/2016	84	
11/15/2016	94	
1/26/2017	68	
3/24/2017	110	
5/2/2017	76	
10/6/2017	130	
1/23/2018	110	
6/26/2018	66	
10/2/2018	100	
1/30/2019	91	
6/27/2019	47	
9/12/2019	100	
3/18/2020		120

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-33	GWC-33
3/23/2016	80	
11/17/2016	140	
1/25/2017	160	
3/23/2017	120	
5/1/2017	72	
7/19/2017	120	
8/4/2017	90	
8/24/2017	82	
10/5/2017	74	
1/23/2018	100	
6/26/2018	100	
10/2/2018	120	
1/30/2019	100	
6/26/2019	100	
9/12/2019	110	
3/12/2020		120

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-34
3/24/2016	55	
5/23/2016	61	
7/21/2016	32	
9/15/2016	62	
11/15/2016	56	
1/25/2017	<5	
3/22/2017	58	
5/1/2017	22	
10/3/2017	16	
1/23/2018	64	
6/20/2018	<5	
10/2/2018	98	
1/28/2019	33	
6/26/2019	61	
9/11/2019	20	
3/11/2020		36

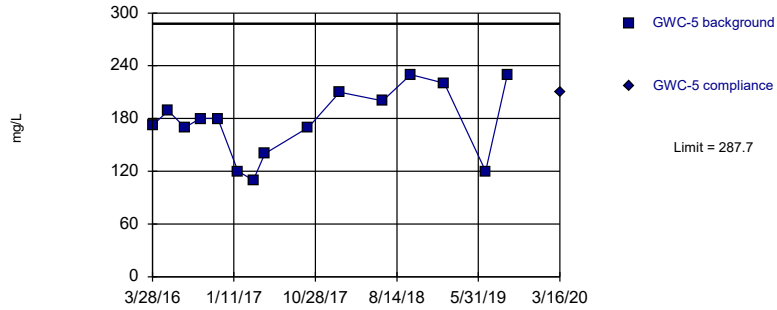
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-35
3/24/2016	33	
5/23/2016	48	
7/21/2016	36	
9/15/2016	38	
11/15/2016	44	
1/26/2017	<5	
3/22/2017	34	
5/2/2017	4 (J)	
10/3/2017	26	
1/23/2018	56	
6/19/2018	28	
10/1/2018	40	
1/21/2019	17	
6/26/2019	46	
9/12/2019	51	
3/11/2020		42

Within Limit

Prediction Limit
Intrawell Parametric

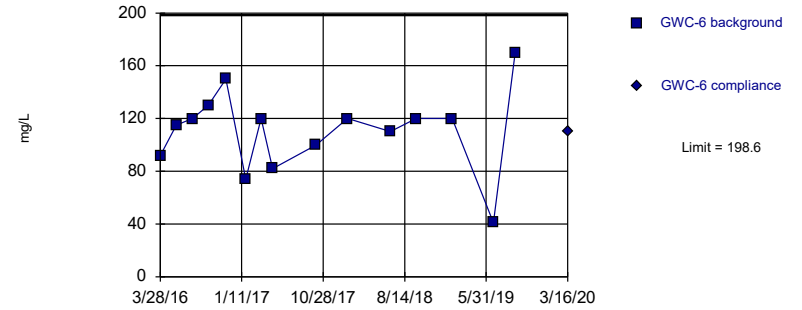


Background Data Summary: Mean=176.1, Std. Dev.=39.38, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9331, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

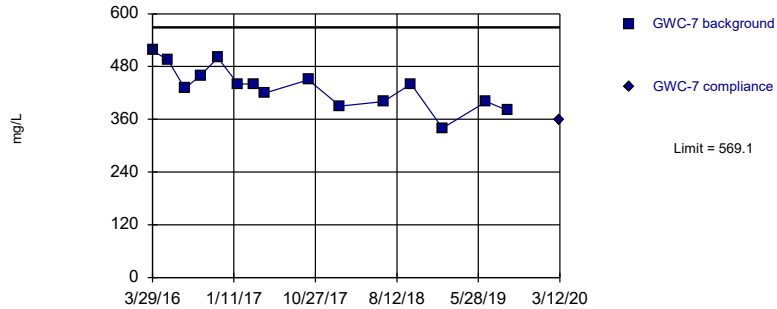


Background Data Summary: Mean=110.9, Std. Dev.=30.91, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9478, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric

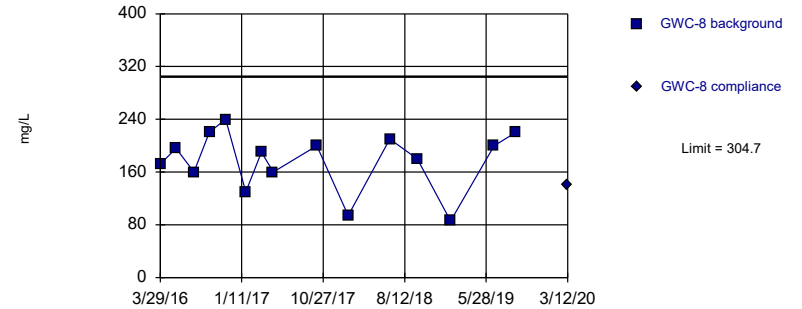


Background Data Summary: Mean=433.4, Std. Dev.=47.88, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=177.2, Std. Dev.=44.99, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9191, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-5	GWC-5
3/28/2016	172	
5/23/2016	189	
7/21/2016	170	
9/15/2016	180	
11/15/2016	180	
1/26/2017	120	
3/22/2017	110	
5/2/2017	140	
10/3/2017	170	
1/23/2018	210	
6/25/2018	200	
10/3/2018	230	
1/30/2019	220	
6/26/2019	120	
9/12/2019	230	
3/16/2020		210

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-6	GWC-6
3/28/2016	92	
5/24/2016	115	
7/21/2016	120	
9/15/2016	130	
11/16/2016	150	
1/26/2017	74	
3/22/2017	120	
5/2/2017	82	
10/3/2017	100	
1/23/2018	120	
6/25/2018	110	
9/25/2018	120	
1/30/2019	120	
6/26/2019	41	
9/12/2019	170	
3/16/2020		110

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-7	GWC-7
3/29/2016	517	
5/24/2016	494	
7/22/2016	430	
9/15/2016	460	
11/16/2016	500	
1/26/2017	440	
3/22/2017	440	
5/2/2017	420	
10/3/2017	450	
1/23/2018	390	
6/25/2018	400	
10/2/2018	440	
1/21/2019	340	
6/25/2019	400	
9/10/2019	380	
3/12/2020		360

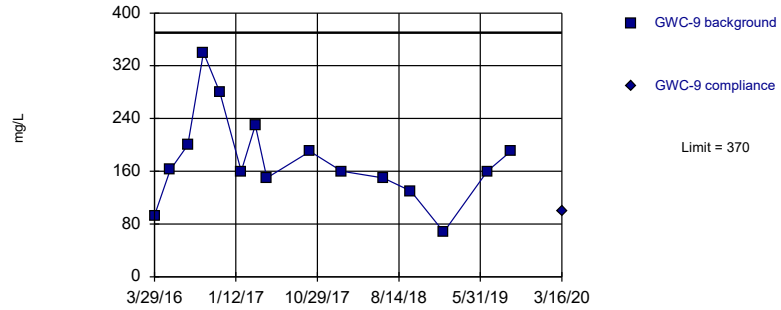
Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-8	GWC-8
3/29/2016	172	
5/24/2016	196	
7/26/2016	160	
9/19/2016	220	
11/16/2016	240	
1/26/2017	130	
3/23/2017	190	
5/3/2017	160	
10/5/2017	200	
1/24/2018	94	
6/21/2018	210	
9/26/2018	180	
1/22/2019	86	
6/25/2019	200	
9/10/2019	220	
3/12/2020		140

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=177.5, Std. Dev.=67.9, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9253, critical = 0.835. Kappa = 2.835 (c=7, w=29, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002595.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/15/2020 10:30 AM View: Intrawell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/15/2020 10:31 AM View: IntraWell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-9
3/29/2016	93	
5/24/2016	162	
7/25/2016	200	
9/19/2016	340	
11/16/2016	280	
1/31/2017	160	
3/23/2017	230	
5/2/2017	150	
10/3/2017	190	
1/24/2018	160	
6/21/2018	150	
9/26/2018	130	
1/22/2019	68	
6/25/2019	160	
9/16/2019	190	
3/16/2020		100

FIGURE G.

Appendix III - Interwell Prediction Limits Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	LimDate	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron, total (mg/L)	GWC-14	0.08	n/a	3/17/2020	1.2	Yes	89	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-15	0.08	n/a	3/16/2020	0.14	Yes	89	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Chloride, Total (mg/L)	GWC-14	43	n/a	3/17/2020	120	Yes	88	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	GWC-10	0.08	n/a	3/17/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-11	0.08	n/a	3/16/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-12	0.08	n/a	3/18/2020	0.058	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-13	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-14	0.08	n/a	3/17/2020	1.2	Yes	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-15	0.08	n/a	3/16/2020	0.14	Yes	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-16	0.08	n/a	3/17/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-17	0.08	n/a	3/17/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-18	0.08	n/a	3/17/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-19	0.08	n/a	3/18/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-20	0.08	n/a	3/18/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-21	0.08	n/a	3/18/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-22	0.08	n/a	3/18/2020	0.041	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-23	0.08	n/a	3/18/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-24	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-25	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-26	0.08	n/a	3/13/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-27	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-30	0.08	n/a	3/11/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-31	0.08	n/a	3/17/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-32	0.08	n/a	3/18/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-33	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-34	0.08	n/a	3/11/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-35	0.08	n/a	3/11/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-5	0.08	n/a	3/16/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-6	0.08	n/a	3/16/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-7	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-8	0.08	n/a	3/12/2020	0.08ND	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	GWC-9	0.08	n/a	3/16/2020	0.052	No	89	n/a	n/a	n/a	96.63	n/a	n/a	0.0002374	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	GWC-10	72	n/a	3/17/2020	15	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-11	72	n/a	3/16/2020	3.1	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-12	72	n/a	3/18/2020	46	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-13	72	n/a	3/12/2020	4.3	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-14	72	n/a	3/17/2020	40	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-15	72	n/a	3/16/2020	14	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-16	72	n/a	3/17/2020	7.4	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-17	72	n/a	3/17/2020	8.5	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-18	72	n/a	3/17/2020	7.6	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-19	72	n/a	3/18/2020	11	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-20	72	n/a	3/18/2020	8.9	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-21	72	n/a	3/18/2020	7.3	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-22	72	n/a	3/18/2020	11	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-23	72	n/a	3/18/2020	4	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-24	72	n/a	3/12/2020	0.42	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-25	72	n/a	3/12/2020	8.9	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-26	72	n/a	3/13/2020	2.3	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-27	72	n/a	3/12/2020	0.94	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-30	72	n/a	3/11/2020	4.1	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-31	72	n/a	3/17/2020	10	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-32	72	n/a	3/18/2020	12	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-33	72	n/a	3/12/2020	19	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-34	72	n/a	3/11/2020	2.6	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-35	72	n/a	3/11/2020	1.8	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-5	72	n/a	3/16/2020	33	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-6	72	n/a	3/16/2020	12	No	88	n/a	n/a	n/a	1.136	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits Summary Table - All Results Page 2

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium, total (mg/L)	GWC-7	72	n/a	3/12/2020	47	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-8	72	n/a	3/12/2020	19	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	GWC-9	72	n/a	3/16/2020	8.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-10	43	n/a	3/17/2020	3.7	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-11	43	n/a	3/16/2020	0.81	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-12	43	n/a	3/18/2020	22	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-13	43	n/a	3/12/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-14	43	n/a	3/17/2020	120	Yes	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-15	43	n/a	3/16/2020	9.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-16	43	n/a	3/17/2020	1.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-17	43	n/a	3/17/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-18	43	n/a	3/17/2020	1.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-19	43	n/a	3/18/2020	2.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-20	43	n/a	3/18/2020	2.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-21	43	n/a	3/18/2020	3.8	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-22	43	n/a	3/18/2020	1.8	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-23	43	n/a	3/18/2020	2.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-24	43	n/a	3/12/2020	4.2	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-25	43	n/a	3/12/2020	6.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-26	43	n/a	3/13/2020	3.1	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-27	43	n/a	3/12/2020	1.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-30	43	n/a	3/11/2020	1.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-31	43	n/a	3/17/2020	1.6	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-32	43	n/a	3/18/2020	1.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-33	43	n/a	3/12/2020	2.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-34	43	n/a	3/11/2020	1.4	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-35	43	n/a	3/11/2020	3.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-5	43	n/a	3/16/2020	9.5	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-6	43	n/a	3/16/2020	9.7	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-7	43	n/a	3/12/2020	13	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-8	43	n/a	3/12/2020	2.9	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	GWC-9	43	n/a	3/16/2020	2.3	No	88	n/a	n/a	1.136	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-10	3.2	n/a	3/17/2020	0.74	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-11	3.2	n/a	3/16/2020	0.051	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-12	3.2	n/a	3/18/2020	0.058	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-13	3.2	n/a	3/12/2020	0.044	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-14	3.2	n/a	3/17/2020	0.046	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-15	3.2	n/a	3/16/2020	0.07	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-16	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-17	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-18	3.2	n/a	3/17/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-19	3.2	n/a	3/18/2020	0.068	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-20	3.2	n/a	3/18/2020	0.048	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-21	3.2	n/a	3/18/2020	0.034	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-22	3.2	n/a	3/18/2020	0.056	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-23	3.2	n/a	3/18/2020	0.034	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-24	3.2	n/a	3/12/2020	0.1ND	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-25	3.2	n/a	3/12/2020	0.032	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-26	3.2	n/a	3/13/2020	0.026	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-27	3.2	n/a	3/12/2020	0.044	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-30	3.2	n/a	3/11/2020	0.066	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-31	3.2	n/a	3/17/2020	1.2	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-32	3.2	n/a	3/18/2020	2.8	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-33	3.2	n/a	3/12/2020	2.1	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-34	3.2	n/a	3/11/2020	0.18	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

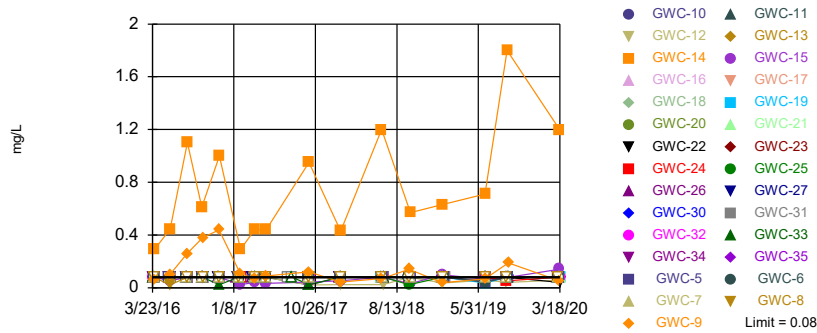
Appendix III - Interwell Prediction Limits Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:35 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	GWC-35	3.2	n/a	3/11/2020	0.035	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-5	3.2	n/a	3/16/2020	0.076	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-6	3.2	n/a	3/16/2020	0.073	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-7	3.2	n/a	3/12/2020	0.16	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-8	3.2	n/a	3/12/2020	0.043	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	GWC-9	3.2	n/a	3/16/2020	0.08	No	88	n/a	n/a	43.18	n/a	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-14, GWC-15

Prediction Limit
Interwell Non-parametric

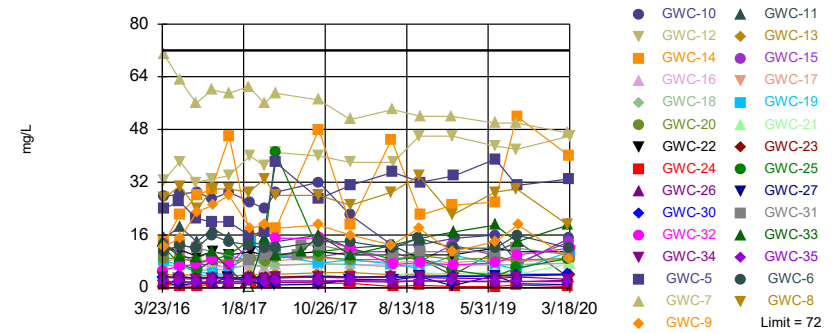


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 89 background values. 96.63% NDs. Annual per-constituent alpha = 0.01368. Individual comparison alpha = 0.0002374 (1 of 2). Comparing 29 points to limit.

Constituent: Boron, total Analysis Run 5/15/2020 10:34 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Interwell Non-parametric

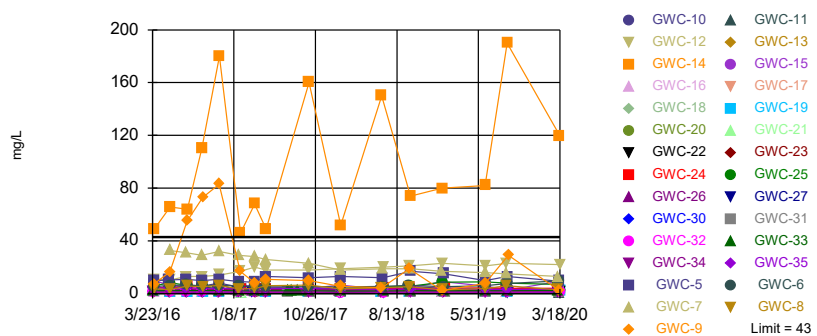


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 1.136% NDs. Annual per-constituent alpha = 0.01401. Individual comparison alpha = 0.0002432 (1 of 2). Comparing 29 points to limit.

Constituent: Calcium, total Analysis Run 5/15/2020 10:34 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Exceeds Limit: GWC-14

Prediction Limit
Interwell Non-parametric

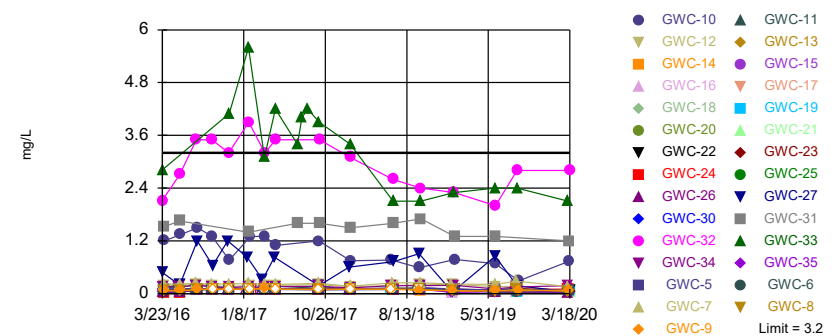


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 1.136% NDs. Annual per-constituent alpha = 0.01401. Individual comparison alpha = 0.0002432 (1 of 2). Comparing 29 points to limit.

Constituent: Chloride, Total Analysis Run 5/15/2020 10:34 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 43.18% NDs. Annual per-constituent alpha = 0.01401. Individual comparison alpha = 0.0002432 (1 of 2). Comparing 29 points to limit.

Constituent: Fluoride, total Analysis Run 5/15/2020 10:34 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWA-1 (bg)	GWC-32	GWC-30	GWC-27
3/22/2016	<0.08	<0.08							
3/23/2016			<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016		<0.08	<0.08						
5/20/2016						<0.08		<0.08	
5/23/2016	<0.08								
5/24/2016				<0.08	<0.08		<0.08		<0.08
5/25/2016									
5/26/2016									
7/21/2016		<0.08	<0.08			<0.08		<0.08	
7/22/2016					<0.08		<0.08		
7/25/2016	<0.08								
7/26/2016				<0.08					<0.08
7/27/2016									
9/14/2016			<0.08						
9/15/2016	<0.08					<0.08			
9/16/2016				<0.08	<0.08		<0.08		
9/19/2016									<0.08
9/20/2016								<0.08	
11/9/2016	<0.08								
11/10/2016			<0.08	<0.08					
11/11/2016						<0.08			<0.08
11/14/2016								<0.08	
11/15/2016							<0.08		
11/16/2016									
11/17/2016					0.023 (J)				
11/18/2016									
1/17/2017	<0.08	<0.08	<0.08						
1/19/2017				<0.08		<0.08			
1/20/2017									<0.08
1/24/2017								<0.08	
1/25/2017					<0.08				
1/26/2017							<0.08		
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	<0.08		<0.08			<0.08			<0.08
3/17/2017				<0.08				<0.08	
3/22/2017									
3/23/2017					<0.08				
3/24/2017							<0.08		
3/28/2017									
3/29/2017									
4/27/2017	<0.08	<0.08	<0.08						
4/28/2017				<0.08		<0.08			<0.08
5/1/2017					<0.08			<0.08	
5/2/2017							<0.08		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWA-1 (bg)	GWC-32	GWC-30	GWC-27
3/16/2020									
3/17/2020									
3/18/2020							<0.08		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-5	GWC-25	GWC-6	GWC-7	GWC-23	GWC-8
3/22/2016									
3/23/2016									
3/24/2016	<0.08	<0.08	<0.08						
3/28/2016				<0.08	<0.08	<0.08			
3/29/2016							<0.08	<0.08	<0.08
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016	<0.08	<0.08		<0.08					
5/24/2016						<0.08	<0.08		0.022 (J)
5/25/2016			<0.08		<0.08			<0.08	
5/26/2016									
7/21/2016	<0.08	<0.08		<0.08		<0.08			
7/22/2016							<0.08		
7/25/2016									
7/26/2016			<0.08						<0.08
7/27/2016					<0.08			<0.08	
9/14/2016									
9/15/2016	<0.08	<0.08		<0.08		<0.08	<0.08		
9/16/2016									
9/19/2016			<0.08		<0.08				<0.08
9/20/2016							<0.08		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016			<0.08						
11/15/2016	<0.08	<0.08		<0.08	<0.08				
11/16/2016						<0.08	<0.08		<0.08
11/17/2016									
11/18/2016							<0.08		
1/17/2017									
1/19/2017			<0.08						
1/20/2017									
1/24/2017					<0.08				
1/25/2017	<0.08								
1/26/2017		<0.08		<0.08		<0.08	<0.08		<0.08
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017								<0.08	
3/16/2017			<0.08						
3/17/2017									
3/22/2017	<0.08	<0.08		<0.08		<0.08	<0.08		
3/23/2017					<0.08				<0.08
3/24/2017									
3/28/2017								<0.08	
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	<0.08		<0.08						
5/2/2017		<0.08		<0.08	<0.08	<0.08	<0.08		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-5	GWC-25	GWC-6	GWC-7	GWC-23	GWC-8
5/3/2017									<0.08
5/4/2017								<0.08	
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
10/3/2017	<0.08	<0.08		<0.08		<0.08	<0.08		
10/4/2017			<0.08						
10/5/2017					<0.08			<0.08	<0.08
10/6/2017									
1/19/2018									
1/22/2018			<0.08						
1/23/2018	<0.08	<0.08		<0.08		<0.08	<0.08		
1/24/2018									<0.08
1/25/2018					<0.08			<0.08	
1/26/2018									
6/19/2018		<0.08							
6/20/2018	<0.08							<0.08	
6/21/2018									<0.08
6/25/2018				<0.08		<0.08	<0.08		
6/26/2018									
6/27/2018			<0.08		<0.08				
9/25/2018						<0.08			
9/26/2018					0.023 (J)				<0.08
9/27/2018			<0.08						
9/28/2018									
10/1/2018		<0.08						<0.08	
10/2/2018	<0.08						<0.08		
10/3/2018				<0.08					
1/17/2019									
1/18/2019									
1/21/2019		<0.08					<0.08		
1/22/2019									<0.08
1/24/2019			<0.08		<0.08				
1/25/2019								<0.08	
1/28/2019	<0.08								
1/30/2019				<0.08		<0.08			
1/31/2019									
6/24/2019									
6/25/2019			<0.08		<0.08		<0.08		<0.08
6/26/2019	<0.08	<0.08		0.045 (J)		0.044 (J)		<0.08	
6/27/2019									
9/9/2019									
9/10/2019							<0.08		<0.08
9/11/2019	<0.08				<0.08				
9/12/2019		<0.08	<0.08	<0.08		<0.08		<0.08	
9/16/2019									
9/17/2019									
3/10/2020									
3/11/2020	<0.08	<0.08							
3/12/2020					<0.08		<0.08		<0.08
3/13/2020			<0.08						

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-9	GWC-11	GWC-12	GWC-10	GWC-24	GWC-16	GWC-15	GWC-18
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	<0.08	0.0635 (J)	<0.08	<0.08					
3/30/2016					<0.08	<0.08	<0.08	0.0787 (J)	<0.08
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016		0.0981 (J)							
5/25/2016	<0.08		<0.08	<0.08	<0.08	<0.08	<0.08	0.0536 (J)	
5/26/2016									<0.08
7/21/2016									
7/22/2016				<0.08					
7/25/2016		0.26	<0.08						<0.08
7/26/2016	<0.08							<0.08	
7/27/2016					<0.08	<0.08	<0.08		
9/14/2016									
9/15/2016	<0.08			<0.08					
9/16/2016					<0.08	<0.08	<0.08		
9/19/2016		0.38	<0.08						<0.08
9/20/2016								<0.08	
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		0.44	<0.08	<0.08					
11/17/2016	<0.08				<0.08		<0.08	<0.08	<0.08
11/18/2016						<0.08			
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017									
1/31/2017	<0.08	0.11	<0.08	<0.08					
2/1/2017					<0.08		<0.08	0.023 (J)	<0.08
2/2/2017									
2/3/2017						<0.08			
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017	<0.08	0.071	<0.08	<0.08				0.042 (J)	
3/24/2017					<0.08		<0.08		<0.08
3/28/2017									
3/29/2017						<0.08			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		0.089	<0.08						

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-9	GWC-11	GWC-12	GWC-10	GWC-24	GWC-16	GWC-15	GWC-18
3/16/2020		0.052 (J)	<0.08					0.14	
3/17/2020					<0.08		<0.08		<0.08
3/18/2020				0.058 (J)					

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-20	GWC-21	GWC-14	GWC-17	GWC-31	GWA-3 (bg)	GWC-22
3/22/2016								
3/23/2016								
3/24/2016								
3/28/2016								
3/29/2016								
3/30/2016	<0.08	<0.08	<0.08	0.291	<0.08	<0.08		
3/31/2016							<0.08	<0.08
5/19/2016								
5/20/2016								
5/23/2016								
5/24/2016								
5/25/2016				0.443	<0.08	<0.08	<0.08	
5/26/2016	<0.08	<0.08	<0.08					<0.08
7/21/2016								
7/22/2016								
7/25/2016	<0.08	<0.08						
7/26/2016			<0.08	1.1				<0.08
7/27/2016					<0.08	<0.08	<0.08	
9/14/2016								
9/15/2016				0.61				
9/16/2016								
9/19/2016	<0.08				<0.08			
9/20/2016		<0.08	<0.08					<0.08
11/9/2016								
11/10/2016								
11/11/2016								
11/14/2016								
11/15/2016								
11/16/2016								
11/17/2016	<0.08	<0.08	<0.08	1	<0.08			<0.08
11/18/2016								
1/17/2017								
1/19/2017								
1/20/2017								
1/24/2017								
1/25/2017						<0.08		
1/26/2017								
1/31/2017								
2/1/2017				0.29	<0.08			
2/2/2017	<0.08	<0.08	<0.08					
2/3/2017								<0.08
3/16/2017								
3/17/2017								
3/22/2017								
3/23/2017				0.44		<0.08		
3/24/2017	<0.08				<0.08			
3/28/2017		<0.08	<0.08					<0.08
3/29/2017								
4/27/2017								
4/28/2017								
5/1/2017								
5/2/2017						<0.08		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-20	GWC-21	GWC-14	GWC-17	GWC-31	GWA-3 (bg)	GWC-22
3/16/2020								
3/17/2020				1.2	<0.08	<0.08		
3/18/2020	<0.08	<0.08	<0.08					0.041 (J)

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-6	GWC-25	GWC-5	GWC-12	GWC-11	GWC-8
3/22/2016									
3/23/2016									
3/24/2016	3.27	1.97	1.72						
3/28/2016				10.8	12.3	23.9			
3/29/2016							32.6	15	27.2
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016	2.82	1.97				26.3			
5/24/2016				13					30.8
5/25/2016			1.68		7.2		38.3	18.5	
5/26/2016									
7/21/2016	2.6	1.7		12		21			
7/22/2016							32		
7/25/2016								14	
7/26/2016			1.4						24
7/27/2016					5.4				
9/14/2016									
9/15/2016	2.9	1.9		16		20	33		
9/16/2016									
9/19/2016			1.5		8.4			18	30
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016			1.8						
11/15/2016	2.5	1.8			10	20			
11/16/2016				14			34	15	30
11/17/2016									
11/18/2016									
1/17/2017									
1/19/2017			1.6						
1/20/2017									
1/24/2017					14				
1/25/2017	2.7								
1/26/2017		2.2		13		16			29
1/31/2017							40	8	
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017			1.7						
3/17/2017									
3/22/2017	2.7	1.8		12		17			
3/23/2017					13		37	9.3	33
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	3.1		1.6						
5/2/2017		2.1		12	41	38		14	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-6	GWC-25	GWC-5	GWC-12	GWC-11	GWC-8
5/3/2017							41		28
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
10/3/2017	3.2	2.1		14		27			
10/4/2017			1.8				40	16	
10/5/2017					11				28
10/6/2017									
1/19/2018									
1/22/2018			1.9						
1/23/2018	3	2.2		14		31			
1/24/2018							38	12	25
1/25/2018					12				
1/26/2018									
6/19/2018		2							
6/20/2018	3.2							13	
6/21/2018									29
6/25/2018				12		35			
6/26/2018							38		
6/27/2018			1.7		8.5				
9/25/2018				15					
9/26/2018					9.2				34
9/27/2018			2.1					9	
9/28/2018							46		
10/1/2018		2.1							
10/2/2018	3.1								
10/3/2018						32			
1/17/2019									
1/18/2019									
1/21/2019		2							
1/22/2019									22
1/24/2019			1.9		5.4			3.8	
1/25/2019							46		
1/28/2019	2.9								
1/30/2019				12		34			
1/31/2019									
6/24/2019									
6/25/2019			1.8		3.5				29
6/26/2019	2.8	2		12		39	43	11	
6/27/2019									
9/9/2019									
9/10/2019									30
9/11/2019	3.3				6		42		
9/12/2019		1.9	1.8	16		31			
9/16/2019								14	
9/17/2019									
3/10/2020									
3/11/2020	2.6	1.8							
3/12/2020					8.9				19
3/13/2020			2.3						

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-34	GWC-35	GWC-26	GWC-6	GWC-25	GWC-5	GWC-12	GWC-11	GWC-8
3/16/2020				12		33		3.1	
3/17/2020									
3/18/2020							46		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-7	GWC-9	GWC-23	GWC-15	GWC-16	GWC-18	GWC-10	GWC-19
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	3.91	70.8	12.6	3.32					
3/30/2016					13.3	6.72	6.88	27.6	8.32
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016		63.2	14.9						
5/25/2016	4.06			3.4	10.6	7.09		28.5	
5/26/2016							6.42		6.78
7/21/2016									
7/22/2016		56							
7/25/2016			23				5.3		4.7
7/26/2016	3.7				7.2				
7/27/2016				2.9		6.4		29	
9/14/2016									
9/15/2016	3.7	60							
9/16/2016						6.7		27	
9/19/2016			25				5.4		4.3
9/20/2016				3.3	6.9				
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		59	28						
11/17/2016	3.5				6.1	6.3	5.5	29	4.1
11/18/2016				2.9					
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017		61							
1/31/2017	4.1		18						
2/1/2017					9.6	6.8	7.3	26	
2/2/2017									14
2/3/2017				3.3					
3/16/2017									
3/17/2017									
3/22/2017		56							
3/23/2017	3.9		19		9.9				
3/24/2017						6.3	6.4	24	8.7
3/28/2017				3.1					
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017		59	18						

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-13	GWC-7	GWC-9	GWC-23	GWC-15	GWC-16	GWC-18	GWC-10	GWC-19
3/16/2020			8.9		14				
3/17/2020						7.4	7.6	15	
3/18/2020				4					11

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-20	GWC-24	GWC-21	GWC-31	GWC-17	GWC-22	GWA-3 (bg)
3/22/2016								
3/23/2016								
3/24/2016								
3/28/2016								
3/29/2016								
3/30/2016	13.8	8.78	1.01	2.98	11.3	8.15		
3/31/2016							11.5	39.6
5/19/2016								
5/20/2016								
5/23/2016								
5/24/2016								
5/25/2016	22.2		0.69		12.9	8.68		28.3
5/26/2016		9.13		3.16			11.5	
7/21/2016								
7/22/2016								
7/25/2016		7.7						
7/26/2016	28			2.9			9.5	
7/27/2016			0.4		12	7.9		22
9/14/2016								
9/15/2016	30							
9/16/2016			1.3					
9/19/2016						7.8		
9/20/2016		8.9		3.6			11	
11/9/2016								
11/10/2016								
11/11/2016								
11/14/2016								
11/15/2016								
11/16/2016								
11/17/2016	46	7.9		2.8		7.5	10	
11/18/2016			1.3					
1/17/2017								
1/19/2017								
1/20/2017								
1/24/2017								
1/25/2017					8.3			
1/26/2017								
1/31/2017								
2/1/2017	15					8.7		
2/2/2017		8.9		3.3				
2/3/2017			1.2				11	
3/16/2017								
3/17/2017								
3/22/2017								
3/23/2017	18				10			
3/24/2017						7.5		
3/28/2017		7.9		3.2			9.8	
3/29/2017			1.3					
4/27/2017								
4/28/2017								
5/1/2017								
5/2/2017					9.8			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-14	GWC-20	GWC-24	GWC-21	GWC-31	GWC-17	GWC-22	GWA-3 (bg)
3/16/2020								
3/17/2020	40				10	8.5		
3/18/2020		8.9		7.3			11	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
3/22/2016	1.5096	1.3716							
3/23/2016			1.8057	2.2604	1.3598	2.5102	1.0533	1.0825	9.041
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016	1.51								13.1
5/20/2016			1.84		1.4				
5/23/2016		1.33							
5/24/2016						4.52	1.1	1.08	
5/25/2016									
5/26/2016									
7/21/2016	1.6		1.9		1.4				17
7/22/2016							1.1		
7/25/2016		1.4							
7/26/2016						4		1.1	
7/27/2016									
9/14/2016									17
9/15/2016		1.3	1.8						
9/16/2016						4.1	1.1		
9/19/2016								1	
9/20/2016					1.3				
11/9/2016		1.4							
11/10/2016						4.6			23
11/11/2016			1.8					0.97 (J)	
11/14/2016					1.3				
11/15/2016							1.1		
11/16/2016									
11/17/2016				2.5					
11/18/2016									
1/17/2017	1.3	1.3							14
1/19/2017			1.8			5.6			
1/20/2017								0.99 (J)	
1/24/2017					1.3				
1/25/2017				2.1					
1/26/2017							1.1		
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017		1.2	1.7					1	16
3/17/2017					1.3	4.4			
3/22/2017									
3/23/2017				2					
3/24/2017							1.1		
3/28/2017									
3/29/2017									
4/27/2017	1.4	1.2							15
4/28/2017			1.7			4.7		0.96 (J)	
5/1/2017				2.1	1.3				
5/2/2017							0.99 (J)		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
5/3/2017									
5/4/2017									
7/18/2017	1.2								
7/19/2017				2.1					
8/1/2017	1.3								
8/4/2017				1.9					
8/24/2017				1.9					
10/3/2017	1.2	1.2				4.7		0.96 (J)	17
10/4/2017			1.7		1.2				
10/5/2017				2.1					
10/6/2017							1.1		
1/19/2018	1	1.1	1.6			4.3		0.91 (J)	
1/22/2018									15
1/23/2018				2			<1		
1/24/2018					1.1				
1/25/2018									
1/26/2018									
6/19/2018	1.2	1.2	1.7			3.6			12
6/20/2018									
6/21/2018					1.2				
6/25/2018									
6/26/2018				2			0.89 (J)		
6/27/2018								0.92 (J)	
9/25/2018	1.2	1.2	1.7			4.9			17
9/26/2018									
9/27/2018								1	
9/28/2018									
10/1/2018									
10/2/2018				2.2			1		
10/3/2018					1.4				
1/17/2019			1.8			3.7			11
1/18/2019	1.3								
1/21/2019		1.2							
1/22/2019									
1/24/2019								1.1	
1/25/2019									
1/28/2019									
1/30/2019				2.2	1.2		0.98 (J)		
1/31/2019									
6/24/2019			1.7			6.1			11
6/25/2019	24	1.3							
6/26/2019				2.2				1.1	
6/27/2019					1.4		1.1		
9/9/2019			1.9						
9/10/2019	1.3	1.3			1.3	5.1			17
9/11/2019									
9/12/2019				2.1			0.99 (J)	0.88 (J)	
9/16/2019									
9/17/2019									
3/10/2020	1.1	1.4	2			3.9			10
3/11/2020					1.5				
3/12/2020				2.4				1.3	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-29 (bg)	GWA-28 (bg)	GWA-1 (bg)	GWC-33	GWC-30	GWA-2 (bg)	GWC-32	GWC-27	GWA-4 (bg)
3/13/2020									
3/16/2020									
3/17/2020									
3/18/2020							1.4		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
3/22/2016									
3/23/2016									
3/24/2016	2.8217	4.4998	1.2259						
3/28/2016				5.312	9.818	5.992			
3/29/2016							1.9463	1.3057	10.931
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016		4.19	1.19		10.4				
5/24/2016				6.21					
5/25/2016	2.93						1.96	1.27	10.5
5/26/2016						8.14			
7/21/2016		4.4	1.3	6.6	11				
7/22/2016									13
7/25/2016									
7/26/2016	3							1.4	
7/27/2016						6.3	2.1		
9/14/2016									
9/15/2016		4	1.2	6.1	10			1.3	13
9/16/2016									
9/19/2016	2.9					5.1			
9/20/2016							1.9		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016	2.8								
11/15/2016		4.2	1.2		11	3.9			
11/16/2016				6.2					14
11/17/2016								1.2	
11/18/2016							1.8		
1/17/2017									
1/19/2017	2.8								
1/20/2017									
1/24/2017						3.6			
1/25/2017			1.2						
1/26/2017		4.2		5.8	9.2				
1/31/2017								1.2	17
2/1/2017									
2/2/2017									
2/3/2017							1.9		
3/16/2017	2.7								
3/17/2017									
3/22/2017		3.9	1.1	5.2	8.7				
3/23/2017						3.2		1.2	20
3/24/2017									
3/28/2017							1.8		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017	2.8		1.1						
5/2/2017		4		5.1	13	3.5			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
5/3/2017								1.1	18
5/4/2017							1.8		
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017		3.8	1.1	5.4	12				
10/4/2017	2.8								18
10/5/2017						3.5	1.8	1.1	
10/6/2017									
1/19/2018									
1/22/2018	2.6								
1/23/2018		3.5	0.95 (J)	5.1	13				
1/24/2018									19
1/25/2018						3.6	1.6	1	
1/26/2018									
6/19/2018		3.4							
6/20/2018			1.1				1.9	1.2	
6/21/2018									
6/25/2018				5.5	12				
6/26/2018									20
6/27/2018	2.8					5.2			
9/25/2018				6.3					
9/26/2018						5.6			
9/27/2018	3								
9/28/2018									21
10/1/2018		3.6					1.9		
10/2/2018			1.1					1.3	
10/3/2018					17				
1/17/2019									
1/18/2019									
1/21/2019		3.5							
1/22/2019								1.2	
1/24/2019	3.1					8.7			
1/25/2019							2		23
1/28/2019			1.3						
1/30/2019				5.3	15				
1/31/2019									
6/24/2019									
6/25/2019	3					9		1.3	
6/26/2019		3.4	1.2	6	10		2		21
6/27/2019									
9/9/2019									
9/10/2019									
9/11/2019			1.1			7.9			23
9/12/2019	2.3	3.2		7.7	13		1.9	1	
9/16/2019									
9/17/2019									
3/10/2020									
3/11/2020		3.5	1.4						
3/12/2020						6.9		1.3	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-26	GWC-35	GWC-34	GWC-6	GWC-5	GWC-25	GWC-23	GWC-13	GWC-12
3/13/2020	3.1								
3/16/2020				9.7	9.5				
3/17/2020									
3/18/2020							2.1		22

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	7.395	3.5914	3.4214						
3/30/2016				49.11	1.3046	1.4751	2.0074	1.9069	3.7204
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016	16.4	3.16							
5/25/2016			5.33	65.8	1.31	1.43		1.89	3.89
5/26/2016							2		
7/21/2016									
7/22/2016									
7/25/2016	55		5.8				2.1		
7/26/2016		5.9		64					
7/27/2016					1.4	1.7			6.5
9/14/2016									
9/15/2016				110					
9/16/2016						1.5			5.9
9/19/2016	73	5.4	5.2		1.3				
9/20/2016							2		
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016	83	6.2	6.7						
11/17/2016				180	1.3	1.4	1.9		7.9
11/18/2016									
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017								1.9	
1/26/2017		3.6							
1/31/2017	17		2.1						
2/1/2017				46	1.2	1.4			4.9
2/2/2017							1.9		
2/3/2017									
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017	8.2	3.9	2	68					
3/24/2017					1.1	1.3			2.6
3/28/2017							1.8		
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	11		3.3						

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
5/3/2017		6.1		49	1.2	1.3			3.9
5/4/2017							1.9		
7/18/2017									
7/19/2017								1.6	
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017	10								
10/4/2017			3.5	160	1.1				3.9
10/5/2017		6.4				1.3			
10/6/2017							1.8	1.7	
1/19/2018									
1/22/2018									
1/23/2018								1.4	
1/24/2018	5.6	3.5	2.3						
1/25/2018				52	0.99 (J)	1.2			4.2
1/26/2018							1.6		
6/19/2018									
6/20/2018			3.1	150		1.3			
6/21/2018	4.5	4.5					1.9		4.6
6/25/2018									
6/26/2018					1.1				
6/27/2018								1.5	
9/25/2018									
9/26/2018	19	5.4							
9/27/2018			3.3				1.8		5.4
9/28/2018									
10/1/2018				74		1.4			
10/2/2018					1.2				
10/3/2018								1.7	
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019	2.3	2.8		80					
1/24/2019			0.94 (J)		1.2				
1/25/2019						1.5			
1/28/2019							2		
1/30/2019									
1/31/2019								1.3	4
6/24/2019									
6/25/2019	7.7	3.9		82	1.2	1.5	1.9		
6/26/2019			3.2					1.5	4.2
6/27/2019									
9/9/2019									
9/10/2019		6							
9/11/2019					1.1	1.6	1.9		
9/12/2019				190					
9/16/2019	29		3.1						
9/17/2019									3.6
3/10/2020									
3/11/2020									
3/12/2020		2.9							

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-9	GWC-8	GWC-11	GWC-14	GWC-17	GWC-16	GWC-20	GWC-31	GWC-10
3/13/2020									
3/16/2020	2.3		0.81 (J)						
3/17/2020				120	1.3	1.9		1.6	3.7
3/18/2020							2.1		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-21	GWC-24	GWC-18	GWC-19	GWA-3 (bg)	GWC-22	GWC-7
5/3/2017	5.1			1.6	1.8		1.5	
5/4/2017		3.4	3.2					
7/18/2017								
7/19/2017								
8/1/2017								
8/4/2017								
8/24/2017								
10/3/2017						9.5		23
10/4/2017	4.2							
10/5/2017			3.3	1.5	1.6		1.5	
10/6/2017		3.2						
1/19/2018								
1/22/2018								
1/23/2018								18
1/24/2018								
1/25/2018	6.5		3.1	1.6	1.7		1.3	
1/26/2018		3.3						
6/19/2018								
6/20/2018	3.4	3.5				12	1.5	
6/21/2018				1.5	1.6			
6/25/2018								19
6/26/2018								
6/27/2018			3.8					
9/25/2018								
9/26/2018								
9/27/2018		3.1			1.3			
9/28/2018			3.8	1.6				
10/1/2018	4.3						1.6	
10/2/2018								19
10/3/2018								
1/17/2019								
1/18/2019						19		
1/21/2019								17
1/22/2019	9.1							
1/24/2019		4.1					1.6	
1/25/2019								
1/28/2019				1.7	2.2			
1/30/2019								
1/31/2019			4.1					
6/24/2019								
6/25/2019	5.8	3.5				<1	1.7	16
6/26/2019			4.4		1.5			
6/27/2019				1.6				
9/9/2019								
9/10/2019							1.6	15
9/11/2019		2.9	4.2	1.5		22		
9/12/2019					1.3			
9/16/2019								
9/17/2019	2.8							
3/10/2020						43		
3/11/2020								
3/12/2020			4.2					13

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-15	GWC-21	GWC-24	GWC-18	GWC-19	GWA-3 (bg)	GWC-22	GWC-7
3/13/2020								
3/16/2020	9.5							
3/17/2020				1.9				
3/18/2020		3.8			2.5		1.8	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell

Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWC-32	GWA-1 (bg)	GWC-30	GWC-27
3/22/2016	1.4375	2.2163							
3/23/2016			0.0713 (J)	0.0276 (J)	2.8158	2.1209	0.019 (J)	0.0999 (J)	0.4759
3/24/2016									
3/28/2016									
3/29/2016									
3/30/2016									
3/31/2016									
5/19/2016		2.35	0.078 (J)						
5/20/2016							0.02 (J)	0.104 (J)	
5/23/2016	1.62								
5/24/2016				0.023 (J)		2.71			0.198 (J)
5/25/2016									
5/26/2016									
7/21/2016		3.2	<0.1				<0.1	0.11 (J)	
7/22/2016						3.5			
7/25/2016	1.7								
7/26/2016				<0.1					1.2
7/27/2016									
9/14/2016			<0.1						
9/15/2016	1.6						<0.1		
9/16/2016				<0.1		3.5			
9/19/2016									0.64
9/20/2016								0.092 (J)	
11/9/2016	1.7								
11/10/2016			<0.1	<0.1					
11/11/2016							<0.1		1.2
11/14/2016								<0.1	
11/15/2016						3.2			
11/16/2016									
11/17/2016					4.1				
11/18/2016									
1/17/2017	1.6	2.6	<0.1						
1/19/2017				<0.1			<0.1		
1/20/2017									0.83
1/24/2017								0.094 (J)	
1/25/2017					5.6				
1/26/2017						3.9			
1/31/2017									
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017	1.7		<0.1				<0.1		0.32
3/17/2017				<0.1				0.084 (J)	
3/22/2017									
3/23/2017					3.1				
3/24/2017						3.2			
3/28/2017									
3/29/2017									
4/27/2017	1.4	2.5	<0.1						
4/28/2017				<0.1			<0.1		0.83
5/1/2017					4.2			0.092 (J)	
5/2/2017						3.5			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWC-32	GWA-1 (bg)	GWC-30	GWC-27
5/3/2017									
5/4/2017									
7/18/2017		2.2							
7/19/2017					3.4				
8/1/2017		2.5							
8/4/2017					4				
8/24/2017					4.2				
10/3/2017	1.7	2.3	<0.1	<0.1					0.18 (J)
10/4/2017							<0.1	0.091 (J)	
10/5/2017					3.9				
10/6/2017						3.5			
1/19/2018	1.4	2.1		<0.1			<0.1		0.6
1/22/2018			<0.1						
1/23/2018					3.4	3.1			
1/24/2018								<0.1	
1/25/2018									
1/26/2018									
6/19/2018	1.6	2.3	0.084 (J)	<0.1			<0.1		
6/20/2018									
6/21/2018								<0.1	
6/25/2018									
6/26/2018					2.1	2.6			
6/27/2018									0.73
9/25/2018	1.7	2.3	<0.1	<0.1			<0.1		
9/26/2018									
9/27/2018									0.91
9/28/2018									
10/1/2018									
10/2/2018					2.1	2.4			
10/3/2018								0.13 (J)	
1/17/2019			0.06 (J)	<0.1			<0.1		
1/18/2019		2							
1/21/2019	1.6								
1/22/2019									
1/24/2019									0.039 (J)
1/25/2019									
1/28/2019									
1/30/2019					2.3	2.3		0.1 (J)	
1/31/2019									
6/24/2019			0.08 (J)	0.032 (J)			0.031 (J)		
6/25/2019	1.9	0.034 (J)							
6/26/2019					2.4				0.85
6/27/2019						2		0.073 (J)	
9/9/2019							<0.1		
9/10/2019	1.8	2.6	0.091 (J)	<0.1				0.1 (J)	
9/11/2019									
9/12/2019					2.4	2.8			0.18
9/16/2019									
9/17/2019									
3/10/2020	2	1.7	0.056 (J)	<0.1			<0.1		
3/11/2020								0.066 (J)	
3/12/2020					2.1				0.044 (J)

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWA-28 (bg)	GWA-29 (bg)	GWA-4 (bg)	GWA-2 (bg)	GWC-33	GWC-32	GWA-1 (bg)	GWC-30	GWC-27
3/13/2020									
3/16/2020									
3/17/2020									
3/18/2020						2.8			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-34	GWC-26	GWC-6	GWC-5	GWC-25	GWC-13	GWC-11	GWC-7
3/22/2016									
3/23/2016									
3/24/2016	0.0396 (J)	0.1653 (J)	0.0318 (J)						
3/28/2016				0.0752 (J)	0.1116 (J)	0.0542 (J)			
3/29/2016							0.1084 (J)	0.1377 (J)	0.2179 (J)
3/30/2016									
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016	0.0343 (J)	0.155 (J)			0.1022 (J)				
5/24/2016				0.081 (J)					0.216 (J)
5/25/2016			0.0282 (J)				0.1002 (J)	0.1521 (J)	
5/26/2016						0.034 (J)			
7/21/2016	<0.1	0.19 (J)		0.088 (J)	0.11 (J)				
7/22/2016									0.23
7/25/2016								0.21	
7/26/2016			<0.1				0.12 (J)		
7/27/2016						<0.1			
9/14/2016									
9/15/2016	<0.1	0.16 (J)		0.084 (J)	0.084 (J)		0.1 (J)		0.22
9/16/2016									
9/19/2016			<0.1			<0.1		0.15 (J)	
9/20/2016									
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016			<0.1						
11/15/2016	<0.1	0.14 (J)			<0.1	<0.1			
11/16/2016				<0.1				0.14 (J)	0.22
11/17/2016							0.092 (J)		
11/18/2016									
1/17/2017									
1/19/2017			<0.1						
1/20/2017									
1/24/2017						<0.1			
1/25/2017		0.16 (J)							
1/26/2017	<0.1			<0.1	<0.1				0.23
1/31/2017							0.11 (J)	<0.1	
2/1/2017									
2/2/2017									
2/3/2017									
3/16/2017			<0.1						
3/17/2017									
3/22/2017	<0.1	0.14 (J)		<0.1	<0.1				0.2
3/23/2017						<0.1	0.088 (J)	0.097 (J)	
3/24/2017									
3/28/2017									
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017		0.16 (J)	<0.1						
5/2/2017	<0.1			<0.1	0.1 (J)	<0.1		0.11 (J)	0.21

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-35	GWC-34	GWC-26	GWC-6	GWC-5	GWC-25	GWC-13	GWC-11	GWC-7
5/3/2017							0.098 (J)		
5/4/2017									
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017	<0.1	0.17 (J)		<0.1	0.089 (J)				0.23
10/4/2017			<0.1					0.16 (J)	
10/5/2017						<0.1	0.1 (J)		
10/6/2017									
1/19/2018									
1/22/2018			<0.1						
1/23/2018	<0.1	0.13 (J)		<0.1	0.085 (J)				0.17 (J)
1/24/2018								0.11 (J)	
1/25/2018						<0.1	0.1 (J)		
1/26/2018									
6/19/2018	<0.1								
6/20/2018		0.18 (J)					0.11 (J)	0.13 (J)	
6/21/2018									
6/25/2018				<0.1	0.097 (J)				0.25
6/26/2018									
6/27/2018			<0.1			<0.1			
9/25/2018				<0.1					
9/26/2018						<0.1			
9/27/2018			<0.1					0.12 (J)	
9/28/2018									
10/1/2018	<0.1								
10/2/2018		0.18 (J)					0.13 (J)		0.25
10/3/2018					0.13 (J)				
1/17/2019									
1/18/2019									
1/21/2019	0.031 (J)								0.22
1/22/2019							0.1 (J)		
1/24/2019			<0.1			<0.1		0.076 (J)	
1/25/2019									
1/28/2019		0.19 (J)							
1/30/2019				0.078 (J)	0.11 (J)				
1/31/2019									
6/24/2019									
6/25/2019			0.047 (J)			0.033 (J)	0.084 (J)		0.21
6/26/2019	0.045 (J)	0.11 (J)		0.059 (J)	0.081 (J)			0.096 (J)	
6/27/2019									
9/9/2019									
9/10/2019									0.28
9/11/2019		0.15				0.039 (J)			
9/12/2019	0.038 (J)		<0.1	0.076 (J)	0.078 (J)		0.065 (J)		
9/16/2019								0.12 (J)	
9/17/2019									
3/10/2020									
3/11/2020	0.035 (J)	0.18 (J)							
3/12/2020						0.032 (J)	0.044 (J)		0.16

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-8	GWC-9	GWC-12	GWC-10	GWC-21	GWC-14	GWC-17	GWC-18
3/22/2016									
3/23/2016									
3/24/2016									
3/28/2016									
3/29/2016	0.0308 (J)	0.0698 (J)	0.0671 (J)	0.1936 (J)					
3/30/2016					1.2013	0.0137 (J)	0.0355 (J)	0.0422 (J)	0.0362 (J)
3/31/2016									
5/19/2016									
5/20/2016									
5/23/2016									
5/24/2016		0.072 (J)	0.06 (J)						
5/25/2016	0.0285 (J)			0.1797 (J)	1.34		0.0265 (J)	0.045 (J)	
5/26/2016						0.014 (J)			0.038 (J)
7/21/2016									
7/22/2016				0.22					
7/25/2016			0.096 (J)						<0.1
7/26/2016		0.092 (J)				<0.1	0.1 (J)		
7/27/2016	<0.1				1.5			<0.1	
9/14/2016									
9/15/2016				0.18 (J)			<0.1		
9/16/2016					1.3				
9/19/2016		<0.1	<0.1					<0.1	<0.1
9/20/2016	<0.1					<0.1			
11/9/2016									
11/10/2016									
11/11/2016									
11/14/2016									
11/15/2016									
11/16/2016		<0.1	<0.1	0.16 (J)					
11/17/2016					0.76	<0.1	<0.1	<0.1	<0.1
11/18/2016	<0.1								
1/17/2017									
1/19/2017									
1/20/2017									
1/24/2017									
1/25/2017									
1/26/2017		<0.1							
1/31/2017			<0.1	0.19 (J)					
2/1/2017					1.3		<0.1	<0.1	<0.1
2/2/2017						<0.1			
2/3/2017	<0.1								
3/16/2017									
3/17/2017									
3/22/2017									
3/23/2017		<0.1	0.12 (J)	0.17 (J)			<0.1		
3/24/2017					1.3			<0.1	<0.1
3/28/2017	<0.1					<0.1			
3/29/2017									
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-8	GWC-9	GWC-12	GWC-10	GWC-21	GWC-14	GWC-17	GWC-18
5/3/2017		<0.1		0.19 (J)	1.1		<0.1	<0.1	<0.1
5/4/2017	<0.1					<0.1			
7/18/2017									
7/19/2017									
8/1/2017									
8/4/2017									
8/24/2017									
10/3/2017			<0.1						
10/4/2017				0.2	1.2		<0.1	<0.1	
10/5/2017	<0.1	0.085 (J)							<0.1
10/6/2017						<0.1			
1/19/2018									
1/22/2018									
1/23/2018									
1/24/2018		<0.1	<0.1	0.16 (J)					
1/25/2018	<0.1				0.75		<0.1	<0.1	<0.1
1/26/2018						<0.1			
6/19/2018									
6/20/2018	<0.1					<0.1	<0.1		
6/21/2018		<0.1	<0.1		0.76				<0.1
6/25/2018									
6/26/2018				0.18 (J)				<0.1	
6/27/2018									
9/25/2018									
9/26/2018		<0.1	0.082 (J)						
9/27/2018					0.59	<0.1			
9/28/2018				0.2					<0.1
10/1/2018	<0.1						0.083 (J)		
10/2/2018								<0.1	
10/3/2018									
1/17/2019									
1/18/2019									
1/21/2019									
1/22/2019		0.062 (J)	0.065 (J)				0.057 (J)		
1/24/2019						<0.1		<0.1	
1/25/2019	<0.1			0.21					
1/28/2019									<0.1
1/30/2019									
1/31/2019					0.78				
6/24/2019									
6/25/2019		0.055 (J)	0.066 (J)			0.032 (J)	0.054 (J)	0.051 (J)	
6/26/2019	0.042 (J)			0.16 (J)	0.68				
6/27/2019									0.046 (J)
9/9/2019									
9/10/2019		0.1 (J)							
9/11/2019				0.17		<0.1		0.043 (J)	0.036 (J)
9/12/2019	0.033 (J)						<0.1		
9/16/2019			0.062 (J)						
9/17/2019					0.29				
3/10/2020									
3/11/2020									
3/12/2020		0.043 (J)							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-23	GWC-8	GWC-9	GWC-12	GWC-10	GWC-21	GWC-14	GWC-17	GWC-18
3/13/2020									
3/16/2020			0.08 (J)						
3/17/2020					0.74		0.046 (J)	<0.1	<0.1
3/18/2020	0.034 (J)			0.058 (J)		0.034 (J)			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
 Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-20	GWC-31	GWC-24	GWC-16	GWC-15	GWC-22	GWA-3 (bg)
5/3/2017	<0.1				<0.1	<0.1	<0.1	
5/4/2017		<0.1		<0.1				
7/18/2017								
7/19/2017			1.6					
8/1/2017								
8/4/2017								
8/24/2017								
10/3/2017								<0.1
10/4/2017						<0.1		
10/5/2017	<0.1			<0.1	<0.1		<0.1	
10/6/2017		<0.1	1.6					
1/19/2018								
1/22/2018								
1/23/2018			1.5					
1/24/2018								
1/25/2018	<0.1			<0.1	<0.1	<0.1	<0.1	
1/26/2018		<0.1						
6/19/2018								
6/20/2018					<0.1	0.093 (J)	<0.1	<0.1
6/21/2018	<0.1	<0.1						
6/25/2018								
6/26/2018								
6/27/2018			1.6	<0.1				
9/25/2018								
9/26/2018								
9/27/2018	<0.1	<0.1						
9/28/2018				<0.1				
10/1/2018					<0.1	0.1 (J)	<0.1	
10/2/2018								
10/3/2018			1.7					
1/17/2019								
1/18/2019								0.028 (J)
1/21/2019								
1/22/2019						0.071 (J)		
1/24/2019							<0.1	
1/25/2019					0.027 (J)			
1/28/2019	<0.1	<0.1						
1/30/2019								
1/31/2019			1.3	<0.1				
6/24/2019								
6/25/2019		0.049 (J)			0.052 (J)	0.068 (J)	0.052 (J)	0.03 (J)
6/26/2019	0.046 (J)		1.3	0.04 (J)				
6/27/2019								
9/9/2019								
9/10/2019							<0.1	
9/11/2019		0.039 (J)		<0.1	0.038 (J)			0.033 (J)
9/12/2019	0.031 (J)							
9/16/2019								
9/17/2019						0.071 (J)		
3/10/2020								0.035 (J)
3/11/2020								
3/12/2020				<0.1				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/15/2020 10:35 AM View: Interwell
Plant Wansley Client: Southern Company Data: Wansley Landfill

	GWC-19	GWC-20	GWC-31	GWC-24	GWC-16	GWC-15	GWC-22	GWA-3 (bg)
3/13/2020								
3/16/2020						0.07 (J)		
3/17/2020			1.2		<0.1			
3/18/2020	0.068 (J)	0.048 (J)					0.056 (J)	

FIGURE H.

Appendix III Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:39 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>
pH, Field (S.U.)	GWA-28 (bg)	-0.107	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-3 (bg)	-0.2964	-34	-25	Yes	9	0	n/a	n/a	0.01	NP

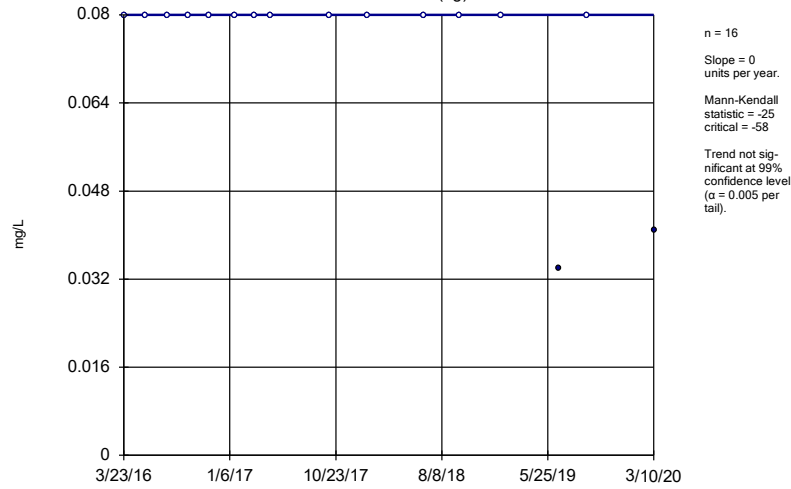
Appendix III Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Landfill Printed 5/15/2020, 10:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GWA-1 (bg)	0	-25	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-28 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-29 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-3 (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-4 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWC-14	0.1328	42	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWC-15	0.00402	22	58	No	16	31.25	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-1 (bg)	0	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.1762	25	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-28 (bg)	-0.009397	-26	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-29 (bg)	-0.07046	-33	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-3 (bg)	3.827	18	25	No	9	11.11	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-4 (bg)	-0.8006	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWC-14	11.5	42	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-1 (bg)	-0.01597	-13	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-2 (bg)	-0.006869	-6	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-28 (bg)	-0.107	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-29 (bg)	-0.03488	-25	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-3 (bg)	-0.2964	-34	-25	Yes	9	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWA-4 (bg)	-0.05368	-30	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	GWC-26	-0.02763	-35	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-1 (bg)	0	5	58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	0.134	32	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-28 (bg)	0.1533	40	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-29 (bg)	-0.5627	-19	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-3 (bg)	-41.89	-22	-25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-4 (bg)	0.2914	35	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-13	0	1	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-17	0.06713	50	58	No	16	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-24	0	-11	-58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-26	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-30	0	-13	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-34	0.04442	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-35	0.01442	13	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWC-6	-0.4809	-21	-58	No	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

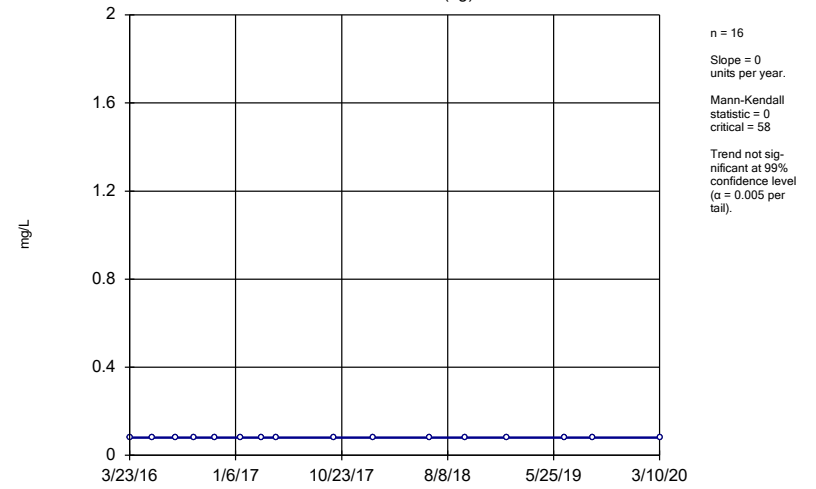
GWA-1 (bg)



Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

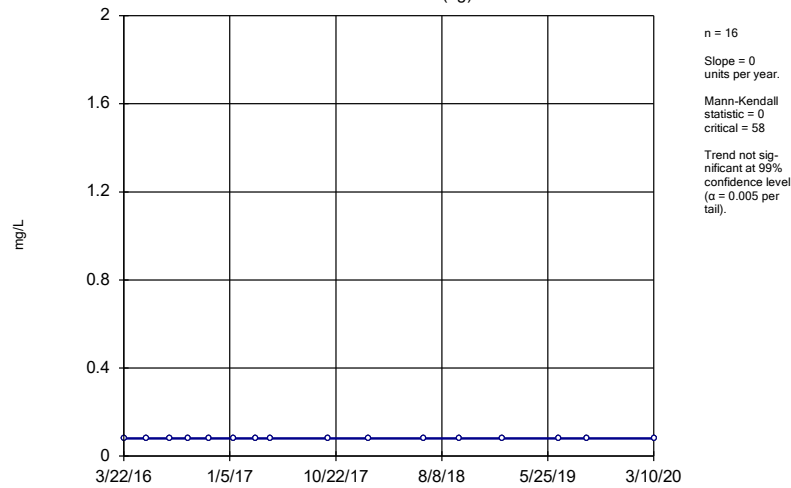
GWA-2 (bg)



Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

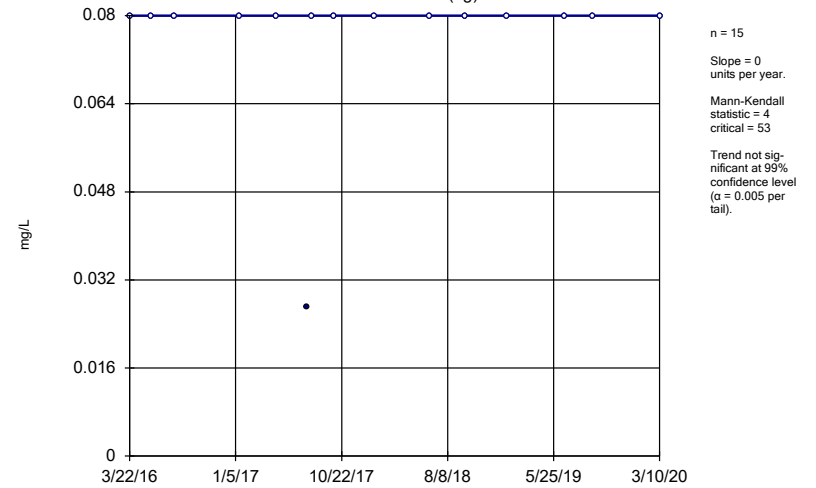
GWA-28 (bg)



Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

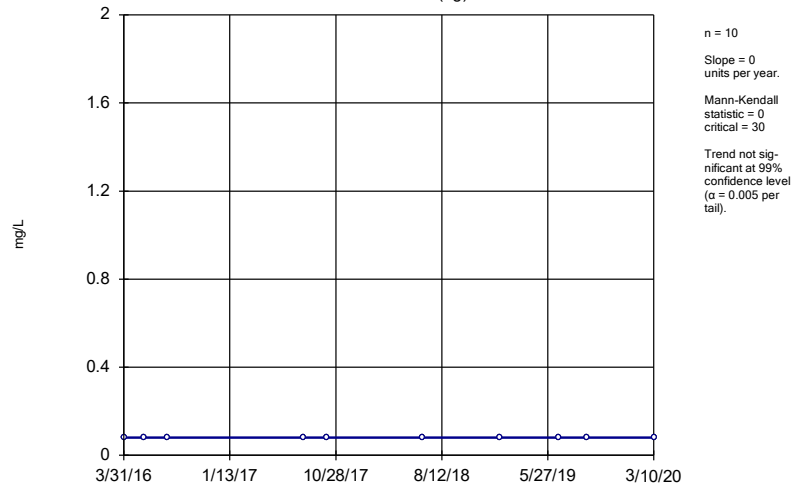
Sen's Slope Estimator

GWA-29 (bg)



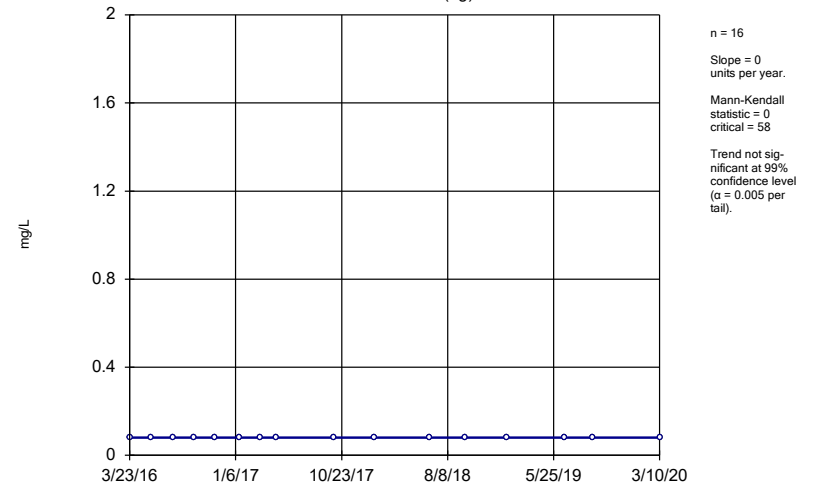
Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-3 (bg)



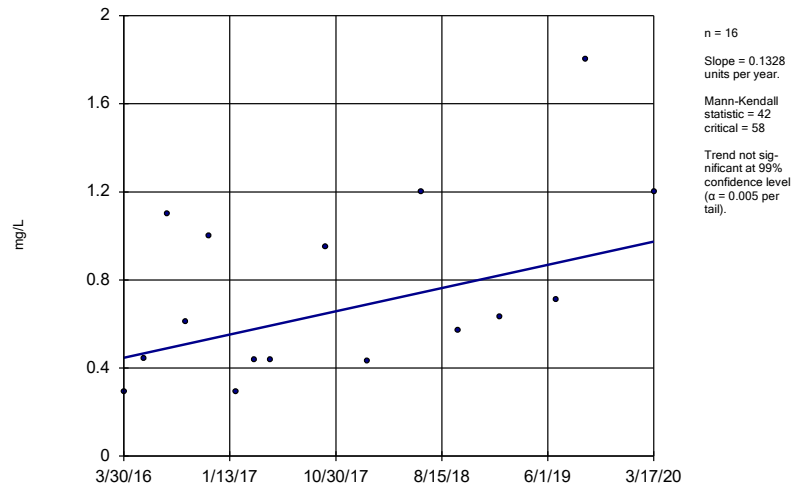
Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-4 (bg)



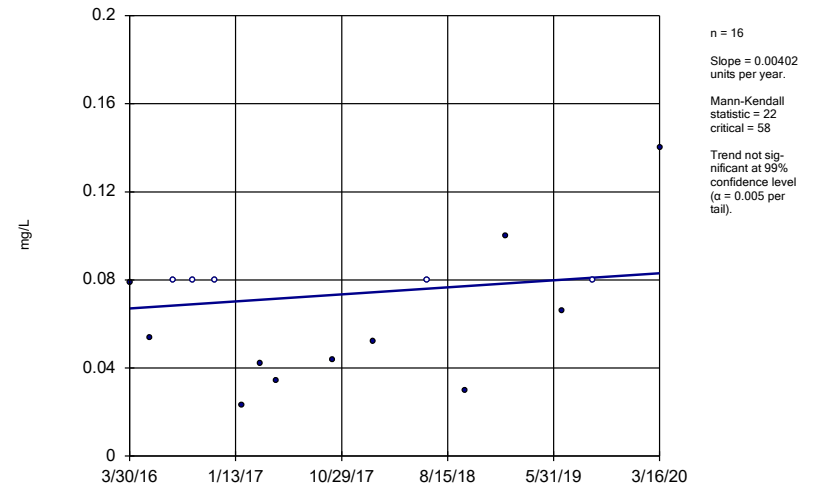
Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-14



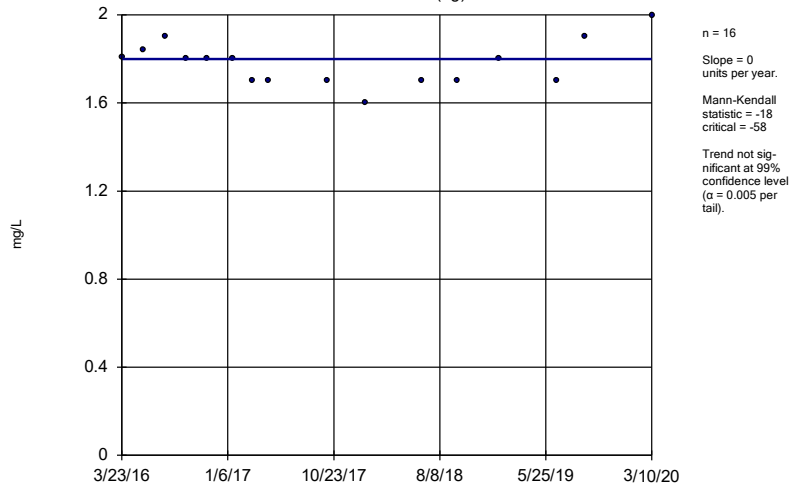
Constituent: Boron, total Analysis Run 5/15/2020 10:36 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-15



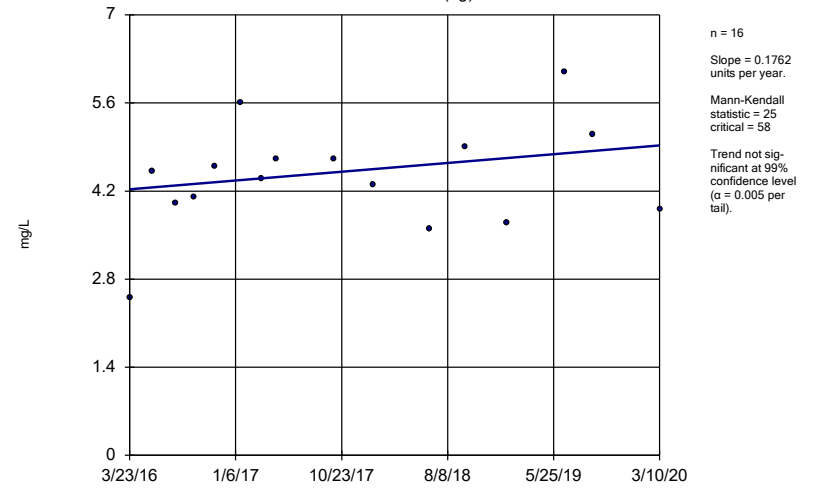
Constituent: Boron, total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-1 (bg)



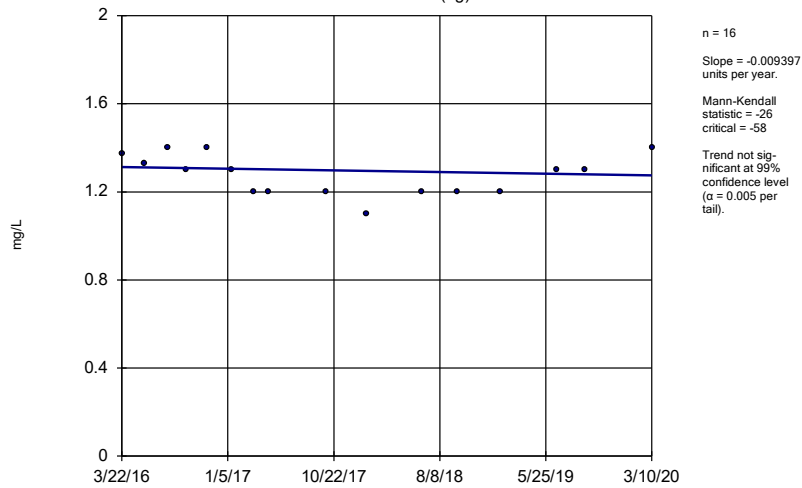
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-2 (bg)



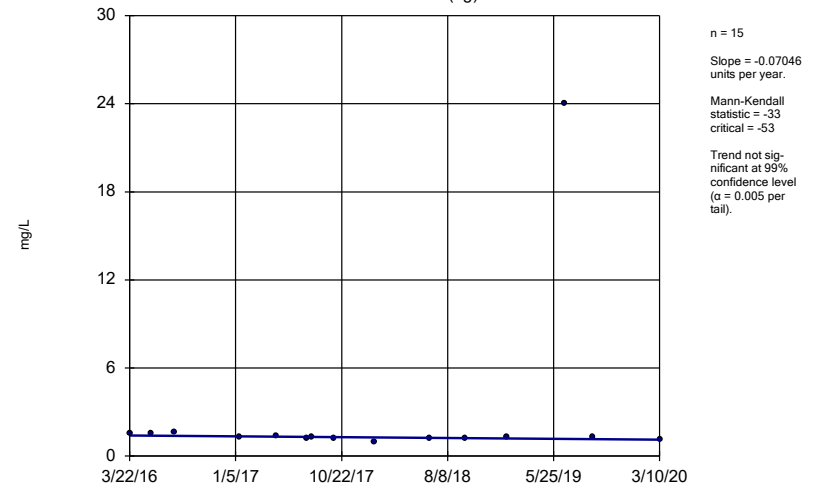
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-28 (bg)



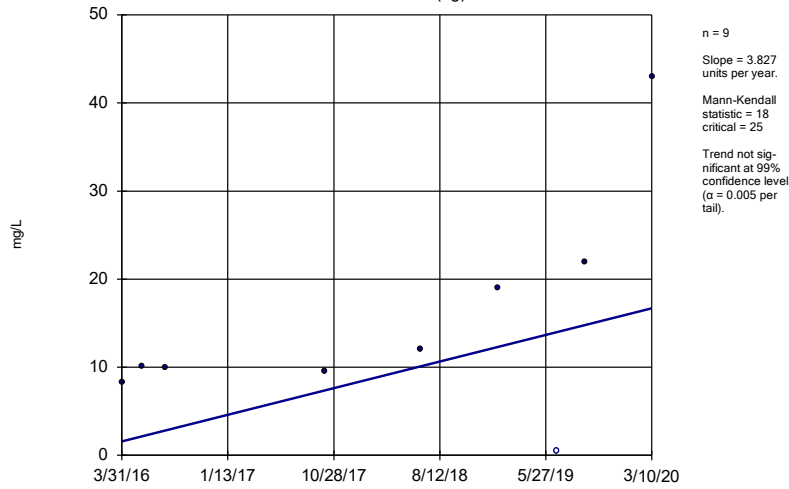
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-29 (bg)



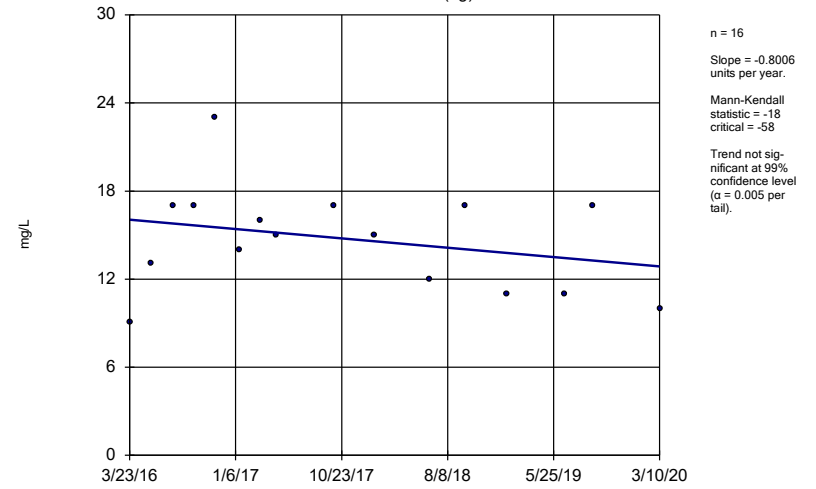
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-3 (bg)



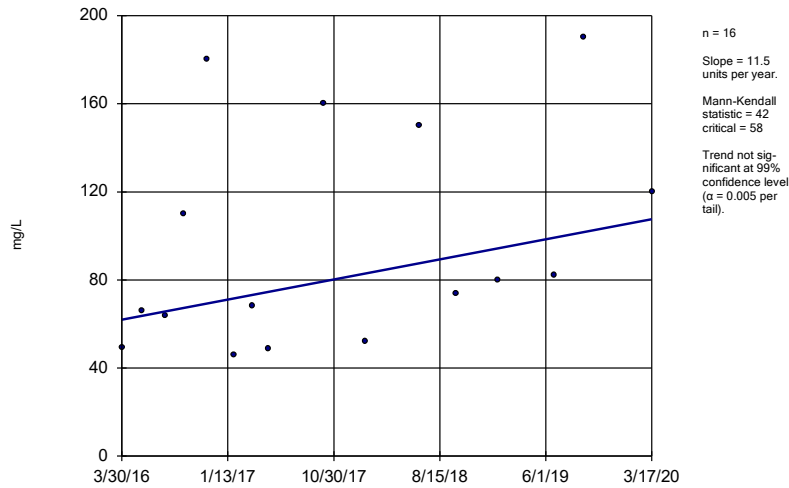
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-4 (bg)



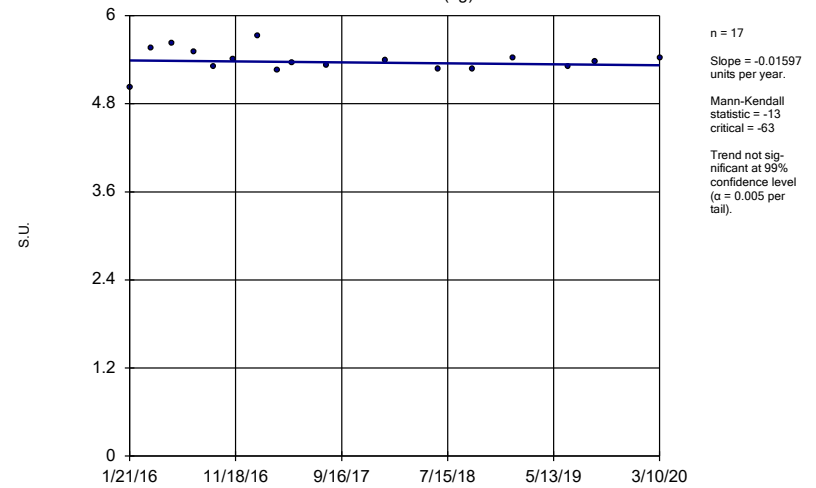
Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-14



Constituent: Chloride, Total Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

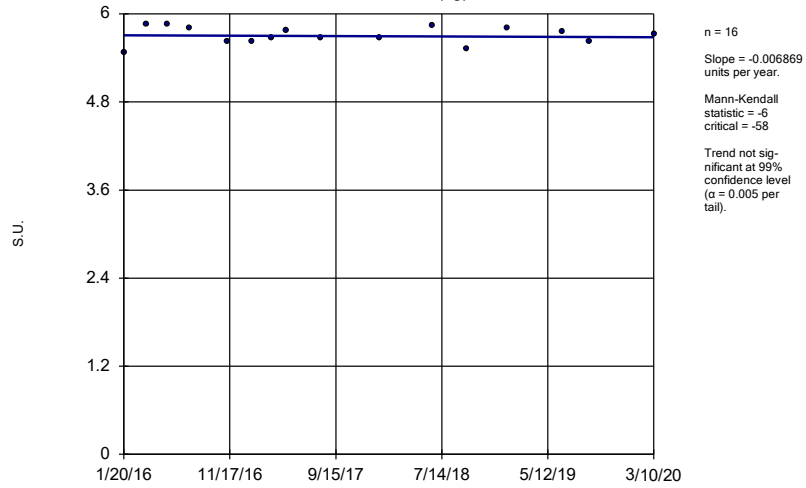
Sen's Slope Estimator
GWA-1 (bg)



Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

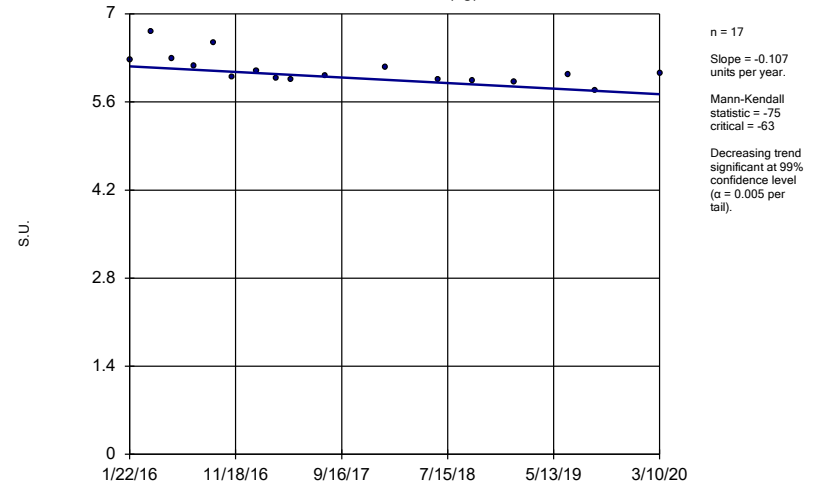
GWA-2 (bg)



Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

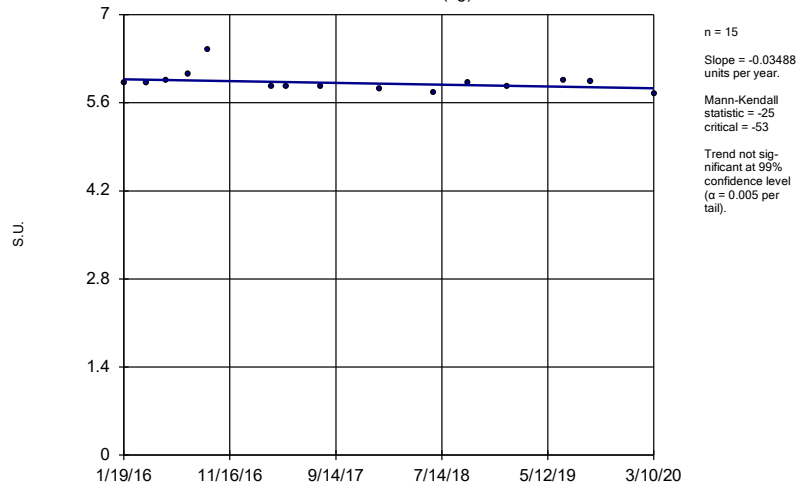
GWA-28 (bg)



Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator

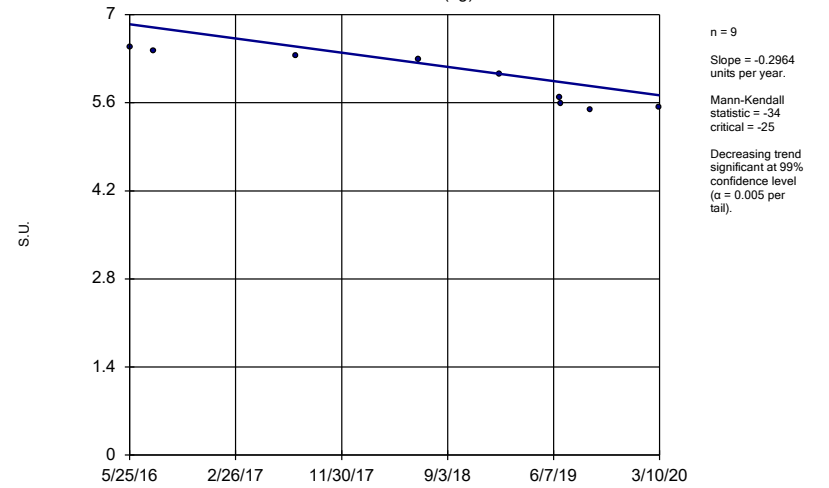
GWA-29 (bg)



Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

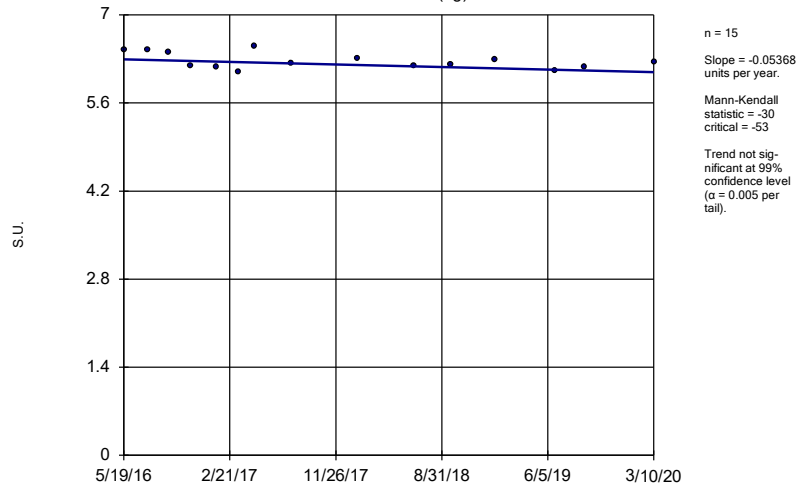
Sen's Slope Estimator

GWA-3 (bg)



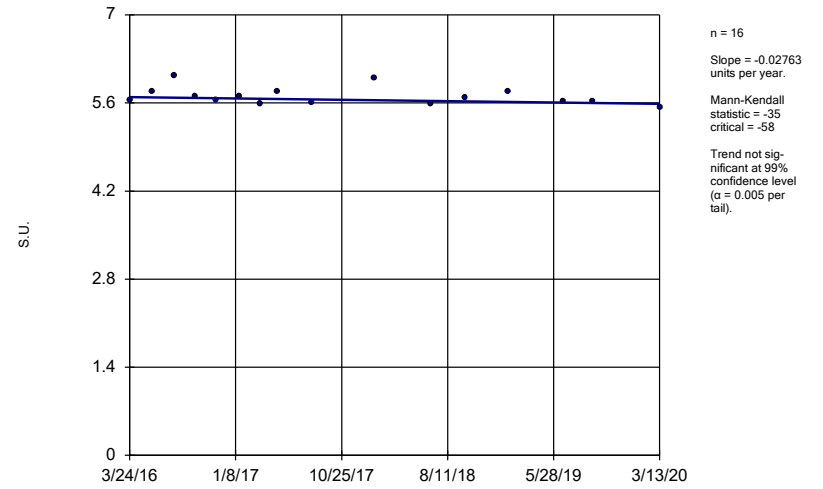
Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-4 (bg)



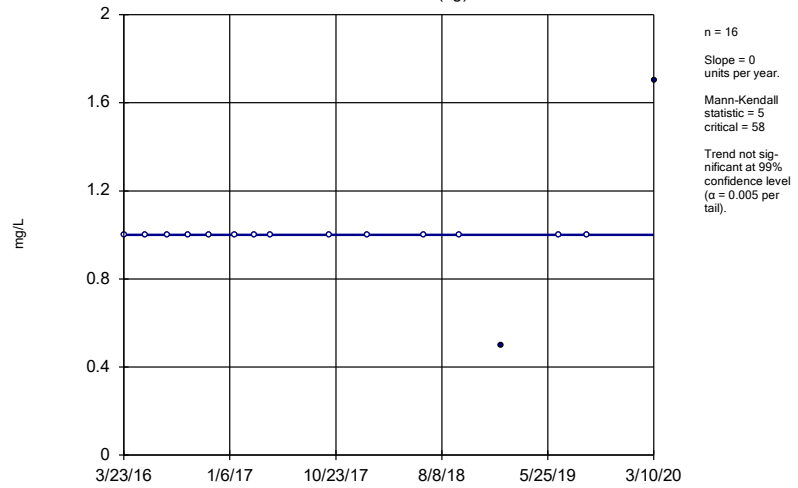
Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-26



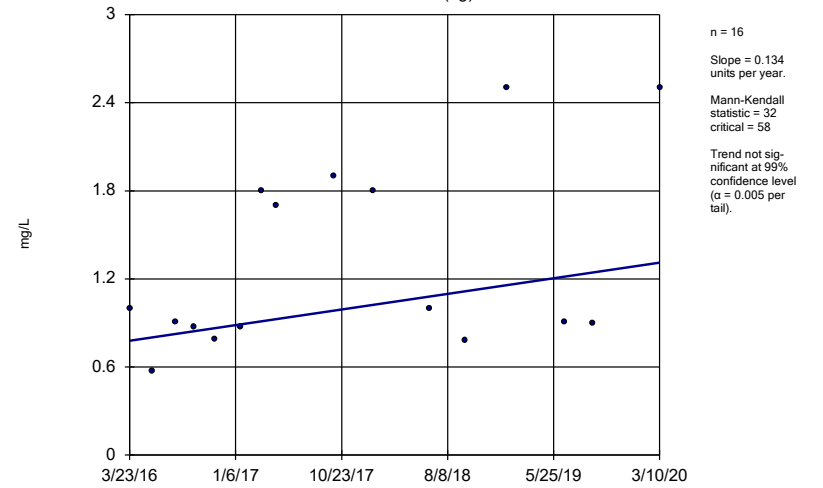
Constituent: pH, Field Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-1 (bg)



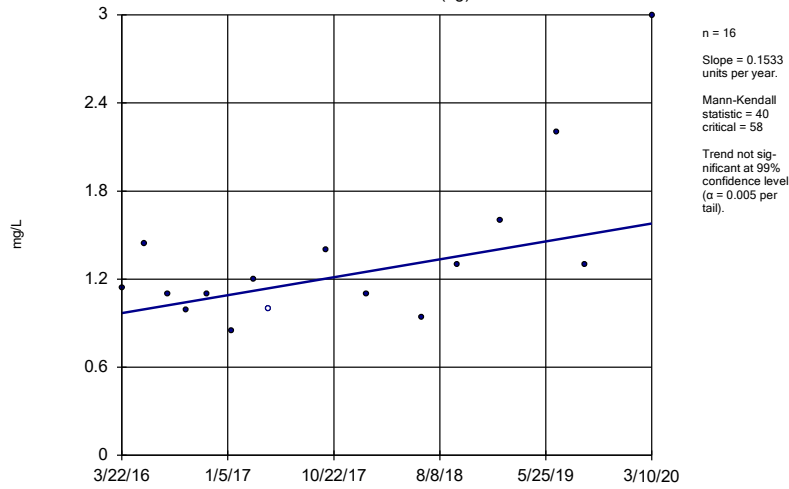
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWA-2 (bg)



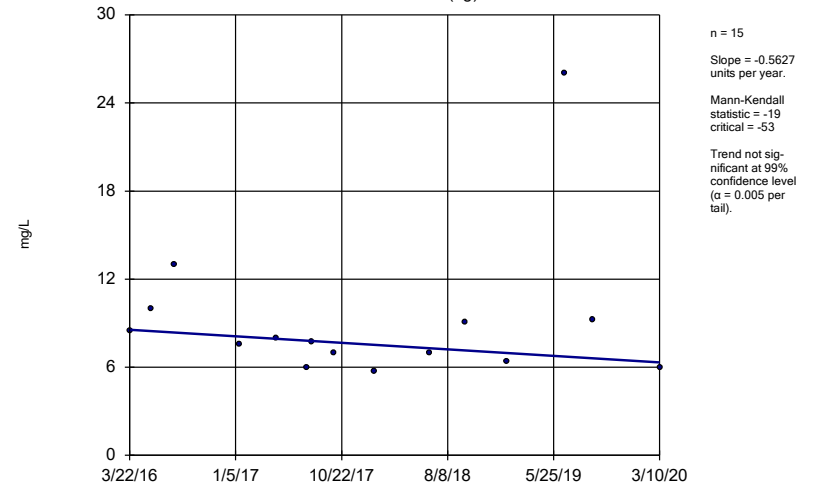
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-28 (bg)



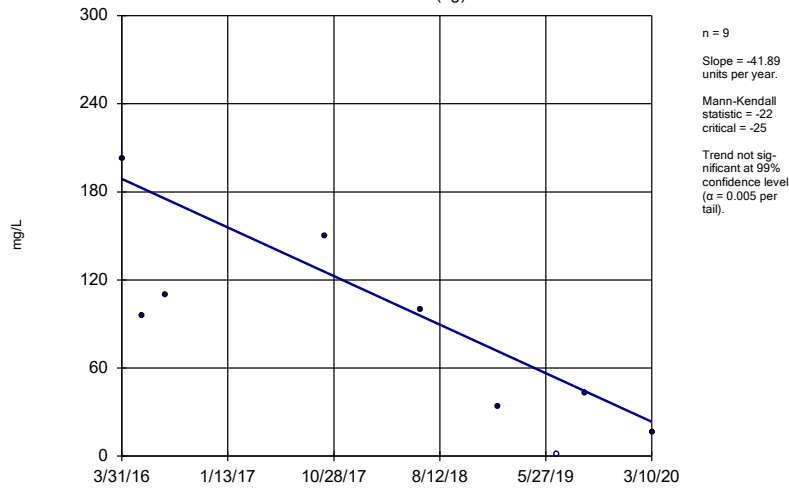
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-29 (bg)



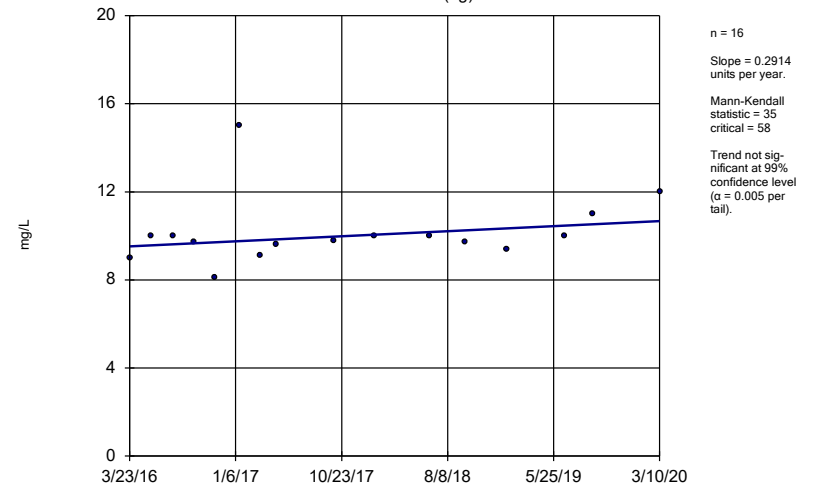
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-3 (bg)



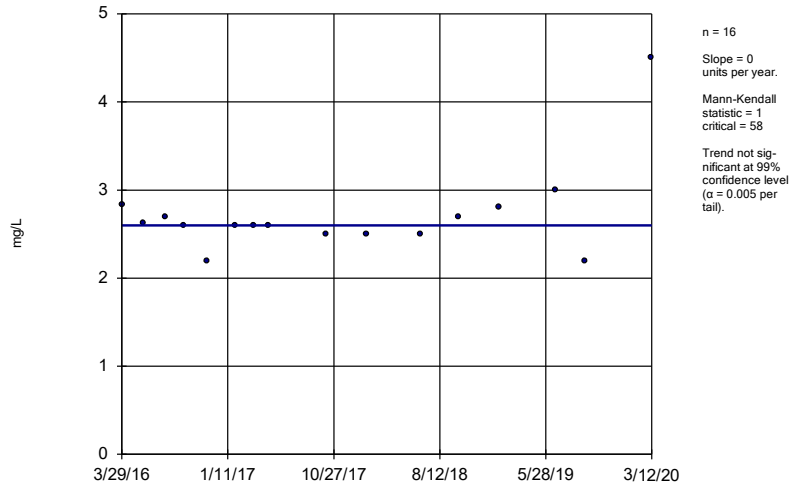
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWA-4 (bg)



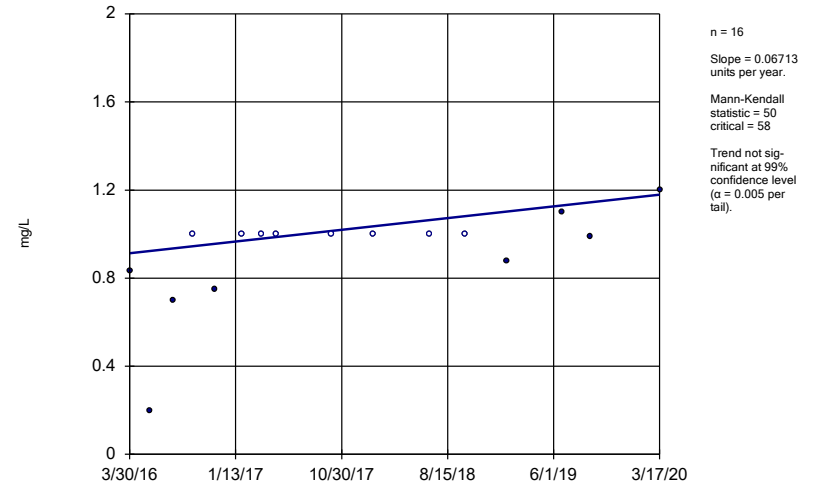
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-13



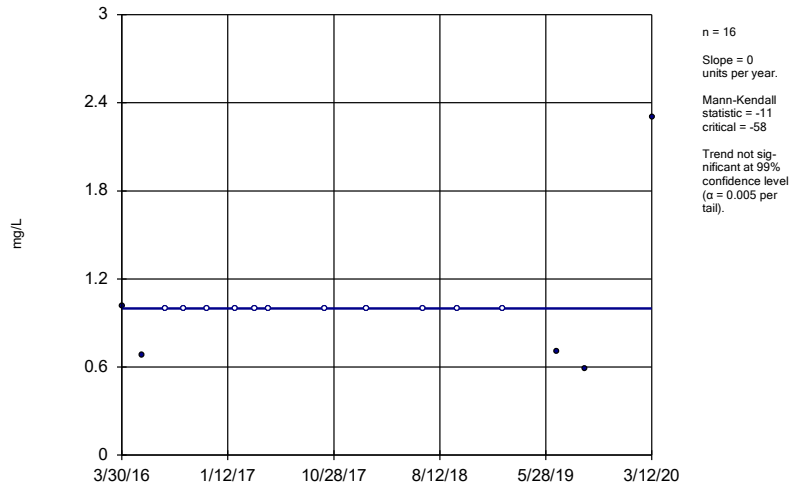
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-17



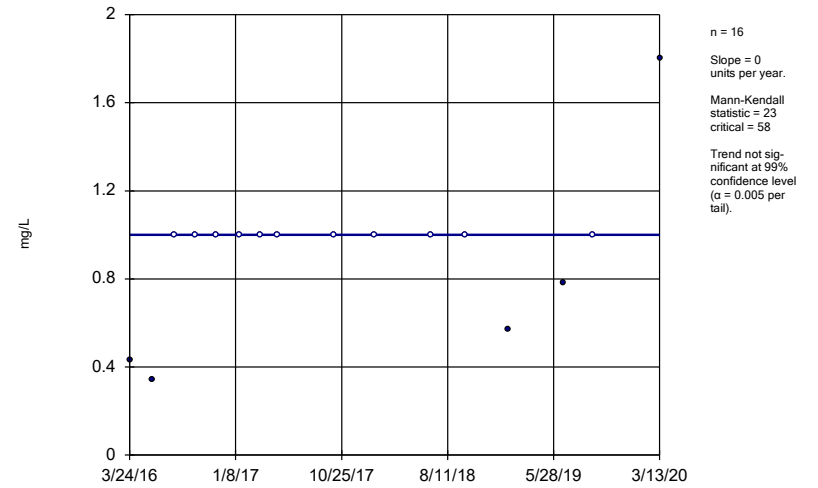
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-24



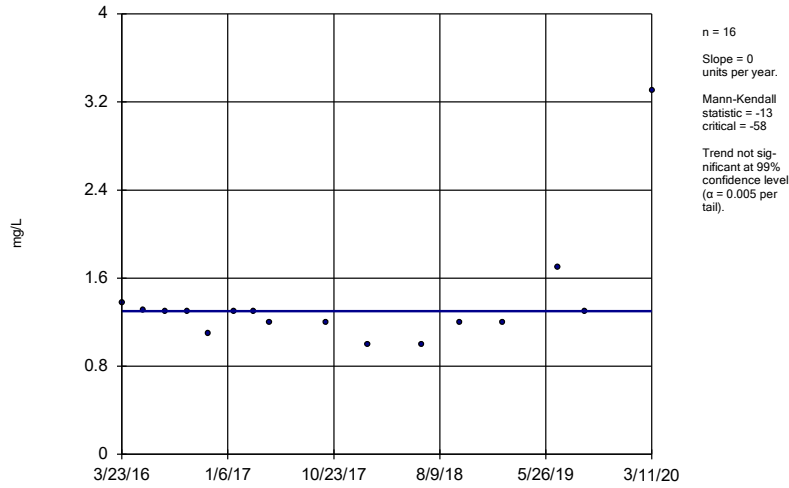
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator
GWC-26



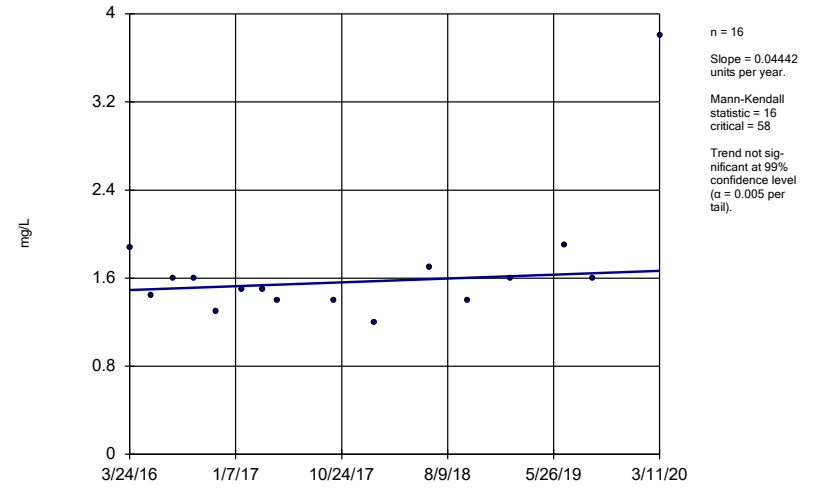
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-30



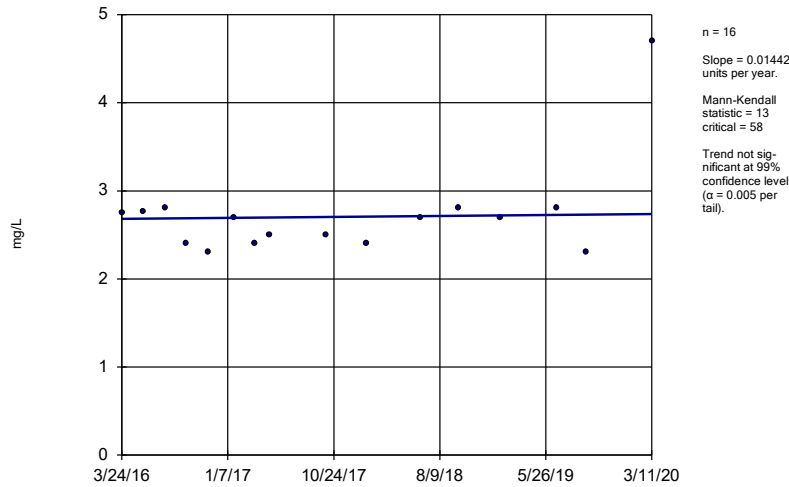
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-34



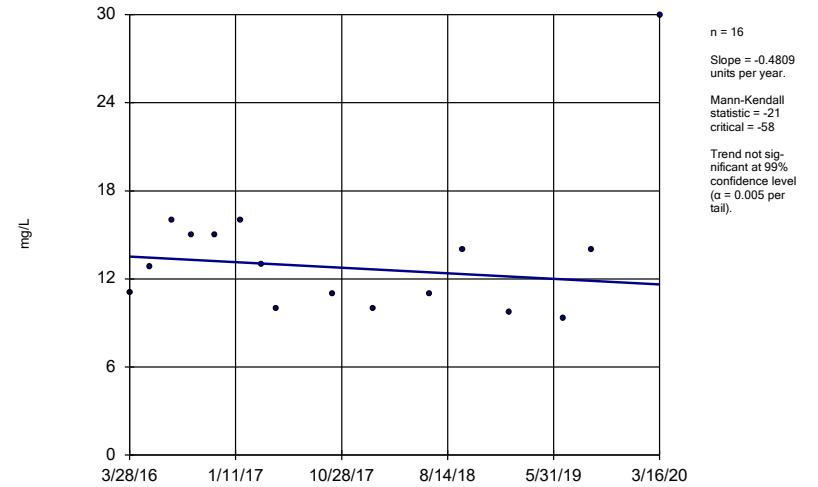
Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-35



Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill

Sen's Slope Estimator GWC-6



Constituent: Sulfate as SO4 Analysis Run 5/15/2020 10:37 AM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Landfill



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